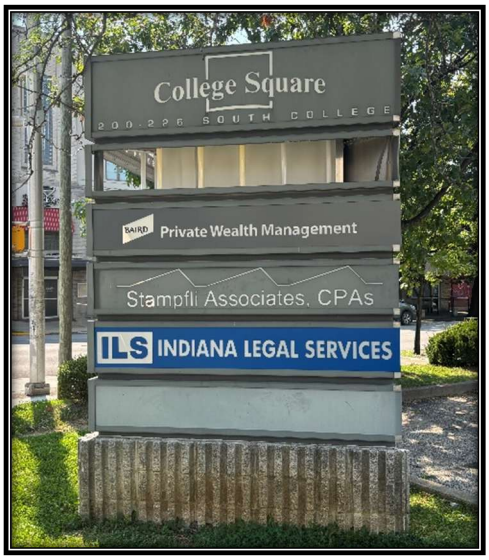
Further Site Investigation

226 South College Avenue
Bloomington, Indiana 47403



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Date:
April 17, 2026

Project Number:
25-183

Further Site Investigation

226 South College Avenue
Bloomington, Indiana 47403

VET ENVIRONMENTAL ENGINEERING, LLC PROJECT NO. 25-183

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1.0 INTRODUCTION

VET Environmental Engineering, LLC (VET) was retained by the City of Bloomington Redevelopment Commission (RDC) to conduct a Further Site Investigation (FSI) for RDC's project located at 226 South College Avenue, Bloomington, Monroe County, Indiana (Site). This FSI presents results of environmental investigations, research, and other information pertaining to the evaluation of environmental conditions at the Site.

The Site is comprised of two land parcels zoned for commercial use. The Site is located on the west side of South College Avenue between West 4th Street and West 3rd Street in Bloomington Township, Bloomington, Monroe County, Indiana (**Exhibit 1**). The Site was previously identified in environmental investigations as 216 South College Avenue and is commonly referred to as College Square. Parcel numbers are included in **Table A** and depicted on **Exhibit 2**.

TABLE A: SITE DETAILS	
Site Acreage	2.0
Source of Acreage Information	Assessor – Property Report Card
Parcel ID Numbers	53-05-33-310-240.000-005 53-05-33-310-243.000-005
Source of Parcel ID Numbers	Assessor – Property Report Card

2.0 SUMMARY OF HISTORICAL INVESTIGATIONS

The Site is currently occupied by a commercial office building. Pursuant to planned redevelopment of the Site, RDC commissioned environmental investigations at the Site as a due diligence measure. VET was retained by RDC to coordinate further investigation, remedy implementation, and ultimately Site closure through the Indiana Finance Authority (IFA) Brownfields Program (Brownfields). Summaries of reports reviewed as a part of this FSI are included in *Section 2.1* through *Section 2.4*.

2.1 Phase I ESA – BCA Environmental Consultants, May 29, 2019

BCA Environmental Consultants (BCA) conducted a Phase I Environmental Site Assessment on behalf of the City of Bloomington Office of Economic & Sustainable Development dated May 29, 2019 (PI-2019, **Attachment 1**). The following recognized environmental conditions (RECs) related to the Site were identified in the PI-2019:

- *"The historical presence of a rail spur on the western portion of the [Site] along with coal storage piles is a REC."*
- *"The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the [Site] from the 1920s through at least the late 1940s with no documentation of proper closure is a REC."*

- *"The historical presence of two (2) battery and ignition service stations in the north-central portion of the [Site] from the 1920s through at least the late 1940s, with no information on the operations that took place. Possible chemical releases associated with the historical battery service stations on site are a REC."*

- *"Vulcanizing activities were reported to historically have been present on the [Site]. These activities are associated with the use of many different chemicals, including potential [volatile organic compounds (VOCs)], [polycyclic aromatic hydrocarbons (PAHs)], and metals. As such, this is a REC."*

- *"The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site is a REC."*

- *"Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street) – [the] historical use of this property, adjoining the [Site] to the west across the B-Line Trail, as a manufactured gas plant site, is a REC, especially since it is directly upgradient from the [Site] with respect to measured groundwater flow direction."*

The PI-2019 also identified several de minimis conditions associated with the Site. Based on the conclusions of the PI-2019, BCA recommended performing soil and groundwater investigation at the Site to evaluate whether impacts exist from the RECs identified.

2.2 Phase II Environmental Site Investigation – BCA Environmental Consultants, July 3, 2019

BCA conducted a Phase II Environmental Site Assessment in 2019 (PII-2019) (**Attachment 2**) to address recognized environmental conditions (RECs) from PI-2019. The PII-2019 was performed on behalf of City of Bloomington Office of Economic & Sustainable Development. A geophysical survey was performed prior to drilling activities, during which potential buried utilities, subsurface anomalies, and the suspected former UST locations were marked with paint. Five soil borings were advanced on May 16, 2019 (SP-1 through SP-5). The locations of the BCA PII-2019 investigative points are depicted on **Exhibits 4** and **5** of this FSI.

Nine soil samples were analyzed for VOCs, 12 soil samples were analyzed for PAHs, and 11 soil samples were analyzed for a list of 14 metals. Six additional soil samples were submitted for analysis of arsenic following receipt of initial metals results. Four groundwater samples were analyzed for VOCs, PAHs, and the list of 14 metals. Three of the groundwater samples were submitted for analysis of hexavalent chromium. Based on the initial groundwater results, one field filtered sample was analyzed for arsenic, and one field filtered sample was analyzed for lead and arsenic.

Bedrock beneath the Site was encountered between approximately 8.2 and 18.8 feet below ground surface (bgs). BCA concluded that based on groundwater elevation data collected during the PII-2019, groundwater flow direction was to the east. However, based on readily available data for adjoining sites and topographic contours in the vicinity of the Site, groundwater flow is likely to be to the south-southeast.

Analytical results were compared to IDEM screening criteria available at the time in accordance with the 2012 Remediation Closure Guide (RCG). Benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, arsenic, and thallium identified in soil above the RCG screening levels (SLs) published at the time. IDEM since revised the RCG. The concentrations of benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene in soil identified during the PII-2019 are below the current applicable Risk-based Closure Guide (R2) IDEM published levels (PLs). The concentrations of arsenic and thallium in soil identified during the PII-2019 exceed the current Long-Term Residential PLs. Benzene, 1-methylnaphthalene, naphthalene, arsenic, and lead were identified in groundwater above the RCG SLs published at the time. Concentrations of benzene, 1-methylnaphthalene, naphthalene, arsenic, and lead in groundwater identified in the PII-2019 exceed the current Long-Term Residential PLs.

VOC and PAH concentrations in soil and groundwater were highest in the vicinity of the historic USTs. Metals impacts were identified throughout the Site in soil. However, metals concentrations in groundwater were primarily identified on the eastern portion of the Site. Based on the results of the PII-2019, BCA recommended further investigation of petroleum constituents identified at the Site, and to employ land-use restrictions to eliminate exposure pathways to contamination identified at the Site.

2.3 Phase I ESA – BCA Environmental Consultants, May 31, 2023

BCA prepared a Phase I ESA for the Site dated May 31, 2023 (PI-2023) on behalf of the City of Bloomington Redevelopment Commission (**Attachment 3**). The PI-2023 identified the following RECs and vapor encroachment conditions (VECs) associated with the Site:

- *"The detection of elevated concentrations of petroleum related compounds in the soil and groundwater at the [Site] during the Phase II ESA in 2019 is a REC and a VEC."*
- *"The historical utilization of the [Site] as a gasoline filling station that operated on the [Site] with multiple gasoline tanks from the 1920s through at least the late 1950s with no documentation of proper closure is a REC and a VEC."*
- *"The historical presence of a battery and ignition service station on the [Site] in the late 1940s, with no information of the operations is a REC."*

The PI-2023 also identified several de minimis conditions related to the Site. BCA recommended further investigation at the Site to address the RECs and VECs identified in the PI-2023.

2.4 Phase II Environmental Site Investigation – BCA Environmental Consultants, September 30, 2024

BCA prepared a Supplemental PII-ESA at the Site dated September 30, 2024 (SPII-2024) on behalf of the Bloomington Redevelopment Commission (**Attachment 4**) to investigate the RECs identified in the PI-2023. A limited geophysical study was performed prior to drilling activities to identify potential buried utilities, subsurface anomalies, and to attempt to locate possible USTs. No evidence of USTs was reported based on the results of the limited geophysical study.

Seven soil borings were advanced on July 10, 2024 (SP-3R, and SP-6 through SP-11). The locations of the BCA SPII-2024 investigative points are depicted on **Exhibits 4** and **5** of this FSI. Eight soil samples were collected and analyzed for VOCs, and 12 soil samples were collected and analyzed for PAHs. Five groundwater samples were analyzed for VOCs and PAHs, and six groundwater samples were analyzed for arsenic and lead. Bedrock beneath the Site was encountered between approximately 10 and 18 feet bgs. BCA concluded that local groundwater flow direction is to the south or southeast, however a Site-specific groundwater flow direction based on data obtained during the PII-2024 is not provided. Analytical results were compared to 2024 R2 PLs. No concentrations of VOCs or PAHs in soil exceeded the R2 PLs. Benzene, 1-methylnaphthalene, naphthalene, arsenic, and lead concentrations identified in groundwater exceeded the Long-Term Residential PLs.

Based on the results of the PII-2019, BCA concluded that soil impacts are concentrated between depths of approximately six feet and 12 feet on the northeastern portion of the Site in the location of the former filling station and associated USTs. BCA concluded that benzene and PAH impacts in shallow groundwater at the Site are likely attributable to a petroleum source associated with the historical filling station and USTs. BCA concluded that the levels of arsenic and lead in groundwater may be attributable to sediment in the filtered samples, however the historical use of the Site as a filling station may also have contributed to elevated metals concentrations in shallow groundwater.

Based on evaluation of analytical results from the PII-2019 and PII-2024, BCA recommended mitigating potential exposure to contaminated soil at the Site via institutional controls, establishment of an IDEM-approved Site average for constituents identified, or removal of impacted soil. BCA recommended implementing institutional controls to mitigate exposure to impacted groundwater at the Site, as groundwater is not used for consumptive purposes at the Site.

In addition to the recommended controls to mitigate exposure to identified contaminants, BCA recommended *"further investigation to delineate petroleum impacts in soil and groundwater; further investigation to confirm the groundwater metal impacts detected at SP-10 and SP-11 are in dissolved or mobile phase; if future land use includes a building on the northeast corner of the [Site], conduct a limited soil gas survey in that area; [and] in lieu of further investigation, develop a plan for Site remediation. Remediate impacts or restrict future land use through an Environmental Restrictive Covenant (ERC) with a Soil Management Plan (SMP) (or another administrative tool) to eliminate potential exposure pathways to impacted soil and groundwater."*

3.0 RESPONSE TO COMMENTS

VET was retained by RDC coordinate further investigation, remedy implementation, and ultimately Site closure with Brownfields. VET submitted the above-referenced historical reports for review by Brownfields. Brownfields issued informal comments via email regarding activities at the Site on November 24, 2025. VET's responses to IFA's comments are detailed below:

In the September 2024 Supplemental Phase II ESA the following were recommended by BCA, which the Program agrees with:

1. *Further investigation to delineate petroleum impacts in groundwater.*

   Response: Understood. VET performed the FSI to further delineate groundwater impacts at the Site.

2. *Further investigation to confirm the groundwater metal impacts detected at SP-10 and SP-11 are in a dissolved phase.*

   Response: Understood. VET's FSI included analysis of lead and arsenic in groundwater samples. Groundwater samples submitted for metals analysis were field filtered to obtain data representative of dissolved-phase contaminants in groundwater.

3. *If future land use includes a building on the northeast corner of the Site, conduct a limited soil gas survey in that area.*

   Response: VET planned to conduct a limited soil gas survey as part of the FSI activities. VET encountered evidence that USTs may still be present in the subsurface during FSI activities. Based on conversations with RDC, VET is developing a remediation plan for the Site that will include removal of soil and any USTs, if present, on the northeast portion of the Site. As such, a soil gas survey was determined to be pre-emptive based on the planned remediation at the Site.

The Program comments on and requests the following:

4. *Include depths to groundwater for which groundwater samples were collected in future reports. Including an updated version of the September 2024 Phase II ESA with depths to groundwater would also be beneficial.*

   Response: VET recorded depths to groundwater on the FSI soil boring logs included in **Attachment 6**. Groundwater flow direction based on data obtained during the FSI is depicted on **Exhibit 5**.

5. *Petroleum release related chemicals (RRCs) in soil are delineated. 1-methynaphthalene is not a risk driver and given the depths at which it remains detected in soil above its R2 RSPL during the July 2024 sampling event, I do not foresee the need for a soil restriction and/or soil management plan at this time, unless future data suggest otherwise.*

   Response: Understood.

6. *Groundwater impacts need further delineation. A site-specific groundwater flow direction has yet to be provided. The additional proposed investigation needs to provide a potentiometric surface map that clearly provides a groundwater flow direction. This information is needed to characterize contamination at the Site and its extent and to determine potential ERC(s). The Program infers groundwater flow is to the south.*

   Response: VET recorded depths to groundwater on the FSI soil boring logs included in **Attachment 6**. Groundwater flow direction based on data obtained during the FSI is depicted on **Exhibit 5**.

4.0 FURTHER SITE INVESTIGATION ACTIVITIES

VET was retained by RDC to conduct this FSI to address comments issued by IFA discussed in *Section 3.0* of this report. A utility locate request was submitted prior to commencement of FSI activities. VET representatives Ms. Sara Hamidovic, MS, PE, CHMM, CPESC and Ms. Mia Keller conducted FSI activities at the Site on February 23, 2026. VET's FSI activities were uninhibited by weather conditions.

4.1 Soil Sampling Rationale, Methodology, and Protocols

VET and personnel with Strata Environmental Contractors, LLC (Strata), the drilling subcontractor, advanced five soil borings (VB-1 through VB-5) at the Site on February 23, 2026 utilizing a track-mounted Geoprobe® 7822DT direct push technology (DPT) drill rig. Concrete refusal was encountered at three attempted boring locations in the vicinity of VB-4 (VB-4A through VB-4C). Concrete refusal was also encountered at two attempted boring locations in the vicinity of VB-5 (VB-5A and VB-5B). Soil cores were collected continuously, visualized, and logged by Ms. Hamidovic. Soil samples collected during field sampling activities were classified in the field in accordance with the Unified Soil Classification System (USCS). Soil boring logs with soil classification, color (identified with Munsell Color Chart), moisture, and conditions including the presence of staining and atypical odors are included in **Attachment 6**. Based on Site conditions identified during the FSI, VET submitted a report to the IDEM Spill Response Hotline that the historic USTs may still be present in the subsurface.

Sample depth intervals within each boring were selected as an expected worst-case scenario based upon a combination of visual, olfactory, and field screening observations. Field screening was conducted with a PID by exposing soil from specified depth intervals placed in dedicated Ziplock bags to segregate depth intervals. Following field screening activities, media was transferred to laboratory-supplied sampling jars. Field screening results are recorded on soil boring logs (**Attachment 6**).

Soil boring locations were selected to provide soil and groundwater data representative of the areas of concern on the Site. Soil boring VB-1 was advanced at the far northeast corner of the Site along the eastern Site boundary. VB-1 was advanced to the northeast of the northernmost suspect UST location that is the presumed contaminant source. Soil boring VB-1 was advanced in a location

intended to further delineate soil and groundwater impacts at the Site related to the on-Site source. VB-1 was advanced to an approximate depth of 12 feet bgs and was terminated on the weathered limestone bedrock interface. A soil sample was collected from the 10-foot to 12-foot depth interval (VB-1 (10'-12')) due to the presence of a strong petroleum odor and saturated soil conditions. A duplicate sample (VB-DUP-1) was collected from the 10-foot to 12-foot depth interval. A temporary monitoring well was installed at VB-1 (MW-1) on February 23, 2026. A groundwater sample was collected on February 23, 2026. Discussion of groundwater sampling methodology is included in **Section 4.2**.

Soil boring VB-2 was advanced along the eastern Site boundary to the south of the southernmost suspect UST location. Soil boring VB-2 was advanced in a location intended to further delineate soil and groundwater impacts at the Site related to the on-Site source. VB-2 was advanced to an approximate depth of 16 feet bgs and was terminated on the weathered limestone bedrock interface. A soil sample was collected from the 10-foot to 12-foot depth interval (VB-2 (10'-12')) due to the presence of a petroleum odor and saturated soil conditions. A minor petroleum odor was also identified at the weathered limestone bedrock interface at the 15' – 16' depth interval. A temporary monitoring well was installed at VB-2 (MW-2) on February 23, 2026. A groundwater sample was collected on February 23, 2026. Discussion of groundwater sampling methodology is included in **Section 4.2**.

Soil boring VB-3 was advanced on the northeast portion of the Site, to the west of the suspect UST locations. Soil boring VB-3 was advanced in a location intended to further delineate soil and groundwater impacts at the Site related to the on-Site source. VB-3 was advanced to an approximate depth of 11.5 feet bgs and was terminated on the weathered limestone bedrock interface. A soil sample was collected from the 10-foot to 11.5-foot depth interval (VB-3 (10'-11.5')) due to the presence of a petroleum odor and saturated soil conditions. A temporary monitoring well was installed at VB-3 (MW-3) on February 23, 2026. A groundwater sample was collected on February 23, 2026. Discussion of groundwater sampling methodology is included in **Section 4.2**.

Soil boring VB-4 was advanced on the southeast corner of the Site. VET attempted soil boring and encountered concrete refusal in three locations (VB-4A through VB-4C) prior to encountering suitable drilling conditions at VB-4. Soil boring VB-4 was advanced in a location intended to further delineate soil and groundwater impacts at the Site related to the on-Site source. VB-4 was advanced to an approximate depth of 16 feet bgs and was terminated due to an obstruction in the subsurface that deflected the Geoprobe tooling equipment. A soil sample was collected from the 10-foot to 12-foot depth interval (VB-4 (10'-12')) due to the presence of saturated soil conditions. A temporary monitoring well was installed at VB-4 (MW-4) on February 23, 2026. A groundwater sample was collected on February 23, 2026. Discussion of groundwater sampling methodology is included in **Section 4.2**.

Soil boring VB-5 was advanced on the southwest corner of the Site. VET attempted soil boring and encountered concrete refusal in two locations (VB-5A and VB-5B) prior to encountering suitable drilling conditions at VB-5. Soil boring VB-5 was advanced in a location intended to further delineate soil and groundwater impacts at the Site. Soil boring VB-5 was advanced in a location expected to be downgradient with respect to groundwater flow from the former Indiana Gas Plant and the historic on-Site coal and lime storage areas. VB-5 was advanced to an approximate depth of nine feet bgs and was terminated at the weathered limestone bedrock surface. A soil sample was collected from the six-foot to eight-foot depth interval (VB-5 (6'-8')) due to the presence of saturated soil conditions. A temporary

monitoring well was installed at VB-5 (MW-5) on February 23, 2026. MW-5 was dry throughout the duration of investigative activities on February 23, 2026, therefore no groundwater sample was collected.

VOC samples were collected first to minimize the loss of VOCs to the atmosphere through volatilization. Surface soil samples were collected utilizing Method 5035 for VOCs and traditional methodology for the balance of the parameters. Method 5035 samples were collected by advancing 5g Terra Core samplers directly into the soil to be sampled and placing individual aliquots directly into laboratory-supplied (one Methanol preserved and two unpreserved) 40mL vials.

Soil jars (moisture and balance of parameters) were filled by placing soil directly into laboratory-supplied, certified clean, glass soil jars. VET used new, dedicated disposable equipment for all samples collected. New nitrile gloves were donned for each sample. Non-dedicated equipment was decontaminated between samples utilizing an Alconox detergent and tap water rinse in a stainless-steel wash bucket. All disposable equipment was discarded at the completion of each sampling point and replaced with fresh equipment.

Soil samples were subsequently packed in iced coolers and shipped via FedEx to Test America Laboratories in Tinley Park, Illinois under strict chain of custody documentation. One trip blank and matrix spike and matrix spike duplicate (MS/MSD) were submitted with the soil samples shipped to Test America on February 23, 2026. All soil samples were analyzed for the following constituent groups under each respective USEPA method of analysis:

TABLE B. SOIL ANALYTICAL PARAMETERS		
Parameter	**Abbreviation**	**Method**
Volatile Organic Compounds to include lead scavengers	VOCs	USEPA 8260D
Polycyclic Aromatic Hydrocarbons	PAHs	USEPA 8270E
Lead and Arsenic	Pb and As	USEPA 6010D

4.2 Groundwater Sampling Rationale, Methodology, and Protocols

A total of five temporary monitoring wells were installed at the Site (MW-1 through MW-5) on February 23, 2026. The temporary wells were co-located with soil borings VB-1 through VB-5, respectively. Temporary wells were constructed by installing clean, 0.1-inch slotted polyvinyl chloride (PVC) screens, and 1-inch PVC riser pipes to the base of the soil borings. Screen lengths were selected based on depth to water and were generally installed across the saturated-unsaturated soil interface based on visual observations of the moisture content of the extracted soil.

Wells were installed and allowed time to equilibrate with normal air pressure prior to performing initial water elevation measurements. Depth to groundwater was determined using a QED Model MP30 Micropurge© Drawdown/Water Level Meter. The water level probe and groundwater-exposed measurement tape were decontaminated with an Alconox solution followed by a tap water rinse between each water level measurement. VET collected depth to water level measurements from the north side of each temporary monitoring well. Depth to water (from top of casing) was recorded at each well and used to calculate groundwater elevations (**Attachment 6**).

Groundwater sample collection was attempted at all temporary monitoring wells. Groundwater was not encountered at MW-5, therefore no sample was collected in this location. Groundwater sampling was conducted utilizing best practical methods to minimize disturbance and obtain

representative groundwater samples. Groundwater was collected utilizing dedicated ¼" low-density polyethylene (LDPE) tubing lowered into each well. LDPE tubing was affixed to a short, dedicated section of nylon tubing connected to a GeoTech peristaltic pump. The peristaltic pump was set to a low flow rate of approximately 500 milliliters per minute (mL/min) to minimize agitation of samples collected from temporary piezometers.

Sampling groundwater from temporary wells can be problematic in the presence of silty soils where soil particles are suspended in the water column. The presence of suspended sediment can cause metals results in laboratory analysis to be biased high. These results are at least partially attributable to metals associated with suspended particles and are not fully representative of metals dissolved in the groundwater. As this is a known challenge and in presence of suspended sediment content on this Site, VET submitted filtered groundwater samples from each temporary well for laboratory analysis. Groundwater samples were analyzed for VOCs, PAHs, lead, and arsenic.

Groundwater samples were collected in clean, laboratory-supplied containers directly from the dedicated nylon tubing affixed to the dedicated LDPE tubing extended into the well. Groundwater samples analyzed for lead and arsenic were field filtered using the peristaltic pump and dedicated 0.45-micron (µm) filters. Metals samples were field filtered to reduce suspended sediment present in the sample.

Temporary wells were abandoned subsequent to sample collection by extracting the PVC risers and slotted well screens and pouring bentonite chips into the soil boring cavity. Groundwater samples were collected in clean, laboratory-supplied containers and shipped to Eurofins Laboratory for analysis of the parameters listed in **Table C**.

TABLE C. GROUNDWATER ANALYTICAL PARAMETERS

Parameter	Abbreviation	Method
Volatile Organic Compounds	VOCs	USEPA 8260D
Polycyclic Aromatic Hydrocarbons	PAHs	USEPA 8270E
Lead and Arsenic	Pb and As	USEPA 6010D

5.0 ANALYTICAL RESULTS

Soil laboratory analytical results are tabulated in **Table 1**. Groundwater analytical results are tabulated in **Table 2**. The Level II analytical reports are included in **Attachment 6**. The Level IV QA/QC reports are available upon request. Analytical results are compared to 2025 IDEM Risk-Based Closure Guide (R2) Published Levels (PLs). 2026 PLs were not published as of the date of this writing. IDEM R2 PLs represent concentrations of chemicals in soil, groundwater, or vapor that the IDEM Office of Land Quality (OLQ) has determined are acceptable under specific exposure scenarios, including residential, commercial/industrial, and construction worker exposures.

5.1 Soil Lithology

Site soils are mapped as Udorthents, Loamy (100%) (**Exhibit 3**). Udorthents, Loamy is not included on the Hydric Soils List for Monroe County. Udorthents, Loamy soils are typically cut-and-filled, with a wide range of drainage and permeability qualities. Site soils observed were predominantly composed of clay. Lithologic descriptions are included on the boring logs in **Attachment 6**.

5.2 Soil Analytical Results

Subsurface soil analytical results are compared to IDEM R2 PLs for long-term residential, long-term commercial/industrial, and short-term soil excavation exposure scenarios. Soil analytical results are tabulated in **Table 1**. Soil sample locations are displayed graphically on **Exhibit 4**.

5.2.1 VOCs

VOCs are compounds that exhibit a high vapor pressure and are emitted as gases from certain solids or liquids. The list of VOCs investigated and analyzed as part of the FSI-2024 includes a variety of chemicals that can have both short- and long-term health effects on both humans and ecological receptors. VOCs are included in a myriad of manmade products including but not limited to paints and lacquers, paint thinners and strippers, hydraulic fluids, cleaning supplies, refrigerants, dry cleaning agents, pesticides, building materials and furnishings, copiers and printers, glues and adhesives, byproducts from the drinking water chlorination process, and petroleum products. All of these products can release organic compounds while in use, but can also cause contamination in soil, groundwater, and can emit potentially harmful vapors when released to the environment.

Select VOCs were detected above laboratory reporting limits in soil samples VB-1 (10'-12'), VB-2 (10'-12'), VB-3 (10'-12'), VB-4 (10'-12'), VB-5 (6'-8') and the duplicate sample (VB-DUP-1) co-located with VB-1 (10'-12'). All detections of VOCs were at concentrations below all of the 2025 IDEM R2 PLs.

5.2.2 PAHs

PAHs are a class of chemicals that occur naturally in coal, crude oil, and gasoline but are also produced during incomplete combustion of organic substances. PAHs are generated when burning fossil fuels as in motor vehicle exhaust, burning garbage, smoking tobacco, eating charred or grilled meats, burning wood, and in fumes from asphalt roads. Many PAHs are considered to be cancer-causing in both humans and ecological receptors.

Select PAHs were detected above laboratory reporting limits in soil samples VB-1 (10'-12'), VB-2 (10'-12'), VB-3 (10'-12'), and the duplicate sample (VB-DUP-1) co-located with VB-1 (10'-12'). The concentration of 1-methylnaphthalene (0.44 milligrams per kilogram (mg/kg)) exceeded the Long-Term Residential PL of 0.3 mg/kg. All other concentrations of PAHs in these samples were below IDEM PLs. No detections of PAHs above laboratory reporting limits were reported in samples VB-4 (10'-12'), or VB-5 (6'-8').

5.2.3 Lead and Arsenic

Lead is a naturally occurring, bluish-gray metallic element. It is reported that the amount of lead in the environment today is over 100 times greater than in prehistoric times. Humans have extracted lead from the Earth's crust for thousands of years and for countless anthropogenic applications increasing the amount of lead in the surficial environment. The increased presence of lead in the environment has increased human exposures to lead through time. The United States uses about 50 percent of the world's lead. Lead has a number of modern commercial and industrial uses to include the production of chemicals, paints, glazes, dyes, insecticides, solder, plumbing, ammunition, explosives, match heads, fishing sinkers, divers' suits and shoes, radioactive shielding, pewter

products, and gasoline (Leonard, 2009).

Arsenic occurs naturally in southern Indiana soils, and specifically Bloomington soils, at levels that often exceed the most conservative IDEM R2 PLs. IDEM's Office of Land Quality Fact Sheet titled "Arsenic in Soils" indicates that background concentrations of arsenic may exceed the residential soil PL of 10 mg/kg. As such, it is VET's opinion, based on experience and published documentation, that ubiquitous presence of arsenic on a site in southern Indiana is likely attributable to a naturally occurring condition. This does not, however, discount relevance of the PLs published by IDEM, nor does it suggest that naturally occurring arsenic poses any less risk than that from an anthropogenic source. The argument that arsenic is naturally occurring serves to communicate challenges with regard to remedy selection and implementation due to its widespread nature.

Arsenic was detected above laboratory reporting limits in soil samples VB-1 (10'-12'), VB-2 (10'-12'), VB-3 (10'-12'), VB-4 (10'-12'), VB-5 (6'-8') and the duplicate sample (VB-DUP-1) co-located with VB-1 (10'-12'). The concentrations of arsenic in samples VB-1 (10'-12') (13 mg/kg), (VB-DUP-1) (12 mg/kg), and VB-5 (6'-8') (20 mg/kg) exceeded the Long-Term Residential PL of 10 mg/kg, but were generally consistent with background levels.

Lead was detected above laboratory reporting limits in soil samples VB-1 (10'-12'), VB-2 (10'-12'), VB-3 (10'-12'), VB-5 (6'-8') and the duplicate sample (VB-DUP-1) co-located with VB-1 (10'-12'). The concentrations of lead identified in these samples were all below the applicable IDEM PLs.

5.3 Groundwater Analytical Results

Groundwater analytical results are compared to the IDEM R2 PLs for the long-term residential groundwater exposure scenario. The long-term residential groundwater PLs are the only available screening criteria. These PLs are most applicable to sites where groundwater obtained from on-site wells is used for drinking, showering, cooking, etc. Groundwater analytical results are tabulated in **Table 2**. Groundwater sample locations are displayed graphically on **Exhibit 5**.

5.3.1 VOCs

Select VOCs were detected above laboratory reporting limits in all groundwater samples collected during the FSI. The concentrations of VOCs identified in samples MW-1, the duplicate sample co-located with MW-1 (MW-DUP-1), and MW-4 were all below the Long-Term Residential PLs. The concentrations of benzene in samples MW-2 (180 micrograms per liter (µg/L)) and MW-3 (41 µg/L) exceeded the Long-Term Residential PL of 5.0 µg/L. The concentration of methylcyclohexane in sample MW-2 (250 µg/L) exceeded the Long-Term Residential PL of 200 µg/L.

Laboratory reporting limits for select VOCs exceed the applicable IDEM R2 PLs for samples collected during the FSI. According to an IDEM memorandum dated January 16, 2013, there are instances known to the agency where PLs may be lower than achievable laboratory reporting limits using standard analytical methodologies. If IDEM deems it necessary, the agency may request the use of "non-routine" USEPA analytical methods. Based on evaluation of historical investigations at the Site and the results of the FSI, it is VET's professional opinion additional analysis to reconcile this discrepancy is not warranted.

5.3.2 PAHs

Select PAHs were detected above laboratory reporting limits in samples MW-2 and MW-3. The concentrations of 1-methylnaphthalene at MW-2 (14 µg/L) and MW-3 (12 µg/L) exceeded the Long-Term Residential PL of 0.06 µg/L. All other PAHs were either reported at concentrations below the Long-Term Residential PL or below laboratory reporting limits.

Laboratory reporting limits for select PAHs exceed the applicable IDEM R2 PLs for samples collected during the FSI. Based on evaluation of historical investigations at the Site and the results of the FSI, it is VET's professional opinion additional analysis to reconcile this discrepancy is not warranted.

5.3.3 Lead and Arsenic

Arsenic was detected above laboratory reporting limits in sample MW-DUP-1. The concentration of arsenic in sample MW-DUP-1 (21 µg/L) exceeded the Long-Term Residential PL of 10 µg/L. Arsenic was not detected above laboratory reporting limits in any of the remaining samples collected during the FSI.

Lead was detected above laboratory reporting limits in samples MW-1 and MW-DUP-1. The concentration of lead in sample MW-DUP-1 (23 µg/L) exceeded the Long-Term Residential PL of 10 µg/L. The concentration of lead in sample MW-1 was below the Long-Term Residential PL. Lead was not detected above laboratory reporting limits in any of the remaining samples collected during the FSI.

6.0 DISCUSSION

The R2 is IDEM's system for describing selected approaches to investigation and risk-based closure of contaminated or potentially contaminated sites as prescribed in Indiana Code (IC). VET evaluated all applicable exposure scenarios, including the soil direct contact exposure scenario for construction workers developing the Site, long-term commercial use, and long-term residential exposure scenario for future users of the Site.

6.1 Soil

Analytical results from the FSI and previous Site investigations indicate that soil VOC, PAH, and metals impacts exist at the Site. Petroleum contaminants of concern (COCs) are present primarily on the northeastern portion of the Site in the vicinity of the former filling station and USTs. Arsenic impacts in soil are consistent with background concentrations. However, the presence of arsenic in soil above the Long-Term Residential PL warrants implementation of institutional or engineering controls to mitigate exposure to arsenic in soil for workers developing the Site and for long-term residential or commercial occupants. VET recommends development and implementation of a Site-specific SMP to address elevated levels of arsenic in soil.

Areas where soil COCs are present at the Site are currently paved, therefore no immediate risk of exposure to on-Site occupants exists. Based on Site conditions observed, VET recommends implementing a remedial strategy to mitigate exposure to petroleum impacts in soil for workers developing the Site and for long-term residential or commercial occupants.

6.2 Groundwater

Analytical results from the FSI and previous Site investigations indicate that groundwater VOC, PAH, and metals impacts exist at the Site. Petroleum COCs are present in groundwater primarily on the northeastern portion of the Site in the vicinity of the former filling station and USTs. Based on groundwater elevation data collected during the FSI, groundwater flow across the Site is toward the southeast. Benzene and methylcyclohexane were identified above the Long-Term Residential PLs along the eastern boundary of the Site (MW-2). COCs were not identified above laboratory reporting limits at the southeasternmost downgradient well on-Site (MW-4).

Groundwater impacts were identified below IDEM PLs in delineation samples collected at the northeastern and southeastern corners of the Site. Groundwater impacts above IDEM PLs are present along the eastern Site boundary adjoining the public right-of-way (ROW) and South College Avenue. Data suggest that the groundwater plume at the Site terminates prior to reaching the southeastern corner or migrates off-Site to the east. The Site and adjoining properties are serviced by the City of Bloomington Utilities Department. Groundwater is not used for consumptive purposes in this area of Bloomington. Several unlocated wells are mapped by the Indiana Department of Natural Resources (IDNR) Water Well Viewer within one mile and to the southeast of the Site. These downgradient wells were installed between the 1950s and 1970s and were installed between 42 feet bgs and 175 feet bgs. Based on the years of installation, depth, and uncertainty with respect to their actual location, it is not likely that groundwater is used for consumptive purposes downgradient of the Site.

VET recommends further investigations and/or remedial measures to address petroleum impacts on the northeastern portion of the Site to remove the soil source contributing to groundwater impacts. VET further recommends considering implementation of institutional controls to prevent groundwater use at the Site.

6.3 Vapor

Investigations into vapor on the Site were not formally conducted. The concentrations of petroleum COCs, specifically benzene, indicate the vapor exposure pathway warrants additional investigation or remedy. Based on evidence suggesting USTs may remain at the Site, additional investigation or remedy is warranted following source removal activities.

The Site is located in Radon Zone 1. Radon is a naturally-occurring gas that is not associated with the identified COCs in soil and groundwater at the Site. Radon was not investigated as part of this FSI. VET recommends existing structures along with future developments on the Site be appropriately tested, mitigated, and/or constructed utilizing radon resistant new construction (RRNC) technology to prevent intrusion of radon. An appropriately designed and constructed radon mitigation system also serves as a vapor mitigation system reducing intrusion of both radon gas and volatile vapors associated with releases of VOCs. VET recommends installation of an appropriate radon/vapor mitigation system constructed in accordance with applicable standards.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The FSI was not an exhaustive study but rather an evaluation that sought to further delineate environmental conditions at the Site. The FSI was designed based on IFA's comments and Site conditions that might influence decision-making with respect to planned development. The FSI did not evaluate vapor intrusion in the existing structures, nor did it serve to identify potentially harmful conditions associated with other out of scope considerations such as radon gas intrusion.

Historic Site investigations and IFA recommendations were used to guide sampling locations while field screening readings were used to guide sample depth interval selection at each location. Sample locations were further selected based on field observations at the Site. Sample locations were placed in areas that serve to further delineate impacts at the Site. Based on analytical results and Site observations, a release exists in the area of the former fueling station and USTs at the northeast corner of the Site. Based on Site conditions identified during the FSI, VET submitted a report to the IDEM Spill Response Hotline that the historic USTs may still be present in the subsurface. VET recommends that RDC retain experienced environmental counsel to evaluate reporting requirements based on the results of the FSI. A copy of the Indiana Spill Rule is included in **Attachment 8**. Based on work at the Site and the findings of this FSI, further investigation, remediation, and or implementation of institutional/engineering controls are warranted.

VET appreciates the opportunity to provide environmental consulting services for RDC. If you have any questions or concerns, please do not hesitate to contact VET at (812) 822-0400.

Respectfully submitted,

Sara R. Hamidovic, MS, PE, CHMM, CPESC
President/CEO, Principal Engineer

REFERENCES

ASTM. (2021). *Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-21).* West Conshohocken, PA: American Society for Testing Materials.

Agency for Toxic Substances and Disease Registry (ATSDR) (1995). *Toxicological Profile for Polycyclic Aromatic Hydrocarbons*. Atlanta, Georga. United States Department of Health and Human Services, Public Health Service.

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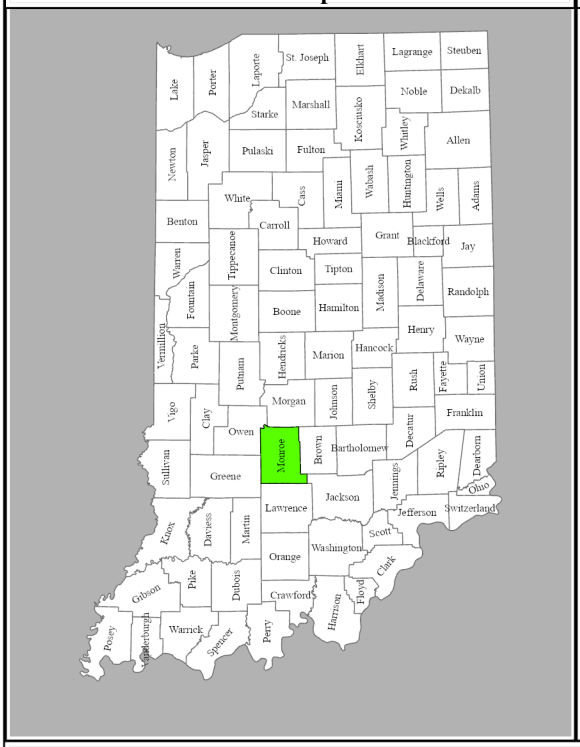
Leonard, J. E., & Robinson G. D. (2009). *Managing Hazardous Materials: A Definitive Text*. Rockville, MD: Institute of Hazardous Materials Management.

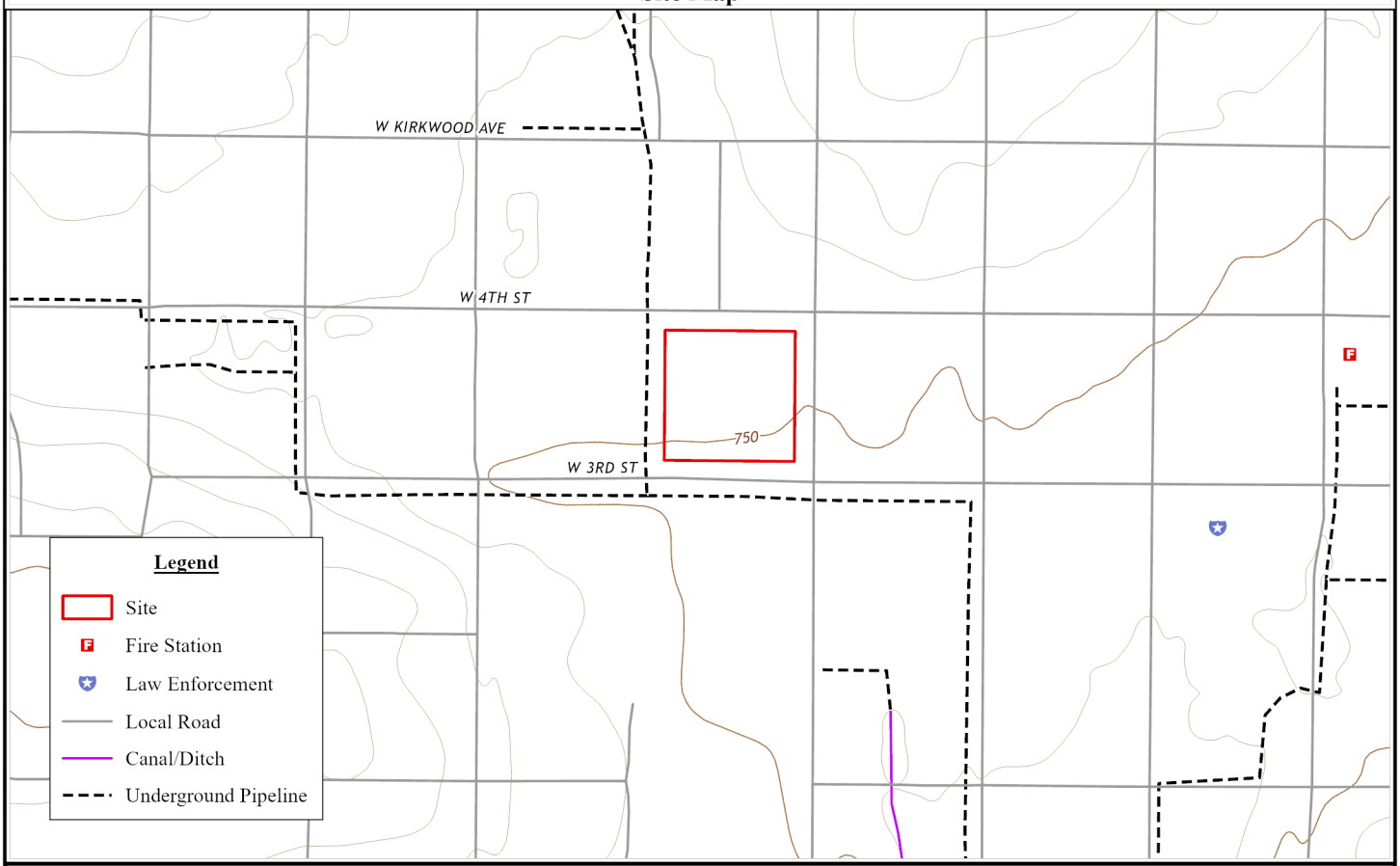
EXHIBITS

State Map



Vicinity Map

Site Map



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N

1" = 573'

0 90 180 270 Feet

Project:	Further Site Investigation
VET Project No.:	25-138
NPDES Permit No.:	N/A
Date:	2/19/2026
Exhibit: 1	**Drawn By:** MDK

Title: Area Map

Location: 226 South College Avenue, Bloomington, Indiana 47404, Monroe County

Data Sources: 2000 Indiana Census TIGER Counties, 2016 IDNR Water Wells, 2023 Esri, Maxar, Earthstar Graphics, GIS User Community Imagery, 2023 USGS TNM Topo Indiana Bloomington 7.5'

Notes: Water wells shown: 0 in 1/4 mile radius of Site

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Title:	Parcel Map
Location:	226 South College Avenue Bloomington, Indiana 47404 Monroe County
Data Sources:	2023 Esri, Maxar, Earthstar Graphics, GIS User Community Imagery, 2023 USGS TNM Topo Indiana Bloomington 7.5'

N

1" = 67'

0 10 20 30 Feet

Project:	Further Site Investigation
VET Project No.:	25-138
NPDES Permit No.:	N/A
Date:	2/19/2026
Exhibit:	2
Drawn By:	MDK
Notes:	N/A

VET Environmental Engineering, LLC

2335 W. Fountain Drive
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Title: Soils Map	**Location:** 226 South College Avenue, Bloomington, Indiana 47404, Monroe County
Data Sources:	2023 Esri, Maxar, Earthstar Graphics, GIS User Community Imagery, 2024 USDA WSS Soils, 2023 USGS TNM Topo Indiana Bloomington 7.5'

N

1" = 67'

0 10 20 30 Feet

Project:	Further Site Investigation
VET Project No.:	25-138
NPDES Permit No.:	N/A
Date:	2/19/2026
Exhibit: 3	**Drawn By:** MDK
Notes:	Hydric Soils Not Reported On Site

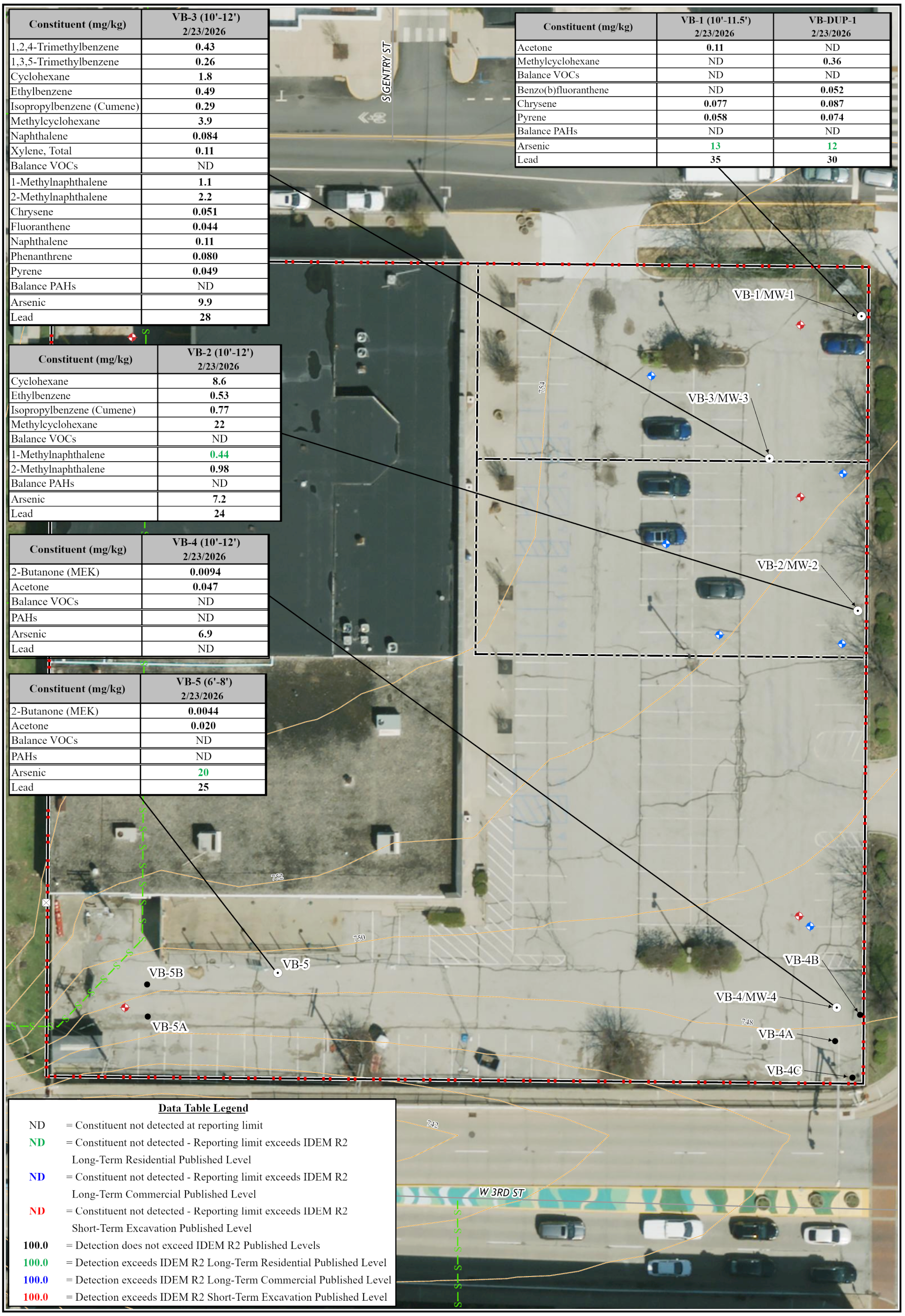
Constituent (mg/kg)	VB-3 (10'-12') 2/23/2026
1,2,4-Trimethylbenzene	**0.43**
1,3,5-Trimethylbenzene	**0.26**
Cyclohexane	**1.8**
Ethylbenzene	**0.49**
Isopropylbenzene (Cumene)	**0.29**
Methylcyclohexane	**3.9**
Naphthalene	**0.084**
Xylene, Total	**0.11**
Balance VOCs	ND
1-Methylnaphthalene	**1.1**
2-Methylnaphthalene	**2.2**
Chrysene	**0.051**
Fluoranthene	**0.044**
Naphthalene	**0.11**
Phenanthrene	**0.080**
Pyrene	**0.049**
Balance PAHs	ND
Arsenic	**9.9**
Lead	**28**

Constituent (mg/kg)	VB-1 (10'-11.5') 2/23/2026	VB-DUP-1 2/23/2026
Acetone	**0.11**	ND
Methylcyclohexane	ND	**0.36**
Balance VOCs	ND	ND
Benzo(b)fluoranthene	ND	**0.052**
Chrysene	**0.077**	**0.087**
Pyrene	**0.058**	**0.074**
Balance PAHs	ND	ND
Arsenic	**13**	**12**
Lead	**35**	**30**

Constituent (mg/kg)	VB-2 (10'-12') 2/23/2026
Cyclohexane	**8.6**
Ethylbenzene	**0.53**
Isopropylbenzene (Cumene)	**0.77**
Methylcyclohexane	**22**
Balance VOCs	ND
1-Methylnaphthalene	**0.44**
2-Methylnaphthalene	**0.98**
Balance PAHs	ND
Arsenic	**7.2**
Lead	**24**

Constituent (mg/kg)	VB-4 (10'-12') 2/23/2026
2-Butanone (MEK)	**0.0094**
Acetone	**0.047**
Balance VOCs	ND
PAHs	ND
Arsenic	**6.9**
Lead	ND

Constituent (mg/kg)	VB-5 (6'-8') 2/23/2026
2-Butanone (MEK)	**0.0044**
Acetone	**0.020**
Balance VOCs	ND
PAHs	ND
Arsenic	**20**
Lead	**25**



Data Table Legend

ND	= Constituent not detected at reporting limit
ND	= Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Residential Published Level
ND	= Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Commercial Published Level
ND	= Constituent not detected - Reporting limit exceeds IDEM R2 Short-Term Excavation Published Level
100.0	= Detection does not exceed IDEM R2 Published Levels
100.0	= Detection exceeds IDEM R2 Long-Term Residential Published Level
100.0	= Detection exceeds IDEM R2 Long-Term Commercial Published Level
100.0	= Detection exceeds IDEM R2 Short-Term Excavation Published Level

VET Environmental Engineering, LLC
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Title: ISC Soil Sample Locations, Depths, and Analytical Results

Location: 226 South College Avenue, Bloomington, Indiana 47404, Monroe County

Data Sources: 2023 Esri, Maxar, Earthstar Graphics, GIS User Community Imagery, 2023 USGS TNM Topo Indiana Bloomington 7.5'

N

1" = 32'

0 6 12 18 Feet

Project:	Further Site Investigation
VET Project No.:	25-183
NPDES Permit No.:	N/A
Date:	4/13/2026
Exhibit:	4
Drawn By:	MDK
Notes:	N/A

Legend

- Site Boundary
- Parcel Boundary
- Abandoned Boring Locations
- Historic Sample Location (BCA Phase II, 2024)
- Historic Sample Location (BCA Phase II, 2019)
- Pole Mounted Transformer
- Soil Sample Locations
- 2' Topographic Contour (2021)
- Local Road
- Sanitary Sewer Line

Constituent (mg/kg)	MW-3 2/23/2026
1,2,4-Trimethylbenzene	**3.3**
1,3,5-Trimethylbenzene	**2.5**
Benzene	**41**
Cyclohexane	**160**
Ethylbenzene	**20**
Isopropylbenzene (Cumene)	**32**
Methylcyclohexane	**130**
Toluene	**3.0**
Xylene, Total	**18**
Balance VOCs	ND/**ND**
2-Methylnaphthalene	**12**
Balance PAHs	ND/**ND**
Arsenic	**ND**
Lead	ND

Constituent (mg/kg)	MW-1 2/23/2026	MW-DUP-1 2/23/2026
Methylcyclohexane	**4.5**	**5.2**
Toluene	**0.98**	**0.92**
Balance VOCs	ND/**ND**	ND/**ND**
PAHs	ND/**ND**	ND/**ND**
Arsenic	**ND**	**21**
Lead	**6.7**	**23**

Constituent (mg/kg)	MW-2 2/23/2026
Benzene	**180**
Cyclohexane	**400**
Ethylbenzene	**11**
Isopropylbenzene (Cumene)	**31**
Methylcyclohexane	**250**
Toluene	**8.2**
Xylene, Total	**38**
Balance VOCs	ND/**ND**
1-Methylnaphthalene	**14**
2-Methylnaphthalene	**23**
Balance PAHs	ND
Arsenic	**ND**
Lead	ND

Constituent (mg/kg)	MW-4 2/23/2026
Toluene	**0.82**
Balance VOCs	ND/**ND**
PAHs	**ND**
Arsenic	**ND**
Lead	ND

Data Table Legend

ND = Constituent not detected at reporting limit

ND = Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Residential Groundwater Published Level

100.0 = Detection does not exceed IDEM R2 Published Level

100.0 = Detection exceeds IDEM R2 Long-Term Residential Groundwater Published Level

S GENTRY ST

W 3RD ST

MW-1

MW-2

MW-3

MW-4

MW-5

742 743 744 745 748 750 754

VET Environmental Engineering, LLC

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www.vet-env.com

Title: ISC Groundwater Sample Locations, Groundwater Elevations, and Analytical Results

Location: 226 South College Avenue, Bloomington, Indiana 47404, Monroe County

Data Sources: 2023 Esri, Maxar, Earthstar Graphics, GIS User Community Imagery, 2023 USGS TNM Topo Indiana Bloomington 7.5'

N

1" = 34'

0 6.5 13 19.5 Feet

Project:	Further Site Investigation
VET Project No.:	25-183
NPDES Permit No.:	N/A
Date:	4/13/2026
Exhibit:	5
Drawn By:	MDK
Notes:	N/A

Legend

- Site Boundary
- Parcel Boundary
- Pole Mounted Transformer
- 0.5' Groundwater Elevation Contour (2026)
- 0.5' Inferred Groundwater Elevation Contour (2026)
- 2' Topographic Contour (2021)
- Groundwater Flow Direction
- Local Road
- Sanitary Sewer Line

TABLES

Table 1. Soil Analytical Results
Further Site Investigation
226 South College Avenue
Bloomington, Indiana
VET Project #: 25-183

Constituents (mg/kg)		2025 IDEM R2 Soil Published Levels (mg/kg)			VB-1 (10'-12')	VB-DUP-1 (10'-12')	VB-2 (10'-12')	VB-3 (10'-11.5')	VB-4 (10'-12')	VB-5 (6'-8')
		Long-Term Residential	Long-Term Commercial	Short-Term Excavation	500-28225-1	500-282251-12	500-282251-2	500-282251-3	500-282251-4	500-282251-5
					2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026
CAS #	VOCs (GC/MS) Method 8260D									
71-55-6	1,1,1-Trichloroethane	**	**	600	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
79-00-5	1,1,2-Trichloroethane	**	**	30	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
75-34-3	1,1-Dichloroethane	**	**	2,000	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
75-35-4	1,1-Dichloroethene	**	**	100	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
95-63-6	1,2,4-Trimethylbenzene	**	**	200	<0.0031	<0.11	<0.51	**0.43**	<0.0025	<0.0015
107-06-2	1,2-Dichloroethane (EDC)	**	**	700	<0.0078	<0.11	<0.51	<0.076	<0.0061	<0.0039
78-87-5	1,2-Dichloropropane	**	**	400	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
108-67-8	1,3,5-Trimethylbenzene	**	**	200	<0.0031	<0.11	<0.51	**0.26**	<0.0025	<0.0015
123-91-1	1,4-Dioxane	**	**	10,000	<0.16	<11*	<51	<7.6*	<0.12	<0.077
78-93-3	2-Butanone (MEK)	**	**	30,000	<0.0078	<0.55	<2.5	<7.6	**0.0094**	**0.0044**
591-78-6	2-Hexanone	**	**	3,000	<0.0078	<0.55	<2.5	<0.38	<0.0061	<0.0039
91-57-6	2-Methylnaphthalene	300	3,000	7,000	<0.0078	<0.55	<2.5	<0.38	<0.0061	<0.0039
67-64-1	Acetone	**	**	100,000	**0.11**	<1.1	<5.1	<0.76	**0.047**	**0.020**
71-43-2	Benzene	**	**	2,000	<0.0031	<0.027	<0.13	<0.019	<0.0025	<0.0015
75-25-2	Bromoform	**	**	900	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
74-83-9	Bromomethane	**	**	200	<0.0078	<0.33	<1.5	<0.23	<0.0025	<0.0039
75-15-0	Carbon disulfide	**	**	700	<0.0078	<0.22	<1.0	<0.15	<0.0061	<0.0039
56-23-5	Carbon tetrachloride	**	**	500	<0.0031	<0.11	<0.51	<0.0076	<0.0025	<0.0015
108-90-7	Chlorobenzene	**	**	800	<0.0031	<0.11	<0.51	<0.0076	<0.0025	<0.0015
124-48-1	Chlorodibromomethane	**	**	800	<0.0031	<0.11	<0.51	<0.0076	<0.0025	<0.0015
75-00-3	Chloroethane	**	**	2,000	<0.0078	<0.55	<2.5	<0.38	<0.0061	<0.0039
67-66-3	Chloroform	**	**	100	<0.0031	<0.22	<1.0	<0.15	<0.0025	<0.0015
74-87-3	Chloromethane	**	**	1,000	<0.0078*	<0.55	<2.5	<0.38	<0.0061*	<0.0039*
156-59-2	cis-1,2-Dichloroethene	**	**	1,000	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
10061-01-5	cis-1,3-Dichloropropene	**	**	**	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
110-82-7	Cyclohexane	**	**	100	<0.0031	<0.11	**8.6**	**1.8**	<0.0025	<0.0015
75-27-4	Dichlorobromomethane	**	**	900	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
100-41-4	Ethylbenzene	**	**	500	<0.0031	<0.0027	**0.53**	**0.49**	<0.0025	<0.0015
106-93-4	Ethylene Dibromide (EDB)	**	**	200	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
98-82-8	Isopropylbenzene (Cumene)	**	**	300	<0.0031	<0.11	**0.77**	**0.29**	<0.0025	<0.0015
79-20-9	Methyl acetate	**	**	30,000	<0.039	<0.55	<2.5	<0.038	<0.031	<0.019
108-10-1	Methyl Isobutyl Ketone (MIBK)	**	**	3,000	<0.0078	<0.55	<2.5	<0.38	<0.0061	<0.0039
1634-04-4	Methyl tertiary butyl ether (MTBE)	**	**	9,000	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
108-87-2	Methylcyclohexane	**	**	70	<0.0031	**0.36**	**22**	**3.9**	<0.0025	<0.0015
75-09-2	Methylene Chloride	**	**	3,000	<0.0078	<0.55	<2.5	<0.38	<0.0061	<0.0039
91-20-3	Naphthalene	30	90	3,000	<0.0078	<0.11	<0.51	**0.084**	<0.0061	<0.0039
100-42-5	Styrene	**	**	900	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
127-18-4	Tetrachloroethylene (PCE)	**	**	200	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
108-88-3	Toluene	**	**	800	<0.0031	<0.027	<0.51	<0.019	<0.0025	<0.0015
156-60-5	trans-1,2-Dichloroethene	**	**	2,000	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
10061-02-6	trans-1,3-Dichloropropene	**	**	**	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
79-01-6	Trichloroethylene (TCE)	**	**	100	<0.0031	<0.055	<0.25	<0.038	<0.0025	<0.0015
75-69-4	Trichlorofluoromethane	**	**	1,000	<0.0078	<0.11*	<0.51	<0.076*	<0.0061	<0.0039
108-05-4	Vinyl acetate	**	**	3,000	<0.0078	<0.22	<1.0	<0.15	<0.0061	<0.0039
75-01-4	Vinyl chloride (chloroethene)	**	**	1,000	<0.0031	<0.11	<0.51	<0.076	<0.0025	<0.0015
1330-20-7	Xylene, Total	**	**	300	<0.0062	<0.055	<0.25	**0.11**	<0.0049	<0.0031

Table 1. Soil Analytical Results
Further Site Investigation
226 South College Avenue
Bloomington, Indiana
VET Project #: 25-183

Constituents (mg/kg)		2025 IDEM R2 Soil Published Levels (mg/kg)			VB-1 (10'-12')	VB-DUP-1 (10'-12')	VB-2 (10'-12')	VB-3 (10'-11.5')	VB-4 (10'-12')	VB-5 (6'-8')
		Long-Term Residential	Long-Term Commercial	Short-Term Excavation	500-28225-1	500-282251-12	500-282251-2	500-282251-3	500-282251-4	500-282251-5
					2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026
CAS #	**PAHs (GC/MS) Method 8270E**									
90-12-0	**1-Methylnaphthalene**	**0.3**	0.8	4	<0.12	<0.11	**0.44**	**1.1**	<0.11	<0.079
91-57-6	**2-Methylnaphthalene**	300	3,000	7,000	<0.12	<0.11	**0.98**	**2.2**	<0.11	<0.079
83-32-9	**Acenaphthene**	5,000	50,000	100,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
208-96-8	**Acenaphthylene**	**	**	**	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
120-12-7	**Anthracene**	30,000	100,000	100,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
56-55-3	**Benzo(A)Anthracene**	20	200	10,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
50-32-8	**Benzo(A)Pyrene**	2.0	20	500	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
205-99-2	**Benzo(B)Fluoranthene**	20	200	10,000	<0.057	**0.052**	<0.041	<0.044	<0.052	<0.039
191-24-2	**Benzo(G,H,I)Perylene**	**	**	**	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
207-08-9	**Benzo(K)Fluoranthene**	200	2,000	100,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
218-01-9	**Chrysene**	2,000	20,000	100,000	**0.077**	**0.087**	<0.041	**0.051**	<0.052	<0.039
53-70-3	**Dibenz(A,H)Anthracene**	2.0	20	1,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
206-44-0	**Fluoranthene**	3,000	30,000	70,000	<0.057	<0.052	<0.041	**0.044**	<0.052	<0.039
86-73-7	**Fluorene**	3,000	30,000	70,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
193-39-5	**Indeno(1,2,3-C,D)Pyrene**	20	200	10,000	<0.057	<0.052	<0.041	<0.044	<0.052	<0.039
91-20-3	**Naphthalene**	30	90	3,000	<0.057	<0.052	<0.041	**0.11**	<0.052	<0.039
85-01-8	**Phenanthrene**	**	**	**	<0.057	<0.052	<0.041	**0.080**	<0.052	<0.039
129-00-0	**Pyrene**	3,000	20,000	50,000	**0.058**	**0.074**	<0.041	**0.049**	<0.052	<0.039
CAS #	**Metals - Method 6010D (ICP)**									
7440-38-2	**Arsenic**	**10**	30	900	**13**	**12**	**7.2**	**9.9**	**6.9**	**20**
7439-92-1	**Lead**	200	800	1,000	**35**	**30**	**24**	**28**	<1.5	**25**

Table Legend

* = Data qualified (see analytical report)
** = Criteria for Constituent Not Available
<0.0 = Constituent not detected at reporting limit
<0.0 = Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Residential Published Level
<0.0 = Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Commercial Published Level
<0.0 = Constituent not detected - Reporting limie exceeds IDEM R2 Short-Term Excavation Published Level
100.0 = Detection does not exceed IDEM R2 Published Levels
100.0 = Detection exceeds IDEM R2 Long-Term Residential Published Level
100.0 = Detection exceeds IDEM R2 Long-Term Commercial Published Level
100.0 = Detection exceeds IDEM R2 Short-Term Excavation Published Level

Table 2. Groundwater Analytical Results
Further Site Investigation
226 South College Avenue
Bloomington, Indiana
VET Project #: 25-183

Constituents µg/L		2025 IDEM Remediation Closure Guide (R2) Long-Term Groundwater Residential Published Level (µg/L)	MW-1	MW-DUP-1	MW-2	MW-3	MW-4
			500-282251-6	500-282251-10	500-282251-8	500-282251-7	500-282251-9
			2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026
CAS #	VOCs - Method 8260B (GC/MS)						
71-55-6	1,1,1-Trichloroethane	200	<1.0	<1.0	<5.0	<1.0	<1.0
79-00-5	1,1,2-Trichloroethane	5.0	<1.0	<1.0	<5.0	<1.0	<1.0
75-34-3	1,1-Dichloroethane	30	<1.0	<1.0	<5.0	<1.0	<1.0
75-35-4	1,1-Dichloroethene	7.0	<1.0	<1.0	<5.0	<1.0	<1.0
95-63-6	1,2,4-Trimethylbenzene	60	<1.0	<1.0	<5.0	**3.3**	<1.0
106-93-4	1,2-Dibromoethane	**0.05**	**<1.0**	**<1.0**	**<5.0**	**<1.0**	**<1.0**
107-06-2	1,2-Dichloroethane	5.0	<1.0	<1.0	<5.0	<1.0	<1.0
78-87-5	1,2-Dichloropropane	5.0	<1.0	<1.0	<5.0	<1.0	<1.0
108-67-8	1,3,5-Trimethylbenzene	60	<1.0	<1.0	<5.0	**2.5**	<1.0
123-91-1	1,4-Dioxane	**5.0**	**<100**	**<100**	**<500**	**<100**	**<100**
78-93-3	2-Butanone (Methyl ethyl ketone - MEK	6,000	<5.0	<5.0	<25	<5.0	<5.0
591-78-6	2-Hexanone	40	<5.0	<5.0	<25	<5.0	<5.0
91-57-6	2-Methylnaphthalene	40	<5.0	<5.0	<25	<5.0	<5.0
67-64-1	Acetone	20,000	<10	<10	<50	<10	<10
71-43-2	Benzene	**5.0**	<0.50	<0.50	**180**	**41**	<0.50
75-25-2	Bromoform	80	<1.0	<1.0	<5.0	<1.0	<1.0
74-83-9	Bromomethane	**8.0**	<3.0	<3.0	**<15**	<3.0	<3.0
75-15-0	Carbon disulfide	800	<2.0	<2.0	<10	<2.0*	<2.0
56-23-5	Carbon tetrachloride	5.0	<1.0	<1.0	<5.0	<1.0	<1.0
108-90-7	Chlorobenzene	100	<1.0	<1.0	<5.0	<1.0	<1.0
124-48-1	Chlorodibromomethane	80	<1.0	<1.0	<5.0	<1.0	<1.0
75-00-3	Chloroethane	8,000	<5.0	<5.0	<25	<5.0	<5.0
67-66-3	Chloroform	80	<2.0	<2.0	<10	<2.0	<2.0
74-87-3	Chloromethane	200	<5.0	<5.0	<25	<5.0	<5.0
156-59-2	cis-1,2-Dichloroethylene	70	<1.0	<1.0	<5.0	<1.0	<1.0
542-75-6	cis-1,3-Dichloropropene	5.0	<1.0	<1.0	<5.0	<1.0	<1.0
110-82-7	Cyclohexane	10,000	<1.0	<1.0	**400**	**160**	<1.0
75-27-4	Dichlorobromomethane	80	<1.0	<1.0	<5.0	<1.0	<1.0
100-41-4	Ethylbenzene	700	<0.50	<0.50	**11**	**20***	<0.50
98-82-8	Isopropylbenzene (Cumene)	500	<1.0	<1.0	**31**	**32***	<1.0
79-20-9	Methyl acetate	20,000	<5.0	<5.0	<25	<5.0	<5.0
108-10-1	Methyl Isobutyl Ketone (MIBK)	6,000	<5.0	<5.0	<25	<5.0*	<5.0
1634-04-4	Methyl tertiary butyl ether (MTBE)	100	<1.0	<1.0	<5.0	<1.0	<1.0
108-87-2	Methylcyclohexane	**200**	**4.5**	**5.2**	**250**	**130***	<1.0
75-09-2	Methylene Chloride	**5.0**	<5.0	<5.0	**<25**	<5.0	<5.0
91-20-3	Naphthalene	**1.0**	<1.0	<1.0	**<5.0**	<1.0	<1.0
100-42-5	Styrene	100	<1.0	<1.0	<5.0	<1.0	<1.0
127-18-4	Tetrachloroethylene (PCE)	5	<1.0	<1.0	<5.0	<1.0	<1.0
108-88-3	Toluene	1,000	**0.98**	**0.92**	**8.2**	**3.0**	**0.82**
156-60-5	trans-1,2-Dichloroethene	100	<1.0	<1.0	<5.0	<1.0	<1.0
10061-02-6	trans-1,3-Dichloropropene	**	<1.0	<1.0	<5.0	<1.0	<1.0
79-01-6	Trichloroethylene (TCE)	5.0	<0.50	<0.50	<2.5	<0.50	<0.50
75-69-4	Trichlorofluoromethane	5,000	<1.0*	<1.0*	<5.0*	<1.0*	<1.0*
108-05-4	Vinyl acetate	400	<2.0	<2.0	<10	<2.0	<2.0
75-01-4	Vinyl chloride (chloroethene)	**2.0**	<1.0	<1.0	**<5.0**	<1.0*	<1.0
1330-20-7	Xylene, Total	10,000	<1.0	<1.0	**38**	**18**	<1.0

Table 2. Groundwater Analytical Results
Further Site Investigation
226 South College Avenue
Bloomington, Indiana
VET Project #: 25-183

Constituents µg/L		2025 IDEM Remediation Closure Guide (R2) Long-Term Groundwater Residential Published Level (µg/L)	MW-1	MW-DUP-1	MW-2	MW-3	MW-4
			500-282251-6	500-282251-10	500-282251-8	500-282251-7	500-282251-9
			2/23/2026	2/23/2026	2/23/2026	2/23/2026	2/23/2026
CAS #	PAHs (GC/MS) Method 8270D						
90-12-0	1-Methylnaphthalene	0.06	<1.8	<4.0	14	<11*	<1.9
91-57-6	2-Methylnaphthalene	40	<1.8	<4.0	23	12*	<1.9
83-32-9	Acenaphthene	500	<0.90	<2.0	<0.85	<5.3*	<0.94
208-96-8	Acenaphthylene	**	<0.90	<2.0	<0.85	<5.3*	<0.94
120-12-7	Anthracene	2,000	<0.90	<2.0	<0.85	<5.3*	<0.94
56-55-3	Benzo(A)Anthracene	0.3	<0.18	<0.40	<0.17	<1.1*	<0.19
50-32-8	Benzo(A)Pyrene	0.2	<0.18	<0.40	<0.17	<1.1*	<0.19
205-99-2	Benzo(B)Fluoranthene	3.0	<0.18	<0.40	<0.17	<1.1*	<0.19
191-24-2	Benzo(G,H,I)Perylene	**	<0.90	<2.0	<0.85	<5.3*	<0.94
207-08-9	Benzo(K)Fluoranthene	30	<0.18	<0.40	<0.17	<1.1*	<0.19
218-01-9	Chrysene	300	<0.18	<0.40	<0.17	<1.1*	<0.19
53-70-3	Dibenz(A,H)Anthracene	0.3	<0.27	<0.60	<0.26	<1.6*	<0.28
206-44-0	Fluoranthene	800	<0.90	<2.0	<0.85	<5.3*	<0.94
86-73-7	Fluorene	300	<0.90	<2.0	<0.85	<5.3*	<0.94
193-39-5	Indeno(1,2,3-C,D)Pyrene	3.0	<0.18	<0.40	<0.17	<1.1*	<0.19
91-20-3	Naphthalene	1.0	<0.90	<2.0	<0.85	<5.3*	<0.94
85-01-8	Phenanthrene	**	<0.90	<2.0	<0.85	<5.3*	<0.94
129-00-0	Pyrene	100	<0.90	<2.0	<0.85	<5.3*	<0.94
CAS #	Metals - Method 6010B (ICP/MS)						
7440-38-2	Arsenic	10	<10	21	<10	<10	<10
7439-92-1	Lead	10	6.7	23	<5.0	<5.0	<5.0

Table Legend

* = Data qualified (see analytical report)
** = Screening level not found for constituent
<0.0 = Constituent not detected at reporting limit
<0.0 = Constituent not detected - Reporting limit exceeds IDEM R2 Long-Term Residential Groundwater Published Level
100.0 = Detection does not exceed IDEM R2 Published Level
100.0 = Detection exceeds IDEM R2 Long-Term Residential Groundwater Published Level

ATTACHMENT 1

BCA Environmental Consultants, LLC
AIR • WATER • SOLID WASTE • BROWNFIELDS • REMEDIATION SERVICES

May 29, 2019

Mr. Brian Payne
Assistant Director
Office of Economic & Sustainable Development
401 N Morton Street, Suite 150
Bloomington, IN 47404

RE: Phase I Environmental Site Assessment
Commercial Building
216 S. College Ave.
Bloomington, Indiana 47404
BCA Project No. 8131/19-132

Dear Mr. Payne:

Please find enclosed for your review an electronic (PDF) copy of the Phase I Environmental Site Assessment report that we recently completed for City of Bloomington on the referenced property. Should you have any questions regarding the findings of this report or should you need additional information, please do not hesitate to contact us at (317) 578-4233.

Sincerely,

Leonard D. Hinrichs II, LPG
Business Development Manager

7202 E 87th St., Suite 110
Indianapolis, IN 46256
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PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 South College Avenue
Bloomington, Indiana 47404

May 29, 2019

BCA Project No. 8131/19-132

BCA Environmental Consultants, LLC

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PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 South College Avenue
Bloomington, Indiana 47404

May 29, 2019

BCA Project No. 8131/19-132

Prepared For:
City of Bloomington

Respectfully Submitted by:
BCA Environmental Consultants, LLC

Rodney A. Manny
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1.0 SUMMARY

BCA Environmental Consultants, L.L.C. (BCA) has performed a Phase I Environmental Site Assessment (ESA) of the Commercial property located at 216 S. College Avenue, Bloomington, Monroe County, Indiana 47404 (Subject Site). The work was conducted within the framework of the ASTM 1527-13 and the All Appropriate Inquiry (AAI) Standards. The Subject Site is bounded by commercial and municipal properties.

Environmentally significant information pertaining to the Subject Site and surrounding area that was found during the course of this investigation includes:

1. Commercial Building (Subject Site), 216 S. College Avenue
   The Subject Site was historically a former livery and lime, coal, and lumber storage facility from the early 1880s through at least 1913; the location of filling stations and battery & ignition service shops from before 1927 until sometime after 1947; and a costume shop, financial and law offices since before 1963 to the present. The property is located along a former main railroad line (adjoining to the west) until it was converted into the B-Line rail trail in the early 2010s.

   - The historical presence of a rail spur on the western portion of the Subject Site along with coal storage piles is an environmental concern.
   - The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the Subject Site from the 1920s through at least the late 1940s is an environmental concern.
   - The historical presence of two (2) battery and ignition service stations in the north-central portion of the Subject Site from the 1920s through at least the late 1940s is an environmental concern
   - Vulcanizing activities, reported to historically have been present on the Subject Site, are an environmental concern
   - The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site is an environmental concern.

2. Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street)
   The presence of this former manufactured gas plant site, adjoining the Subject Site to the west across the B-Line Trail, is an environmental concern, especially since it is directly upgradient from the Subject Site with respect to measured groundwater flow direction.

2.0 INTRODUCTION

2.1 Location and Legal Description

The Subject Site is comprised of three (3) parcels of land identified by two (2) parcel numbers (# 53-05-33-310-240.000-005 and # 53-05-33-310-243.000-005) totaling approximately 1.7 acres of land, and is situated in the SW ¼ of the SW ¼ of the SW 1/4 of Section 33, Township 9N, Range 1W in Bloomington, Monroe County, Indiana. The Subject Site has a legal address of 216 South College Avenue, Bloomington, Indiana, 47404 (Figure 1 and Figure 2).

2.1.1 Site and Vicinity General Characteristics

The Subject Site is located on the northwest corner of S. College Avenue and W. 3rd Streets in downtown Bloomington, IN. The area is predominantly commercial and municipal in nature.

2.1.2 Current Uses of the Property

The Subject Site is zoned CD (Commercial Downtown). The on-site buildings are currently used as commercial office space and a retail shop.

2.1.3 Descriptions of Structures, Roads, Other Improvements

The Subject Site consists of two adjoining parcels (# 53-05-33-310-240.000-005 and # 53-05-33-310-243.000-005) with surface dimensions of approximately 280 feet x 289 feet, totaling 1.7 acres of land. The parcel (# 53-05-33-310-243.000-005) is divided into two equal lots, each having surface dimensions of 135 feet x 60 feet, on which are paved parking lots. An approximately 29,000 square feet (ft^2), brick and block building on concrete slab occupies the western portion of the Subject Site. The remainder of the property is covered by an asphalt paved parking lot with access points on 4th Street to the north and S. College Avenue to the east. The B-Line recreational trail adjoins the Subject Site to the west, and W. 3rd Street adjoins to the south. The Subject Site has electricity, natural gas, and city water and sewer services available to it.

2.1.4 Current Uses of the Adjoining Properties

A museum and retail shops adjoin the Subject Site to the north and northwest across 4th Street. The Indiana Limestone Co. office adjoins the Subject Site to the northeast. Commercial services and an entertainment center adjoin the Site to the east across College Ave. The Monroe County Convention Center adjoins the Subject Site to the south across 3rd Street. Vectren Gas Co. adjoins the Site to the west across the B-Line Trail.

2.2 Purpose

BCA was requested and authorized by Mr. Brian Payne, Assistant Director, Office of Economic and Sustainable Development, City of Bloomington, Indiana to perform a Phase I Environmental Site Assessment (ESA) of the Commercial Building site located at 216 S. College Avenue in Bloomington, Indiana. This report presents the

information obtained during the investigation and provides findings, opinions, and conclusions based on the information.

2.3 Detailed Scope-Of-Services

BCA performed this Phase I Environmental Site Assessment pursuant to the scope of work requested by the client. This work was performed in accordance with the "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM E1527-13 (the Standard) with the exceptions noted in Section 2.5 below and the All Appropriate Inquiry (AAI) standard codified at 40 CFR 312 as updated December 31, 2013. To accomplish the goals set forth in the Standard and AAI, BCA personnel conducted historical research, a review of public records, interviews and a site visit.

The scope of historical research conducted by BCA in the preparation of this Phase I site assessment included a search of Sanborn Fire Insurance Map coverage for the area of and around the Subject Site, a review of available city directory listings for addresses near the subject property, a review of historical aerial photographs of the subject property and surrounding land, a review of available Property Tax Records, and a review of available building permits.

The public records search included, but is not limited to, an examination of US EPA and Indiana Department of Environmental Management (IDEM) computer databases for sites that fall within the search radii that are published in the Standard. An effort was made to find specific information about the Subject Site and adjoining sites identified in this database search that could have an impact on the Subject Site. This effort included a review of files that are available online on the IDEM Virtual File Cabinet (VFC).

The site visit portion of the assessment included an inspection of the Subject Site and those parts of neighboring properties that could be seen from public rights-of-way around and near the Subject Site. Appropriate notes and photographs were obtained pursuant to the Standard.

2.4 Significant Assumptions

Assumptions made in the preparation of this report include the assumption that the environmental records obtained from the IDEM and US EPA internet sites are complete and up-to-date. It also has been assumed that information on groundwater flow and vapor migration in an area can *in general* be extrapolated from the local topography, surface drainage, investigations from local LUST, State Clean-up, and VRP sites, and published reports. BCA has assumed that all persons that were interviewed for this report have been truthful in their answers.

2.5 Limitations and Exceptions

BCA based the conclusions of this Phase I report upon the information described herein subject to the limitations attached to or described in the report. Because of the limited nature of the inquiry, BCA makes no warranties; either expressed or implied,

that the site is free of contamination. BCA does warrant, however, that it performed this assessment in accordance with the level of care and skill ordinarily exercised by other persons or entities currently performing similar work and practicing under similar conditions.

2.6 Special Terms and Conditions

No Special terms or conditions apply to this Phase I report.

2.7 User Reliance

BCA makes this report for the benefit of the City of Bloomington (the User) who may rely upon it. A copy of the report may be given to a lender, investor or purchaser of the property covered by the report. The reliance on this report by any person or party (other than the User) is limited by the ASTM standard since a third party is not the User and has not fulfilled User Obligations. ASTM E1527-13 specifies that a report completed less than 180 days previously is presumed to be valid.

3.0 USER PROVIDED INFORMATION

3.1 Chain of Ownership

No title search or related information was provided by the User. However, a Property Report Card (PRC) with partial ownership history was obtained from the Monroe County GIS Department – GIS Web site. According the PRC, the current owners of the property are:

- Rbowa, LLC (parcel # 53-05-33-310-240.000-005)
- Thomas Sicks & Nancy Held (parcel # 53-05-33-310-243.000-005)

The immediate past owners of the property are:

- Indiana University Foundation (parcel # 53-05-33-310-240.000-005)
- Marilyn A. Sicks (parcel # 53-05-33-310-243.000-005)

No other information on past ownership of the Subject Site was found.

Refer to Section 4.4.4 for further information regarding property ownership history.

3.2 Environmental Liens

The User is not aware of any environmental liens or activity and use limitations (AULs) associated with the Subject Site. A search provided by *GeoSearch* reported no environmental liens or AULs associated with the Subject Site. In addition, a search of the IDEM Institutional Controls (IC) Registry was conducted by BCA on May 1, 2019. No AULs were found for the Subject Site or immediately adjoining sites in the IDEM IC Registry (Appendix B).

3.3 Specialized Knowledge

No specialized knowledge was provided by the User for the preparation of this report.

3.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information was used in preparation of this report.

3.5 Valuation Reduction for Environmental Issues

There is no known valuation reduction associated with the Subject Site and the User is not aware of any valuation reduction for environmental issues.

3.6 Owner, Property Manager, and Occupant Information

The Subject Site is currently owned by Rbowa, LLC, and Thomas Sicks & Nancy Held, and is currently occupied with commercial offices and a retail store.

3.7 Reason for Performing Phase I

The User requested this Phase I ESA to satisfy one of the requirements for limited liability protection under CERCLA and AAI (“All Appropriate Inquiry”) and the need to

understand potential environmental conditions that could materially impact future use of the subject and adjoining properties.

The User completed and signed the AAI User Questionnaire provided in Appendix C.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Agency public records maintained by the Indiana Department of Environmental Management (IDEM) and made available on the internet through the Virtual File Cabinet (VFC) and those of the U.S. EPA available from electronic databases were searched on April 26, 2019 by BCA and *GeoSearch* to determine if there had been any environmental reports, permits, incidents, or similar events specified in the ASTM 1527-13 Standard at or near the Subject Site. Pertinent records and search results are provided in Appendix D.

Based on our review of the records, it appears that:

a) No Federal NPL sites are currently located within one mile of the Subject Site.

b) No Federal Delisted NPL sites are currently located within one-half mile of the Subject Site.

c) No Federal CERCLIS (SEMS) sites are currently located within one-half mile of the Subject Site.

d) Eight (8) Federal CERCLIS NFRAP (SEMS – Archive) sites are currently located within one-half mile of the Subject Site. *Note: six of these sites could not be mapped by GeoSearch due to limited or incomplete address information.* See *GeoSearch* Report pages 106 and 146 in Appendix D.

e) Two (2) Federal RCRA Corrective Action sites are currently located within one mile of the Subject Site. See *GeoSearch* Report pages 96 and 130 in Appendix D and Section 4.2 below for additional information.

f) Two (2) RCRA TSD facilities are located within one-half mile of the Subject Site. See GeoSearch Report pages 102 and 136 in Appendix D and Section 4.2 below for additional information.

g) One (1) RCRA hazardous waste generator site is reported on the Subject Site or adjoining properties. See *GeoSearch* Report pages 39 in Appendix D and Section 4.2 below for additional information.

h) Four (4) RCRA Non-Generator hazardous waste generator sites are reported on the Subject Site or adjoining properties. See GeoSearch Report pages 26, 32, 34, and 37 in Appendix D and Section 4.2 below for additional information.

i) No Federal IC / EC registries are reported on the Subject Site or

adjoining properties.

j) No Federal ERNS registries are reported for the Subject Site.

k) Seventeen (17) state-listed cleanup sites are located within one mile of the Subject Site. See *GeoSearch* Report pages 24, 57, 59, 62, 64, 78, 82, 83, 85, 105, 108, 114, 116, 117, 121, 124, and 144 in Appendix D and Section 4.2 below for additional information.

l) No State records of reported spills were found for the Subject Site or adjoining properties.

m) No operating Solid Waste Landfill or solid waste disposal facility is located within one-half mile of the Subject Site.

n) Three (3) registered Underground Storage Tank (UST) sites are located on the Subject Site or on sites adjoining the Subject Site. See *GeoSearch* Report pages 30, 38, and 41 in Appendix D and Section 4.2 below for additional information.

o) Twenty-one (21) Leaking Underground Storage Tank (LUST) sites are located within one-half mile of the Subject Site. See *GeoSearch* Report pages 25, 45, 47, 58, 66, 71, 74, 84, 86, 88, 91, 92, 93, 95, 109, 112, 125, 126, 142, 145, and 149 in Appendix D and Section 4.2 below for additional information.

p) No State IC / EC registries are reported for the Subject Site or adjoining properties.

q) Two (2) State Voluntary Remediation sites are situated within one-half mile of the Subject Site. See *GeoSearch* Report pages 42 and 63 in Appendix D for additional information.

r) Sixteen (16) State and U.S. Brownfield Program Site listings are situated within one-half mile of the Subject Site. See *GeoSearch* Report pages 23, 31, 36, 43, 52, 65, 70, 80, 90, 107, 111, 115, 118, 122, 129, and 147 in Appendix D and Section 4.2 below for additional information.

s) No registered or Historic Drycleaner Site listings are situated within one-quarter mile of the Subject Site.

4.2 Additional Environmental Records

BCA searched IDEM's VFC on April 30, 2019 for any environmentally significant reports associated with the Subject Site or adjoining sites:

Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street)

This site, located adjoining the Subject Site to the west across the B-Line Trail, was a former manufactured gas plant site from approximately 1900 through 1930. Both coal gas and carbureted water gas processes were utilized on the site, and numerous above and below ground structures were historically present on the site including: a coke house, purifier room, meter room, generator room retorts, iron oil storage tanks, coal and coke piles, a tar well, and three (3) gas holders. None of the above ground portions of these structures remain; however, portions of the below ground structures are believed to still be present beneath the current occupant of the site, a Vectren Energy Operations Center. Several areas of concern were noted in the site Remediation Work Plan (RWP) prepared by Earth Tech in 2002: the northeast portion of the site near the tar well and small gas holder; the southwestern portion of the site near the 100,000 cubic feet gasholder; and the southeastern portion of the site in the area of the former relief gas holder. Other reports reviewed included a Multi-Site Voluntary Remediation Agreement approved by IDEM in March 2004 (site VRA ID # 6000410); a Preliminary Risk Evaluation Report prepared by Earth Tech in 2005; and several Reports of Findings – Groundwater Sampling by Earth Tech from 2006 and 2007. Based on the reports reviewed, contaminants of concern in groundwater remaining on the site at concentrations exceeding IDEMs guidelines include: the VOCs benzene and naphthalene and various PAHs. However, no closure documents, certificates of completion, or covenants-not-to-sue were found in the VFC, and the current investigation and/or remediation status of the site is unknown. VFC Documents # 56202998, 31169620, 30378450, and 47437557.

Former Bloomington Tire, 301 S. College Avenue

This former automotive repair facility located adjoining southeast of the Subject Site across S. College Avenue and 3rd Street, was the location of a lust incident related to a waste oil tank and several hydraulic lifts. The site was issued a Comfort Letter in May 2006 which indicated that soil contamination (including metals, PAHs, PCBs, and petroleum constituents), and groundwater contamination (including tetrachloroethylene (PCE), vinyl chloride (VC) and various PAHs) were present at levels exceeding residential and industrial closure levels. The letter further indicated that the groundwater contamination was likely from an offsite source(s), most likely to the northeast or east across S. Walnut Street. The Comfort Letter stipulated that an ERC prohibiting groundwater use, limiting soil excavation, and maintaining an impervious cap over the site be put in place. VFC Document # 20573576.

Former Bloomington Ford, 302 S. College Avenue

According to documentation, one (1) 300-gallon used oil UST was removed from the site and closed in March of 1991. Also, one (1) 1,000-gallon gasoline UST was filled with inert material and closed in place during March of 1991. The soil from the tank

cavity was tested for non-halogenated VOCs, the results came back as non-detect. It appears one (1) UST of unknown size and contents was also removed from the site in 1986. An NFA approval letter was granted to the site on July 19th, 2016. VFC Documents # 23384162 & 80342003.

Josephine Brown Trust Property, 211 & 213 S. College Avenue

According to documentation, the property at 211 & 213 S. College Ave. has operated as an automotive dealership, auto repair shop, gasoline service station, and automotive rental facility. A total of seven (7) underground storage tanks were removed from the site in 1995. A total of 1,600 tons of contaminated soil were removed from the site for proper disposal. Eight (8) monitoring wells were installed on-site and screened near the soil/bedrock interface at approximately 15 feet below ground surface. All monitoring wells produced water with acceptable concentration levels except for one. MW-7 appears to produce water with elevated levels of PCE and TCE. These findings are reported in a site remediation report prepared by Bynum Fanyo Environmental, Inc. dated July 16th, 1997. A brownfields Site Status Letter was granted to the site in October 1998, indicating that "there is no risk of exposure to any chemical of potential concern at the property, and the reuse of the property is not expected to pose any additional risk to human health or result in any additional harm to the environment". VFC Documents # 14582194 & 15433359.

Wonderlab Museum, 308 W. 4th Street

According to documentation, five (5) USTs were discovered on-site in April of 1997 and removed in 1998. In April of 2002, a 1,000-gallon waste oil and 1,000-gallon heating oil UST were removed from the property. An NFA letter was awarded to the site on July 16th, 2002 after results of groundwater sampling came back below action levels. TPH levels remained above action limits in the soil from the UST excavation area but do not pose a hazard to human health and the environment. VFC Documents #'s 48620741 & 48533986

4.3 Physical Setting

As estimated from the U.S. Geologic Survey 7.5 Minute Series Topographic Quadrangle Map for Bloomington, Indiana (2013; C.I. = 10 feet), the elevation of the site is approximately 750 feet above mean sea level, relative to the North American Vertical Datum of 1988. The site is situated on relatively level terrain. Surface drainage in the overall area of the Subject Site is generally to the south-southeast toward Clear Creek located 0.4 miles south southeast of the Subject Site. However, surface drainage at the Subject Site flows to the adjacent streets and municipal storm water system.

4.3.1 Soils

As described in the *Web Soil Survey, Soil Resource Report for Monroe County, Indiana 216 South College Avenue, Bloomington, IN 47404,* and accessed on April 26, 2019, there is one soil map unit within the Subject Site parcel:

Ua Udorthents, loamy 100%

Udorthents are human-altered and human-transported (HAHT) soils and materials. HAHT soils include those intentionally and substantially modified by humans for specific purposes (e.g., terraced agriculture, building support, mining, transportation, etc.). They do not include soils modified through standard agricultural practices (such as shallow plowing, liming, and fertilization) or farmed soils with unintended wind and water erosion (Appendix E).

4.3.2 Surficial Geology

The area of the Subject Site is underlain by approximately 5 to 15 feet of unconsolidated deposits that lie on Mississippian age bedrock (Fenelon, et al, 1994). Total thickness of unconsolidated deposits overlying bedrock in Monroe County is commonly reported as 6 to 25 feet. The unconsolidated sediments consist of Terra Rossa – red, clayey regolith, 5 to 50 feet thick, over limestone of Middle Mississippian age.

4.3.3 Bedrock Geology

The Subject Site and surrounding area lie within the Mitchell Plateau physiographic unit within the Southern Hills and Lowlands regional physiographic province (Gray, 2000). The Mitchell Plateau is bounded by the older rocks of Norman Upland on the east and the younger rocks of the Crawford Upland to the west. The Mitchell Plateau (also referred to as the Mitchell Plain) is a karst area in Indiana of relatively low relief. An extensive underlying cave system developed in Mississippian age limestone bedrock. Surface drainage is rare due to most streams in the area disappearing into caves or joints within the rock.

Bedrock at the site is reported to be the Mississippian-aged Sanders Group (that includes the Harrodsburg and Salem Limestones). The Sanders Group consists of a variety of carbonate rocks in complex facies relationships. The Ramp Creek and Muldraugh Formations at the base of the group are dominantly a mixture of fine-grained dolomite and limestone. Cherty and siliceous intervals are common, and minor amounts of siltstone and shale are present. Above that interval in the Harrodsburg Limestone, well-cemented bioclastic calcarenites and calcirudites are dominant over argillaceous limestone, dolosiltites, and shale. The abundance of geodes and chert decreases upward in the group. The Salem Limestone except for the Somerset Shale Member at its base is dominated by porous calcarenite, although it contains a wide variety of other kinds of limestone.

4.3.4 Hydrology

Surface Water

The Subject Site lies within the East Fork White River basin, which has a total drainage area of 5,746 square miles in south-central Indiana. In general, drainage of the Mitchell Plain (including the Subject Site) in Monroe County is considerably different from the rest of the basin; most runoff quickly leaves the surface by entering sinkholes and becoming part of the ground-water system. In the streams that do flow across the Mitchell Plain, some surface water is intercepted by swallow holes and diverted underground into either the groundwater system or

subterranean channels. Surface water drainage from the Subject Site flows south into Clear Creek, located 0.4 mile to the south-southeast.

Unconsolidated Aquifer System
The Subject Site lies in the Dissected Till and Residuum / Unglaciated Southern Hills and Lowlands Aquifer System. Total thickness of unconsolidated deposits overlying bedrock is commonly 6 to 25 feet. Clay material dominates this unconsolidated aquifer system; however, discontinuous sand or gravel deposits are reported. These deposits are commonly 1 to 3 feet thick. Because of low permeability of surface materials, this system is not considered very susceptible to contamination from surface sources.

Bedrock Aquifer System
The Blue River and Sanders Groups occur as the uppermost bedrock aquifer system over most of the west-central portion of Monroe County. Depth to bedrock is generally between 5 and 30 feet. The Blue River and Sanders Groups Aquifer System is not regarded as a major ground-water resource in the county. Static water levels range from 0 feet to 197 feet below land surface but generally between 15 and 75 feet below surface. Areas of shallow bedrock, especially where joints, fractures, and solution features are present, may allow contamination. These conditions warrant considering the aquifer system as a whole to be susceptible to contaminants introduced at and near land surface.

The City of Bloomington is served by a public water supply. Based on environmental reports for other nearby sites, local groundwater flow in and around the Subject Site is to the south-southeast.

Regional groundwater flow of the area is predominately to the south-southwest in general conformance with surface topography/drainage and the regional attitude of underlying bedrock.

4.4 Historical Use Information on the Property

4.4.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps were searched by *GeoSearch* on April 30, 2019 and reviewed by BCA. Maps covering the Subject Site for the years 1883, 1887, 1892, 1898, 1907, 1913, 1927, 1947, and 1963 were reviewed. Copies of the Sanborn Maps are included in Appendix F. The descriptions for each map reviewed are provided below:

Sanborn Map - 1883
The Subject Site is split into two parcels, an eastern and a western parcel. On the western parcel, a rail line runs alongside the northwest edge. Directly to the east of the rail line is a coal house and a lime house. An office sits on the northern edge of parcel next to Fourth Street. There is a livery (65'x130') on the eastern half of the Site. Lumber was stored on the western edge of the livery. On the eastern

parcel a smaller stable was present on the south western edge. A small wooden structure is built on to the eastern edge of this stable. A brick residential dwelling is present on the north eastern edge of the Site. Three wooden structures are built on to the edges of this dwelling.

Sanborn Map - 1887

Within the western parcel, a sand bin and a coal house appear on the western edge. Two new open structures are shown on the south western and south-central portions of the parcel. A lumber shed appears in the north central portion of the parcel. The western parcel is now labelled as "W.B. Hugh's, Coal, Lime, and Lumber Yard." No changes are made to the eastern parcel between 1883 and 1887.

Sanborn Maps - 1892

On the western parcel a coal house appears on the south western edge. Two lumber sheds are labelled in the central portion of the parcel. The livery remains in its original position. An additional dwelling is built on the southern edge of the eastern parcel. A structure appears on the central eastern side of the eastern parcel. A previous structure is now labelled as a doctor's office.

Sanborn Maps - 1898

The 1898 map shows the Subject Site to be essentially the same as the 1892 map with the exception of a new stable shown along the western central boundary of the eastern parcel and an add-on to the livery labeled "Carriage Warehouse."

Sanborn Maps - 1907

The western parcel is now labelled "Hughes Bro's Lumber & Coal Yard." There is now a structure designated to lime storage and a structure designated as a "cement warehouse" both on the western edge of the western parcel. The carriage warehouse is now an official part of the livery. The lumber shed to the north has changed shape and is now labelled "office". The eastern parcel has remained essentially the same other than the removal of the stable that appeared in the 1898 map and the removal of a portion of the stable on the southern edge.

Sanborn Maps - 1913

This map shows the Subject Site to be essentially the same as the 1907 map with the exception of the appearance of a new building in the northern portion of the eastern parcel labelled "lunch" and an addition to the office on the northside of the western parcel.

Sanborn Maps - 1927

This map shows a new structure is labeled "Filling Station" in the northeastern block. Two gas tanks are labeled in the northeast corner of the Site. Coal is still being stored on the west side of the Site. A dust house is shown in the middle of the Site. An open elevator is shown in the central eastern area of the Site. A battery shop appears near the southeast corner of the Site.

Sanborn Maps – 1947
This map shows the filling station moved to the northeast corner of the Site. Three new gas tanks appear in the eastern central area. A battery & ignition service station can be seen in the central area of the Site. Also, an auto repair shop appears in the south-central area.

Sanborn Maps – 1963
In this map the Subject Site is shown in its current configuration. There is a concrete block enclosed elevator shown in the northwestern corner of the Site. The building is labeled as "Noncomb, 1957."

4.4.2 Aerial Photos

Several aerial photos showing the Subject Site were available through *GeoSearch* (searched April 28, 2019) and Google Earth™, and were reviewed by BCA. Aerial photographs for the following years were reviewed: 1939, 1952, 1962, 1967, 1977, 1984, 1986, 1992, 1998, 2003, 2005, 2006, 2007, 2008, 2010, 2012, 2014, and 2016. Copies of the aerial photos are included in Appendix G. The descriptions for each photo reviewed are written below.

1939 - 1952 Aerial Photographs
These photos indicate that there appear to be four structures on the Subject Site, but the photo resolution is insufficient to discern much detail.

1962 – 2016 Aerial Photographs
These photos indicate that the presence and arrangement of structures at the Subject Site appear consistent with current conditions on the property, with the commercial building visible on the western portion of the site and the parking lot visible on the eastern portion of the site.

4.4.3 City and County Directories

A search of city and county directories was performed by *GeoSearch* on April 30, 2019 and reviewed by BCA. Directories were searched from 1913 (the earliest reviewed) through 2016 for the Subject Site. Results of the search are included in Appendix H. The table below summarizes the former occupants of the Subject Site:

Address	Occupant	Years Listed
200 S. College	Hesler Bros. (Vulcanizing)	1922-1923
200 S. College	Hesler Bros. Battery & Tire Service	1927-1928
200 S. College	Abram Bros (Service Station)	1927 - 1955
202 S. College	Brown Ercell (Filling Station)	1950
204 S. College	King Noble Service Station & Garage	1955
204 S. College	King's Service Station & Garage	1945-1946
210 S. College	Phillips Petroleum Co. (Service Station)	1934-1935

Address	Occupant	Years Listed
210 S. College	Hesler Bros. (Vulcanizing)	1931-1932
210 S. College	Hughes Bros. Planing Mill	1927-1928
216 S. College	Harlos C E Inc.	1950 and 1955
220 S. College	Full-O-Pep Battery Station	1931-32 & 34-35 & 38-39
220 S. College	Full-O-Pen Battery Station	1927-28
220 S. College	Standard Oil Company (Service Station)	1934-35
220 S. College	Philadelphia Battery Service Co.	1922-23

4.4.4 Ownership History

Chain of Title for the Subject Site was not provided to BCA by the User. Based on the information obtained from the Monroe County Tax Assessor GIS property report card, the Subject Site is currently owned by Rbowa LLC, Thomas Sicks, and Nancy Held. Information on former owners is listed below:

Parcel	Current Owner	Dates	Immediate Past Owner	Dates
53-05-33-310-240.000-005	Rbowa, LLC	03/01/1995 to present	Indiana University Foundation	Unknown to 03/01/1995
53-05-33-310-243.000-005	Thomas Sicks & Nancy Held	03/02/2009 to present	Marilyn A. Sicks	09/27/1977 to 3/02/2009

No other information regarding previous ownership was found.

4.4.5 Other Records of Historical Use

No other records of historical use were found.

4.5 Historical Use Information on Adjoining Properties

4.5.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps were searched by *GeoSearch* on April 30, 2019 and reviewed by BCA. Maps covering the Subject Site and adjoining properties for the years 1883, 1887, 1892, 1898, 1907, 1913, 1927, 1947, and 1963 were reviewed. Copies of the Sanborn Maps are included in Appendix F. The descriptions for each map reviewed are provided below:

Sanborn Map - 1883

This map shows the passenger and freight depot connecting to the rail line north of the Site. This map doesn't include any western or southern properties.

Sanborn Map - 1887

This map is essentially the same as the map from 1883 with the exception that it shows Bloomington Electric Light and Power Co. to the west of the Site.

Sanborn Maps - 1892

This map is essentially the same as the 1887 map.

Sanborn Maps - 1898
This map shows the addition of Bloomington Gas Work to the west of the Site. A 20,000 cu ft. gasholder for storing natural gas is shown on the gas companies' property.

Sanborn Maps - 1907
This map shows a new 100,000 cu ft. natural gas AST to the west of the site. Also, to the west is a coal processing plant with a coking house. To the southwest is a small repair shop adjacent to the Site.

Sanborn Maps - 1913
This map is essentially the same as the map from 1907 with the exception of three oil tanks in the south-central area of the Central Indiana Lighting Co. and Gas Works to the west of the Site.

Sanborn Maps - 1927
There are six new tanks shown on the site to the west. The six new tanks are on the southeast side of the Central Indiana Lighting Co. and Gas Works site. To the east of the Subject Site is a new filling station where four gas tanks are shown around 120 W 3rd Street. To the south of the Subject Site is an auto sales building.

Sanborn Maps – 1947
This map shows a new filling station to the northwest catty-corner to the Subject Site. To the west is a new 160,000 cu ft. iron gasometer. Across College Ave. to the east of the Site is an auto sales and service business.

Sanborn Maps – 1963
This map shows two new auto shops adjacent to the site. One is to the southeast and the other is directly east of the Site. The filling station to the northwest is still in operation.

4.5.2 Aerial Photos

Several aerial photos for the area surrounding the Subject Site were available through *GeoSearch* (searched April 28, 2019) and Google Earth™, and were reviewed by BCA. Aerial photographs for the following years were reviewed: 1939, 1952, 1962, 1967, 1977,1984, 1986, 1992, 1998, 2003, 2005, 2006, 2007, 2008, 2010, 2012, 2014, and 2016. Copies of the aerial photos are included in Appendix G. The descriptions for each photo are written below:

1939 – 1962 Aerial Photographs
In these photographs, the structures visible on properties surrounding the Subject Site appear consistent with other images/maps seen. Two large gasometers can be seen clearly to the west of the Site. Contrast and resolution are insufficient to yield significant observations.

1967 Aerial Photograph
In this photograph, only the larger of the two gasometers remain to the west of the Site. The filling station to the northwest has been replace with a parking lot. The filling station to the east remains.

1977 – 1986 Aerial Photographs
In these photographs, no gasometers remain to the west of the site. The filling station to the east remains.

1992 Aerial Photograph
In this photograph, the area surrounding the Subject Site appears essentially the same as in the 1986 photograph with the exception of the removal of the filling station across the College Avenue to the east.

1998 Aerial Photograph
In this photograph, the area surrounding the Subject Site appears essentially the same as in the 1992 photograph with the exception of construction at the site of the former filling station to the northwest. There is what looks to be a large hole in the ground, possibly tank removal.

2003 Aerial Photograph
The area surrounding the Subject Site appears essentially the same as in the 1998 photograph; however, construction to the northwest has been completed.

2005 – 2007 Aerial Photographs
In these photographs, the area surrounding the Subject Site appears essentially the same as in the 2003 image.

2008 Aerial Photograph
The area surrounding the Subject Site appears essentially the same as in the 2007 photograph with the exception of the removal of the former auto shop to the southeast of the Subject Site.

2010 – 2016 Aerial Photographs
The area surrounding the Subject Site appears essentially the same as in the 2008 photograph and is in its current configuration.

Aerial Photographs – Additional General Comments/Observations
Several aerial photographs show a railroad spur just west of the Subject Site although scale, resolution, and/or contrast make it difficult to discern when this structure was present. BCA reviewed corresponding Sanborn Maps (see section 4.4.1) and historical Topographic Maps to better verify the presence of this structure. The rail spur is not observable in aerial photographs or topographic maps dated on or after 2005.

4.5.3 City and County Directories

A search of city and county directories was performed by *GeoSearch* on April 30, 2019 and reviewed by BCA. Directories were searched from 1913 (the earliest reviewed) through 2016 for the area surrounding the Subject Site. Results of the search are included in Appendix H. The table below summarizes the occupants of the adjoining and nearby properties which are relevant to this investigation.

Address	Occupant	Years Listed
211 S College Ave.	Jerry's Diagnostic Center (Auto Repair)	1986-1996
211 S College Ave.	Frosty's Dodge Inc. (Auto Dealer)	1981
211 S College Ave.	Sciscoe Dodge Inc. (Auto Dealer)	1971-1976
211 S College Ave.	Brown Paul Motor Sales	1966
213 S College Ave.	Sciscoe Sales and Service (Used Cars)	1986
217 S College Ave.	Standard Oil Station	1927-1928
221 S College Ave.	Carl J. Litten (Filling Station)	1945-1946
223 S College Ave.	Brown's Standard Service Gas Station	1966
223 S College Ave.	Walker Standard Service Station (Gas Station)	1950-1960
223 S College Ave.	College Ave. Garage / Motor & Sales Co.	1913-1917
300 S College Ave.	Graham Motor Sales Co	1927-1928
301 S College Ave.	Bloomington Tire Co.	1966-2006
301 S College Ave.	Graham Motor and Tractor	1927-1955
302 S College Ave.	Tom O'Daniel Motor Sales	1966-1986
302 S College Ave.	Graham Motor Sales Co.	1945-1955
118 W 3rd St.	Standard Oil Filling Station	1927-1928
302 W. 3rd St.	Indiana Gas Co.	1950-1971
308 W 3rd St.	Public Service Co. (Plant)	1931-1939

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The main site reconnaissance was conducted on April 18, 2019 by Mr. Rodney A. Manny, Field Geologist, and Leonard D. Hinrichs II, LPG of BCA, and accompanied by Kimberly Key, Vice President of Grant Properties (property manager). The site visit included observation of the Subject Site and adjoining sites for environmentally significant items, such as transformers, storage tanks, unusual cracks or ground discoloration, as well as significant commercial or industrial activity. Photographs were taken of conditions at the time of the site visit. During the site visit evaluation of adjoining properties were limited to observations from public rights-of-way or other public areas.

Notes of observations made during the site visit were made in a notebook and/or marked on a site map. Photographs were taken of items of interest.

5.2 General Site Setting

The Subject Site is situated in the City of Bloomington in a mixed residential/commercial area. One building is present on the Subject Site which is currently occupied by four commercial businesses. The remainder of the property is covered with paved parking (east and south sides of the building).

5.3 Exterior Observations

The Subject Site consists of two (2) parcels, divided into three (3) lots totaling approximately 1.7 acres of gently sloping land, with the street address of 216 South College Avenue, Bloomington, IN. The Site is currently an occupied commercial building with a concrete parking area. The commercial building is two stories high and consists of brick and steel on concrete slab construction (photos 1-4). City water, electricity, gas, and sewer services are currently available to the Subject Site.

The following were observed during the reconnaissance of the exterior of the Subject Site:

- A trench drain with what appeared to be an oil/water separator was observed in the concrete-paved parking area near the northwest corner of the onsite building. Two (2) separate concrete vaults with metal covers were observed. One of the vaults was able to be opened. It contained piping consistent with an older style oil/water separator or grease trap (photo 5).

- Two (2) sets of three pole-mounted electrical transformers were observed on the southwestern corner and northern edge of the Subject Site. Both sets of transformers were over paved surfaces. No labeling or other indication of PCB content was visible on the transformers, and all of them appeared to be in good condition, with no staining or other visual evidence of leakage or spillage (photo 2 & 6).

- Numerous storm drains were observed throughout the parking lot areas of the Subject Site. No evidence that any petroleum or hazardous materials have ever been spilled or placed in the storm drains was observed (photo 7).

- Three (3) 55-gallon steel drums labeled “racing gasoline” were observed on the paving outside the southwestern corner of the building (Campus Costume). The owner of the store indicated that he acquired the drums empty and was just storing them on the site temporarily in order to use them at a remote location for another purpose. The drums appeared to be essentially empty with the exception of one drum which appeared to contain < 3 gallons of rainwater, since the drum was open to the elements. No evidence of leakage or spillage from the drums was observed (photo 8).

The following were **not observed** to be present during the exterior reconnaissance of the Subject Site:

- Use or storage of hazardous chemicals
- Petroleum products
- ASTs
- USTs
- Solvents
- Degreasers
- Unidentified containers
- Ground staining
- Corrosion
- Sumps
- Pits
- Ponds or Lagoons
- Stained vegetation
- Wastewater systems
- Air emissions
- Odors
- Pools of liquid
- Wells - potable or monitoring wells
- Septic Systems

5.4 Interior Observations

The Subject Site consists of one (1) commercial building, located on the western half of the property. Access to the building was provided by Ms. Kim Key, Property Manager. The main is split between 4 separate businesses. The interior of the building was generally in good condition.

The following were observed during the reconnaissance of the interior of the Subject Site:

- A hydraulic powered elevator was observed in the northern portion of the

Subject Site building. The hydraulic mechanism was an integrated unit with an approximately 50-gallon reservoir in a small mechanical room next to the elevator. The unit appeared to be in excellent condition with no evidence of any leakage or spillage of hydraulic fluids (photo 9).

- Minor amounts of common household and commercial cleaners, lubricants, paints, and other maintenance chemicals were observed in several of the office spaces in the onsite building. All of the substances observed were typically in retail consumer sized (1-2 gallons or less) containers and no evidence of spillage, leakage, or intentional mishandling of these materials was observed (photo 10).

- Several floor drains were observed in bathrooms and utility rooms throughout the facility. None of the drains showed any signs of significant staining or other evidence that petroleum products or hazardous substances had ever been placed or spilled into them (photo 11).

The following were **not observed** or noted to be present during the interior reconnaissance of the Subject Site:

- ASTs
- USTs
- Solvents
- Degreasers
- Drums
- Unidentified containers
- Ground staining
- Corrosion
- Sumps
- Pits
- Ponds or Lagoons
- Stained vegetation
- Wastewater systems
- Air emissions
- Odors
- Pools of liquid
- Wells - potable or monitoring wells
- Septic Systems
- Electrical transformers

5.5 Observations on Adjacent Properties

Commercial retail outlets and a hotel adjoin the Subject Site across 4th Street to the north, commercial services adjoin to the east across S. College Ave., the Monroe County Convention Center adjoins the Subject Site to the south across 3rd Street, and a commercial service and a retail store are adjacent to the west of the Subject Site across the B-Line trail (photos 12-16) .

The following were **not observed** to be present on adjoining properties during the reconnaissance of the Subject Site:

- Use or storage of hazardous chemicals
- Petroleum products
- ASTs
- USTs
- Solvents
- Degreasers
- Drums
- Unidentified containers
- Ground staining
- Corrosion
- Sumps
- Pits
- Ponds or Lagoons
- Stained vegetation
- Wastewater systems
- Air emissions
- Odors
- Pools of liquid
- Wells - potable or monitoring wells
- Septic Systems
- Electrical transformers

6.0 INTERVIEWS

6.1 Interview with Site Owner

The Subject Site is currently owned by Rbowa LLC, Thomas Sicks, and Nancy Held. Ms. Kim Key, Property Manager, answered questions on behalf of the site owner about her knowledge of the Subject Site on April 18, 2019. Ms. Key stated that her understanding of the past uses of the property were as a restaurant and as a grocery store. Ms. Key indicated that she had no knowledge of any environmental liens or AULs filed or recorded against the property. She also indicated that she was not aware of any spills or chemical releases that have taken place on the site. She was not aware that any environmental assessments or enforcement actions were ever implemented on The Subject Site.

6.2 Interview with Site Manager

See Section 6.1 above.

6.3 Interview with Site Occupant

See Section 6.1 above.

6.4 Interview with Local Government Official

See Section 6.5 below.

6.5 Interview with Others

Mr. Brian Payne, Assistant Director, Office of Economic and Sustainable Development, City of Bloomington, IN was contacted via e-mail on May 9, 2019. Mr. Payne indicated that he was not aware of any environmental cleanup liens or any AULs filed or recorded against the Subject Site. He stated that he was aware of some of the past uses of the property, but he had no knowledge of any specific chemicals present or previously present on the property. He was not aware of any environmental cleanups ever having taken place on the property, and he indicated that he did not know of any obvious indicators of contamination or chemical releases at the facility. He believed that the purchase price being paid for the property is reflective of market value. Mr. Payne completed the AAI User Questionnaire for this report (dated 05/09/2019). A signed copy of the questionnaire is provided in Appendix C.

7.0 EVALUATION

7.1 Findings

Phase I findings identify known or suspected environmental conditions associated with the property, including recognized environmental conditions (REC), controlled recognized environmental conditions (C-REC), historical recognized environmental conditions (H-REC), vapor encroachment conditions (VEC) and *de minimis* conditions, among other environmental conditions. *De minimis* conditions are those that are judged to not to present a material risk of harm to health or the environment. Controlled RECs include past releases that have been addressed to the satisfaction of the applicable regulatory authority, with contaminants allowed to remain in place subject to the implementation of required controls. Historical RECs include records of past releases that have been remediated to the satisfaction of the governing regulatory agency. Vapor Encroachment Conditions (VECs) are potential releases that involve volatile organic compounds that could result in vapor intrusion to structures on the subject site. BCA's opinions regarding each of the findings below are listed in Section 7.2. The following environmental conditions were found during this investigation:

1. Commercial Building (Subject Site), 216 S. College Avenue
   The Subject Site was historically a former livery and lime, coal, and lumber storage facility from as far back as the early 1880s through at least 1913; the location of filling stations and battery & ignition service shops from at least 1927 until sometime after 1947; and a costume shop and financial and law offices since around 1963. The property was located along a main railroad line (adjoining to the west) until it was converted into the B-Line rail trail in the early 2010s.

   - The historical presence of a rail spur on the western portion of the Subject Site along with coal storage piles is a REC.

   - The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the Subject Site from the 1920s through at least the late 1940s with no documentation of proper closure is a REC.

   - The historical presence of two (2) battery and ignition service stations in the north-central portion of the Subject Site from the 1920s through at least the late 1940s, with no information on the operations that took place. Possible chemical releases associated with the historical battery service stations on site are a REC.

   - Vulcanizing activities were reported to historically have been present on the Subject Site. These activities are associated with the use of many different chemicals, including potential VOCs, PAHs, and metals. As such, this is a REC.

- The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site is a REC.

- Two (2) sets of three pole-mounted electrical transformers were observed on the southwestern corner and northern edge of the Subject Site. No labeling or other indication of PCB content was visible on the transformers, and all of them appeared to be in good condition, with no staining or other visual evidence of leakage or spillage. The transformers were situated over paved surfaces and are likely owned by the electrical utility who would be responsible for any spills or leakage. This is a *de minimis* condition.

- Numerous storm drains were observed throughout the parking lot areas of the Subject Site. No evidence that any petroleum or hazardous materials have ever been spilled or placed in the storm drains was observed. This is a *de minimis* condition.

- Three (3) 55-gallon steel drums labeled “racing gasoline” were observed on the paving outside the southwestern corner of the building (Campus Costume). The owner of the store indicated that he acquired the drums empty and was just storing them on the site temporarily in order to use them at a remote location for another purpose. The drums appeared to be essentially empty with the exception of one drum which appeared to contain < 3 gallons of rainwater, since the drum was open to the elements. No evidence of leakage or spillage from the drums was observed. This is a *de minimis* condition.

- A hydraulic powered elevator was observed in the northern portion of the Subject Site building. The hydraulic mechanism was an integrated unit with an approximately 50-gallon reservoir in a small mechanical room next to the elevator. The unit appeared to be in excellent condition with no evidence of any leakage or spillage of hydraulic fluids. This is a *de minimis* condition.

- Minor amounts of common household and commercial cleaners, lubricants, paints, and other maintenance chemicals were observed in several of the office spaces in the onsite building. All of the substances observed were typically in retail consumer sized (1-2 gallons or less) containers and no evidence of spillage, leakage, or intentional mishandling of these materials was observed. This is a *de minimis* condition.

- Several floor drains were observed in bathrooms throughout the offices

in the facility. None of the drains showed any signs of significant staining or other evidence that petroleum products or hazardous substances had ever been placed or spilled into them. This is a *de minimis* condition.

2. Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street)
   This historical use of this property, adjoining the Subject Site to the west across the B-Line Trail, as a manufactured gas plant site, is a REC, especially since it is directly upgradient from the Subject Site with respect to measured groundwater flow direction.

3. Josephine Brown Trust Property, 211 & 213 S. College Avenue
   This site, located adjoining east-southeast of the Subject Site across S. College Avenue, historically operated as an automotive dealership, auto repair shop, gasoline service station, and automotive rental facility. A 1997 site remediation report indicated that seven (7) underground storage tanks were removed from the site in 1995, and a total of 1,600 tons of contaminated soil were removed from the site for disposal. In addition, a groundwater monitoring well on the site indicated elevated levels of PCE and TCE in groundwater. However, the site received a Site Status Letter from IDEM in October 1998 granting site closure with no restrictions for redevelopment. Since this site is downgradient to cross-gradient from the Subject Site, it is unlikely to have materially affected the environmental conditions of the Subject Site. This is a *de minimis* condition.

4. Bloomington Tire Co, 301 S. College Avenue.
   This former automotive repair facility located adjoining southeast of the Subject Site across S. College Avenue and 3rd Street, was the location of a lust incident related to a waste oil tank and several hydraulic lifts. Although the site has been redeveloped as part of the Bloomington Convention Center, some contamination remains including soil (metals, PAHs, PCBs, and petroleum constituents), and groundwater (including PCE, VC, and various PAHs) most likely from and offsite source to the northeast or east across S. Walnut Street. An ERC prohibiting groundwater use, limiting soil excavation, and maintaining an impervious cap over the site is in place. However, since this site is located downgradient from the Subject Site with respect to measured groundwater flow direction, it is unlikely to have materially affected the environmental conditions of the Subject Site. This is a *de minimis* condition.

5. Bloomington Ford, 302 S. College Avenue
   This former auto dealership located adjoining south of the Subject Site across E. 3rd Street had one (1) 300-gallon used oil UST removed, and one (1) 1,000-gallon gasoline UST closed in place in March 1991. In addition, another UST of unknown size and contents was also removed from the site in 1986. An NFA letter was granted to the site in July 2016. Due to the location of this site down-gradient from the Subject Site, this is a *de minimis* condition.

6. Wonderlab Museum, 308 W. 4th Street
   This former gasoline service station is located adjoining northwest of the Subject Site, across W. 4th Street. According to documentation, five (5) USTs were discovered on site in April 1997 and removed in 1998. In April 2002, a 1,000-gallon waste oil and 1,000-gallon heating oil UST were discovered removed from the property. Over-excavation and offsite disposal of 432 tons of petroleum-impacted soil the UST pits was performed. An NFA letter was awarded by IDEM to the site in July 2002 after results of soil and groundwater sampling came back below action levels. This is a *de minimis* condition.

7. Other Sites
   In addition to the sites listed above, two (2) CERCLIS NFRAP sites, two (2) RCRA Corrective Action site, two (2) RCRA TSD sites, 16 State Listed Cleanup sites, 20 LUST sites, one (1) Voluntary Cleanup site, and 13 State and U.S. Brownfield Program sites are located within the respective search radii of the ASTM and AAI Standard. However, these sites are located downgradient from the Subject Site, have received No Further Action status, or are low priority w/ soil contamination only. As such, these sites are considered *de minimus* conditions with respect to the Subject Site.

7.2 Opinion

7.2.1 Contaminant Migration

Releases on and near the Subject Site are likely to migrate vertically until contact with groundwater and then laterally in the down-gradient direction. Based on information found in the previous assessments of the site to the east of the Subject Site, groundwater flow at the Subject Site is likely to be to the south-southeast toward Clear Creek, located approximately 0.4 mile to the southeast of the Subject Site.

Because of the above considerations, releases at properties located to the northwest and north (upgradient) of the Subject Site could potentially have an impact on the site. Releases at properties immediately adjoining to the east and west (cross-gradient) of the Subject Site could impact the Subject Site only if they are very near; however; releases farther away in these directions would not. Because radial spread of contaminants is common at the source, especially in the shallow soil or smear zone at the top of the water table, releases that took place very near the Subject Site may have affected it even if the site is downgradient (south and southeast) of the Subject Site.

Vapors from releases to the groundwater could migrate through the subsurface via loose and unconsolidated soils, utility conduits and trenches, and disturbed or excavated soils. Vapors can accumulate beneath structures, asphalt and concrete pads or parking lots, and in poorly ventilated buildings. Vapors from sources and impacted groundwater near the Subject Site could impact structures around the Subject Site. The current IDEM guidance indicates potential for vapor intrusion

from groundwater impacted above screening levels at a lateral distance of 25 feet for petroleum and 100 feet for chlorinated volatile organic compounds.

7.2.2 Evaluation of Identified Environmental Conditions

This section presents BCA's opinions regarding RECs and VECs identified in Section 7.1.

1. Commercial Building (Subject Site), 216 S. College Avenue
   The Subject Site was historically a former livery and lime, coal, and lumber storage facility from as far back as the early 1880s through at least 1913; the location of filling stations and battery & ignition service shops from at least 1927 until sometime after 1947; and a costume shop and financial and law offices since around 1963 to the present. The property is located along a former main railroad line (adjoining to the west) until it was converted into the B-Line rail trail in the early 2010s.

   - The historical presence of a rail spur on the western portion of the Subject Site along with coal storage piles is an environmental concern. Rail spurs typically contain coal ash & cinders (CAC) along their former railbeds, which can often contain elevated concentrations of PAHs and heavy metals, impacting subsurface soils.

   - The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the Subject Site from the 1920s through at least the late 1940s is an environmental concern. No closure documentation was found for these former facilities. It is unlikely, due to the timeframe that the gas stations operated, that any soil or groundwater sampling was performed.

   - The historical presence of two (2) battery and ignition service stations in the north-central portion of the Subject Site from the 1920s through at least the late 1940s is an environmental concern. No information regarding the operations that took place at these facilities was found. However, possible contaminants associated with battery manufacturing/repair/service include heavy metals like lead, cadmium, and zinc, as well as acids such as sulfuric acid.

   - Vulcanizing activities were reported to historically have been present on the Subject Site. These activities are associated with the use of many different chemicals, including potential VOCs, PAHs, and metals. This is an environmental concern

   - The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site is an environmental concern, especially since no information was found

on what the unit was used for. It is possible that a former restaurant, reported to have operated in the Subject Site building during an unspecified time, could have used the unit as a grease trap. However, the purpose of the associated exterior trench drain is unknown, and no information on what chemicals or petroleum products may have been placed in the unit was found.

2. Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street)
   The presence of this former manufactured gas plant site, adjoining the Subject Site to the west across the B-Line Trail, is an environmental concern, especially since it is directly upgradient from the Subject Site with respect to measured groundwater flow direction. This site has been in the Indiana Voluntary Remediation Program (VRP) since approximately 2004. Available documentation shows investigation of the site through approximately 2007; however, no reports or documentation of completion subsequent to that date were found in the VFC. Based on the reports reviewed, contaminants of concern in groundwater remaining on the site at concentrations exceeding IDEMs guidelines include: the VOCs benzene and naphthalene and various PAHs.

7.3 Conclusions

We have performed a Phase I Environmental Site Assessment of the Subject Site located at 802 Spring Street, Bloomington, Indiana in conformance with the scope and limitations of ASTM Practice E1527-13. Exceptions to, or deletions from this practice are described in Section 2.5 of this report. Detailed findings and opinions regarding the Subject Site and surrounding sites are included in Sections 7.1 and 7.2 above. This assessment has revealed no evidence of Recognized Environmental Conditions currently in connection with the property, except:

3. Commercial Building (Subject Site), 216 S. College Avenue
   The Subject Site was historically a former livery and lime, coal, and lumber storage facility from as far back as the early 1880s through at least 1913; the location of filling stations and battery & ignition service shops from at least 1927 until sometime after 1947; and a costume shop and financial and law offices since around 1963 to the present. The property is located along a former main railroad line (adjoining to the west) until it was converted into the B-Line rail trail in the early 2010s.

   - The historical presence of a rail spur on the western portion of the Subject Site along with coal storage piles is an environmental concern.

   - The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the Subject Site from the 1920s through at least the late 1940s is an environmental concern.

- The historical presence of two (2) battery and ignition service stations in the north-central portion of the Subject Site from the 1920s through at least the late 1940s is an environmental concern

- Vulcanizing activities, reported to historically have been present on the Subject Site, are an environmental concern

- The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site is an environmental concern.

4. Former Central Indiana Lighting & Gas Works, 302 W. 3rd Street (aka Indiana Gas Company, Inc., 205 S. Madison Street)
   The presence of this former manufactured gas plant site, adjoining the Subject Site to the west across the B-Line Trail, is an environmental concern, especially since it is directly upgradient from the Subject Site with respect to measured groundwater flow direction.

7.4 Deviations and Data Gaps

There have been no data gaps or deviations from the scope of work requested by the client during the preparation of this report.

7.5 Additional Services

No additional services beyond the scope of the ASTM Standard were provided in the preparation of this Phase I report. Additional services can include: FEMA flood plains map, wetland inventory maps, and an EPA Radon Map.

7.6 Signatures of Environmental Professionals

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Leonard D. Hinrichs II, LPG
Senior Project Manager
May 29, 2019

8.0 NON-SCOPE SERVICES

8.1 Recommendations

Based on the conclusions of this Phase I ESA, BCA makes the following recommendations:

Conduct a soil and groundwater investigation (Phase II ESA) on the Subject Site to determine what, if any, releases have occurred and whether past activities on the Subject Site and/or other nearby sites have impacted the soil and groundwater beneath the Subject Site.

8.2 Other Non-Scope Considerations

No other non-scope services beyond the recommendations above were provided in the preparation of this Phase I report. Additional services can include: lead based paint and/or asbestos surveys.

9.0 REFERENCES

1. Fenelon, J. M., Hydrogeologic Atlas of Aquifers in Indiana. U. S. Geologic Survey Water-Resources Investigations Report 92-4142. United States Geologic Survey, Indianapolis, Indiana, 1994.

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3. Gray, Henry H., et al, *Bedrock Geologic Map of Indiana, Indiana Geological Survey, Indiana Department of Natural Resources, Bloomington, Indiana, Map, 1987.*

4. Gray, Henry H., *Quaternary Geologic Map of Indiana, Indiana Geological Survey, Indiana Department of Natural Resources, Bloomington, Indiana, Map, 1989.*

5. Hill, John R., *Indiana's Natural Regions. Indiana Geological & Water Survey*

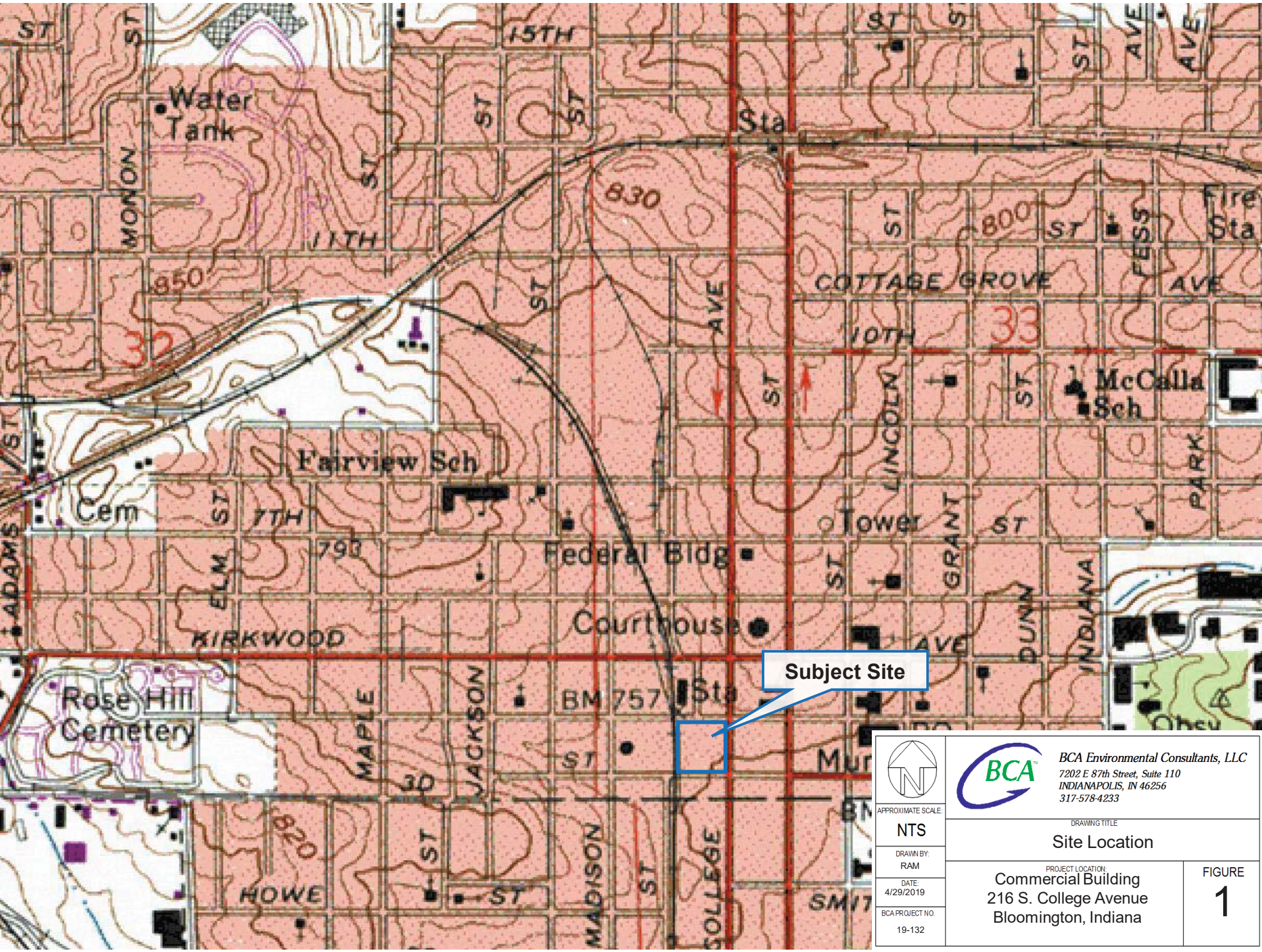
6. Monroe County, Indiana GIS Mapping, *Elevate™ Monroe County, Indiana - Available online at https://monroein.elevatemaps.io/*

7. Randal D. Maier, *Bedrock Aquifer Systems of Monroe County, Indiana Division of Water, Resource Assessment Section (July 2003)*

8. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture, *Web Soil Survey.* Available online at: http://websoilsurvey.nrcs.usda.gov/ Accessed 04/26/2019.

Figures

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404



	BCA Environmental Consultants, LLC 7202 E 87th Street, Suite 110 INDIANAPOLIS, IN 46256 317-578-4233
APPROXIMATE SCALE: NTS	DRAWING TITLE: Site Location
DRAWN BY: RAM DATE: 4/29/2019 BCA PROJECT NO. 19-132	PROJECT LOCATION: Commercial Building 216 S. College Avenue Bloomington, Indiana
	FIGURE 1

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
INDIANAPOLIS, IN 46256
317-578-4233

APPROXIMATE SCALE: NTS

DRAWN BY: LDH

DATE: 5/15/19

BCA PROJECT NO. 19-132

DRAWING TITLE

2016 Aerial Photo

PROJECT LOCATION:

Commercial Building
216 S. College Avenue
Bloomington, Indiana

FIGURE 2

Photographs

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

Photo 1: Subject Site building & parking lot – east side

Photo 2: North side of the building and pole mounted transformers.

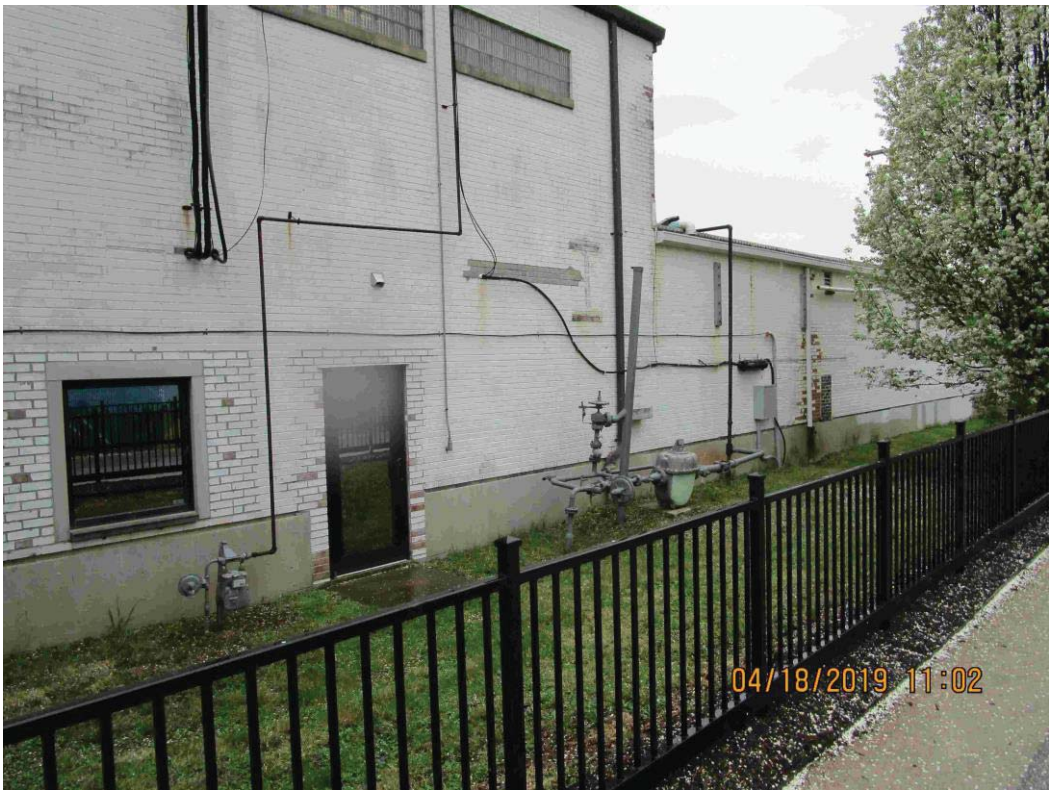


Photo 3: West side of the building along B-Line Trail.

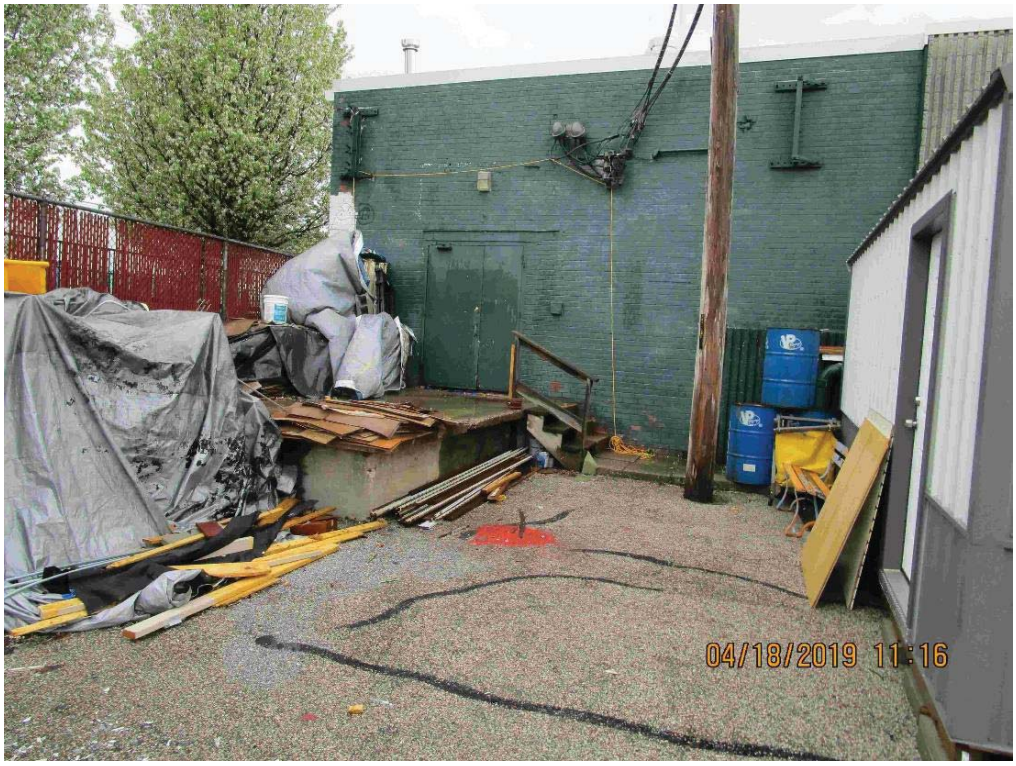


Photo 4: Southwest corner of building.

Photo 5: Suspected oil/water separator and trench drain.

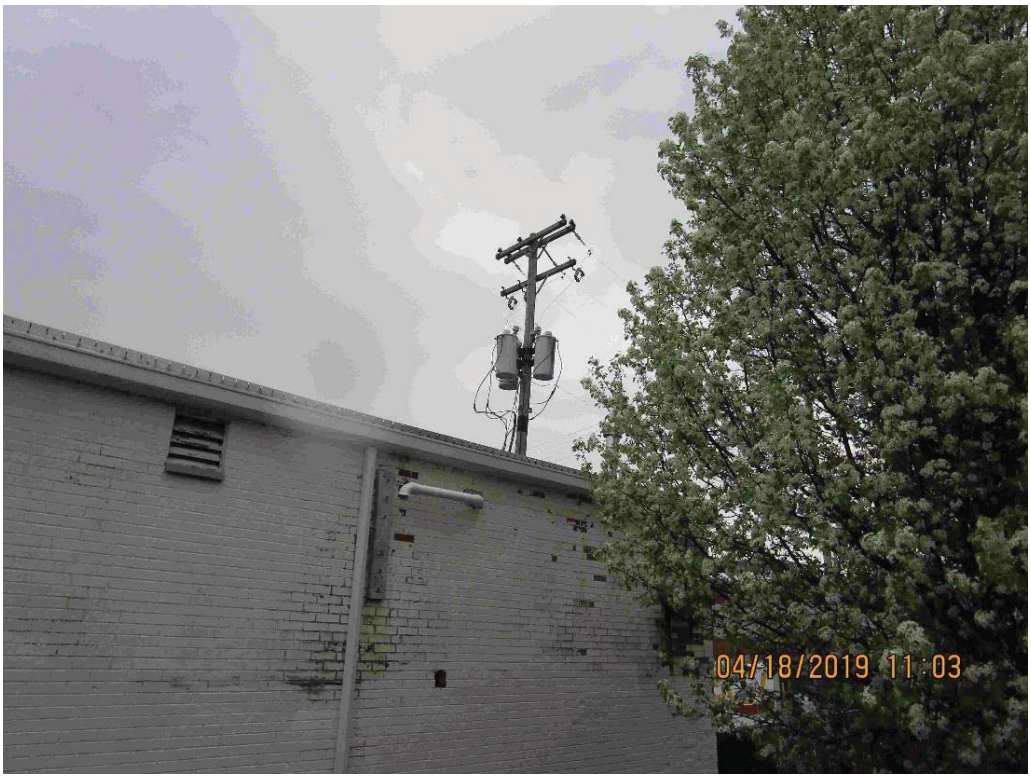


Photo 6: Pole mounted transformers on south side of building

Photo 7: Storm drain in parking lot.

Photo 8: Empty drums that formerly contained racing gasoline.

Photo 9: Hydraulic elevator equipment in central part of building.

Photo 10: Typical storage room with cleaning and maintenance chemicals.

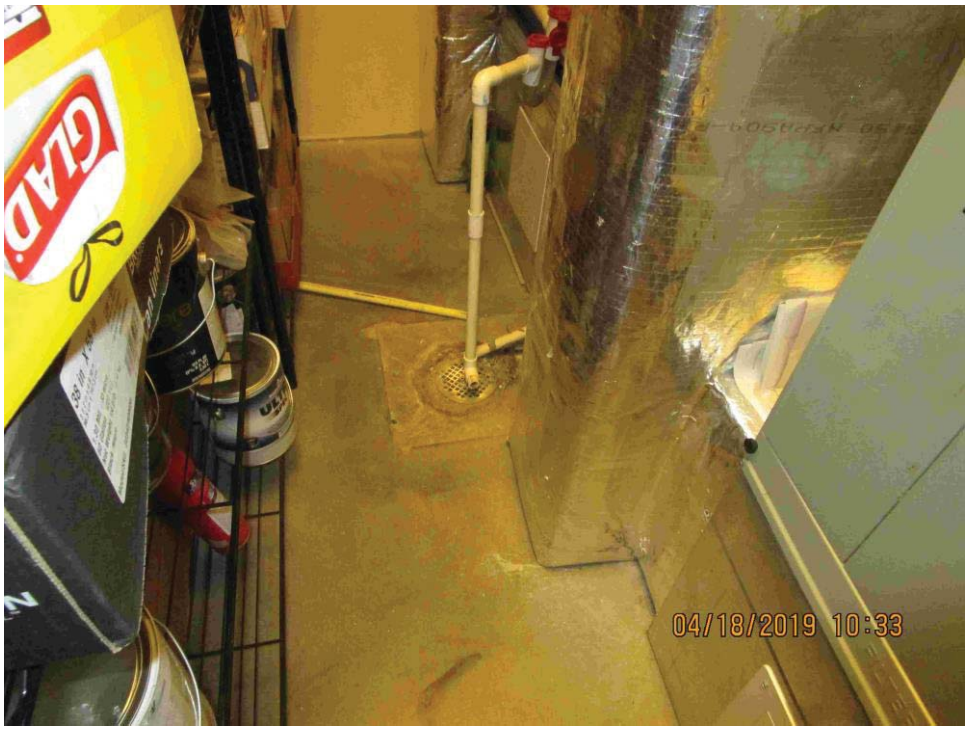


Photo 11: Typical floor drain in utility/storage room.

Photo 12: Wonderlab adjoining to the northwest across 4th St.

Photo 13: Commercial properties adjoining to the north across 4th St.

Photo 14: Commercial property adjoining to the northeast across S. College Ave.

Photo 15: Commercial properties adjoining to the east across S. College Ave.

Photo 16: Bloomington Convention Center adjoining to the south across 3rd St.

Appendix A

Qualifications of Environmental Professionals

Commercial Building
216 South College Avenue
Bloomington, IN 47404

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

LEONARD D. HINRICHS II, LPG, SENIOR PROJECT MANAGER

Leonard D. Hinrichs II, Business Development Manager and Senior Geologist in BCA's Indianapolis office, has a B.S. degree in Geology from Western Illinois University. He has over 23 years of progressive environmental consulting and management experience focused principally on projects for industrial, commercial, and government clients throughout the United States. He has managed numerous due-diligence, site characterization, remediation, and emergency response projects involving petroleum and hazardous substances at sites regulated under CERCLA, RCRA, and analogous state programs. This includes contaminated site investigation (Phase I and Phase II Environmental Site Assessments), soil and groundwater contaminant investigations, site remediation and planning, regulatory compliance, emergency response, brownfields redevelopment, grant administration, and business development. Mr. Hinrichs is a Licensed Professional Geologist and a Licensed Asbestos Building Inspector.

Appendix B

Environmental Lien & AUL Search

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

GeoSearch
On time. On target. In touch.™

Environmental Lien

Target Property:

Commercial Property
216 S College Ave
Bloomington, Monroe County, Indiana 47404

Prepared For:

BCA Environmental-Indianapolis

Order #: 125529
Job #: 290701
Project #: 19-132
PO #: 19-132
Date: 05/01/2019

phone: 888-396-0042 · fax: 512-472-9967 · www.geo-search.com

TARGET PROPERTY SUMMARY

Commercial Property
216 S College Ave
Bloomington, Monroe County, Indiana 47404

USGS Quadrangle: ***Bloomington, IN***
Target Property Geometry: ***Area***

Target Property Longitude(s)/Latitude(s):
(-86.536001, 39.165533), (-86.534987, 39.165533), (-86.534987, 39.164726), (-86.536001, 39.164726), (-86.536001, 39.165533)

County/Parish Covered:
Monroe (IN)

Zipcode(s) Covered:
Bloomington IN: 47401, 47403, 47404, 47405, 47408

State(s) Covered:
IN

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GeoSearch
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ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Monroe County Recorders Records for "Environmental Liens" only on the subject property as identified as 216 S. College Ave., Bloomington, IN. Tax Parcel No. 53-05-33-310-240.005 and find the following:

None found

We have done a search of Monroe County Recorders Records for "Activity and Use Limitations" (AUL's) only on the subject property as identified as 216 S. College Ave., Bloomington, IN. Tax Parcel No. 53-05-33-310-240.005 and find the following:

None found

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ENVIRONMENTAL LIEN/AUL SEARCH

We have done a search of Monroe County Recorders Records for "Environmental Liens" only on the subject property as identified as Tax Parcel No. 53-05-33-310-243.005, Bloomington, IN. and find the following:

None found

We have done a search of Monroe County Recorders Records for "Activity and Use Limitations" (AUL's) only on the subject property as identified as Tax Parcel No. 53-05-33-310-243.005, Bloomington, IN. and find the following:

None found

Appendix C

All Appropriate Inquiry User Questionnaire

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

ALL APPROPRIATE INQUIRY USER QUESTIONAIRE

PROJECT DESCRIPTION: Commercial Property PROJECT NO: 19-132

SITE ADDRESS: 216 S. College Avenue, Bloomington, Indiana 47404

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

NOTE 1— In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Yes (No)

(2.) Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?

Yes (No)

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? If yes, please describe as specifically as possible.

Yes (No)

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

(a.) Does the purchase price being paid for this *property* reasonably reflect the fair market value?

(Yes) No

(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Yes (No)
If yes, please explain:

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30)

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,

(a.) Do you know the past uses of the *property*?

(Yes) No

(b.) Do you know of specific chemicals that are present or once were present at the *property*?

Yes (No)

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?

Yes (No)

(d.) Do you know of any environmental cleanups that have taken place at the *property*?

Yes (No)

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?

(Yes) No

If yes, please describe as specifically as possible. - proximity to railroad

Brian Payne

Signature

5/9/19

Date

Brian Payne, Asst Dir., ESD

Printed Name and Title

Appendix D

GeoSearch Data Search

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

GeoSearch
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Radius Report

GeoLens by GeoSearch

Target Property:

Commercial Property
216 S College Ave
Bloomington, Monroe County, Indiana 47404

Prepared For:

BCA Environmental-Indianapolis

Order #: 125529
Job #: 290699
Project #: 19-132
PO #: 19-132
Date: 04/26/2019

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Unlocatable Report . . . . . See Attachment

Zip Report . . . . . See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR ï¿½312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR ï¿½312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

Commercial Property
216 S College Ave
Bloomington, Indiana 47404

Coordinates
Area centroid (-86.535494, 39.1651295)
751 feet above sea level

USGS Quadrangle
Bloomington, IN

Geographic Coverage Information

County/Parish: Monroe (IN)
ZipCode(s):
Bloomington IN: 47401, 47403, 47404, 47405, 47406, 47408

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSIN	0	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR05	3	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR05	8	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	3	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	2	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	2	6	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	2	1	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	1	1	1.0000

SUB-TOTAL		21	8	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR05	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSIN	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR05	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR05	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR05	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	0	0	TP/AP
ALTERNATIVE FUELING STATIONS	ALTFUELS	1	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	0	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000
SUB-TOTAL		1	0	

Database Summary

STATE (IN) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INSTITUTIONAL ENGINEERING CONTROLS REGISTRY	ICEC	0	0	TP/AP
REGISTERED UNDERGROUND STORAGE TANKS	RUST	10	0	0.2500
BROWNFIELD SITES	BF	13	0	0.5000
LANDFILL SITES	LF	0	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS	LUST	21	0	0.5000
OPEN DUMP WASTE SITES	INOPENDUMP	0	0	0.5000
SOLID WASTE FACILITIES	SWF	0	0	0.5000
VOLUNTARY CLEANUP SITES	VCP	2	0	0.5000
WASTE DISPOSAL SITES	WDS	0	0	0.5000
STATE SUPERFUND SITES	SF	1	0	1.0000
SUB-TOTAL		47	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
IDEM CLEANED CLANDESTINE DRUG LABS	CLEANCDL	0	0	TP/AP
SPILLS LISTING	SPILLS	0	0	TP/AP
STATE POLICE DRUG LAB LOCATIONS	SPCDL	0	0	TP/AP
TIER II FACILITIES	TIERII	0	0	TP/AP
INDUSTRIAL WASTE SITES	ININDWASTE	2	0	0.2500
OFFICE OF INDIANA STATE CHEMIST DATABASE	OISC	1	0	0.2500
CONFINED ANIMAL FEEDING OPERATION PERMITS	CAFO	0	0	0.5000
STATE CLEANUP SITES	SCP	17	0	0.5000
WASTE TIRE SITES	TIRE	0	0	0.5000
SUB-TOTAL		20	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR05	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR05	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	

TOTAL		89	8	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR05	0.0200	0	NS	NS	NS	NS	NS	0
ERNSIN	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
FRSIN	0.0200	0	NS	NS	NS	NS	NS	0
HMIRSR05	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR05	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR05	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
RCRAGR05	**0.1250**	**0**	**3**	**NS**	**NS**	**NS**	**NS**	**3**
RCRANGR05	**0.1250**	**0**	**8**	**NS**	**NS**	**NS**	**NS**	**8**
ALTFUELS	0.2500	0	0	1	NS	NS	NS	1
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**3**	**NS**	**NS**	**3**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**2**	**NS**	**NS**	**2**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**2**	**NS**	**NS**	**2**
SMCRA	0.5000	0	0	0	0	NS	NS	0
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**2**	**0**	**NS**	**2**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**1**	**0**	**NS**	**1**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	11	1	10	0	0	22

Database Radius Summary

STATE (IN) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
CLEANCDL	0.0200	0	NS	NS	NS	NS	NS	0
ICEC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SPCDL	0.0200	0	NS	NS	NS	NS	NS	0
SPILLS	0.0200	0	NS	NS	NS	NS	NS	0
TIERII	0.0200	0	NS	NS	NS	NS	NS	0
ININDWASTE	0.2500	0	1	1	NS	NS	NS	2
OISC	0.2500	0	0	1	NS	NS	NS	1
RUST	**0.2500**	**0**	**6**	**4**	**NS**	**NS**	**NS**	**10**
BF	**0.5000**	**0**	**6**	**2**	**5**	**NS**	**NS**	**13**
CAFO	0.5000	0	0	0	0	NS	NS	0
INOPENDUMP	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
LF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
LUST	**0.5000**	**0**	**5**	**5**	**11**	**NS**	**NS**	**21**
SCP	0.5000	0	4	5	8	NS	NS	17
SWF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
TIRE	0.5000	0	0	0	0	NS	NS	0
VCP	**0.5000**	**0**	**2**	**0**	**0**	**NS**	**NS**	**2**
WDS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SF	**1.0000**	**0**	**0**	**0**	**0**	**1**	**NS**	**1**

SUB-TOTAL		0	24	18	24	1	0	67

Database Radius Summary

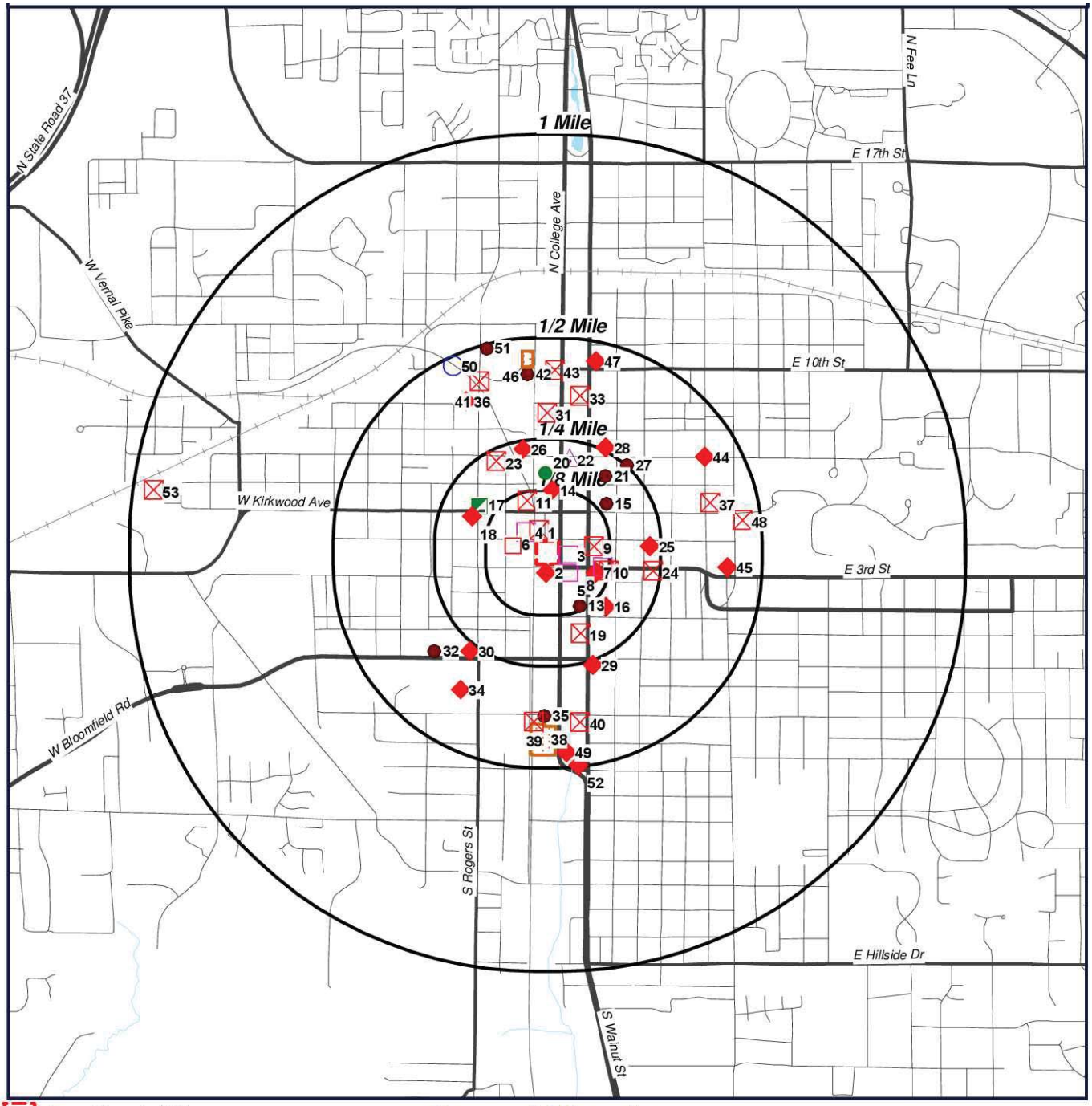
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR05	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR05	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		0	35	19	34	1	0	89

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



Target Property (TP)
SCP
LUST
RCRANGR05
RCRAGR05
BF
ININDWASTE
ALTFUELS
OISC
BF
BF
RCRAT
RCRAC
SEMSARCH
SF

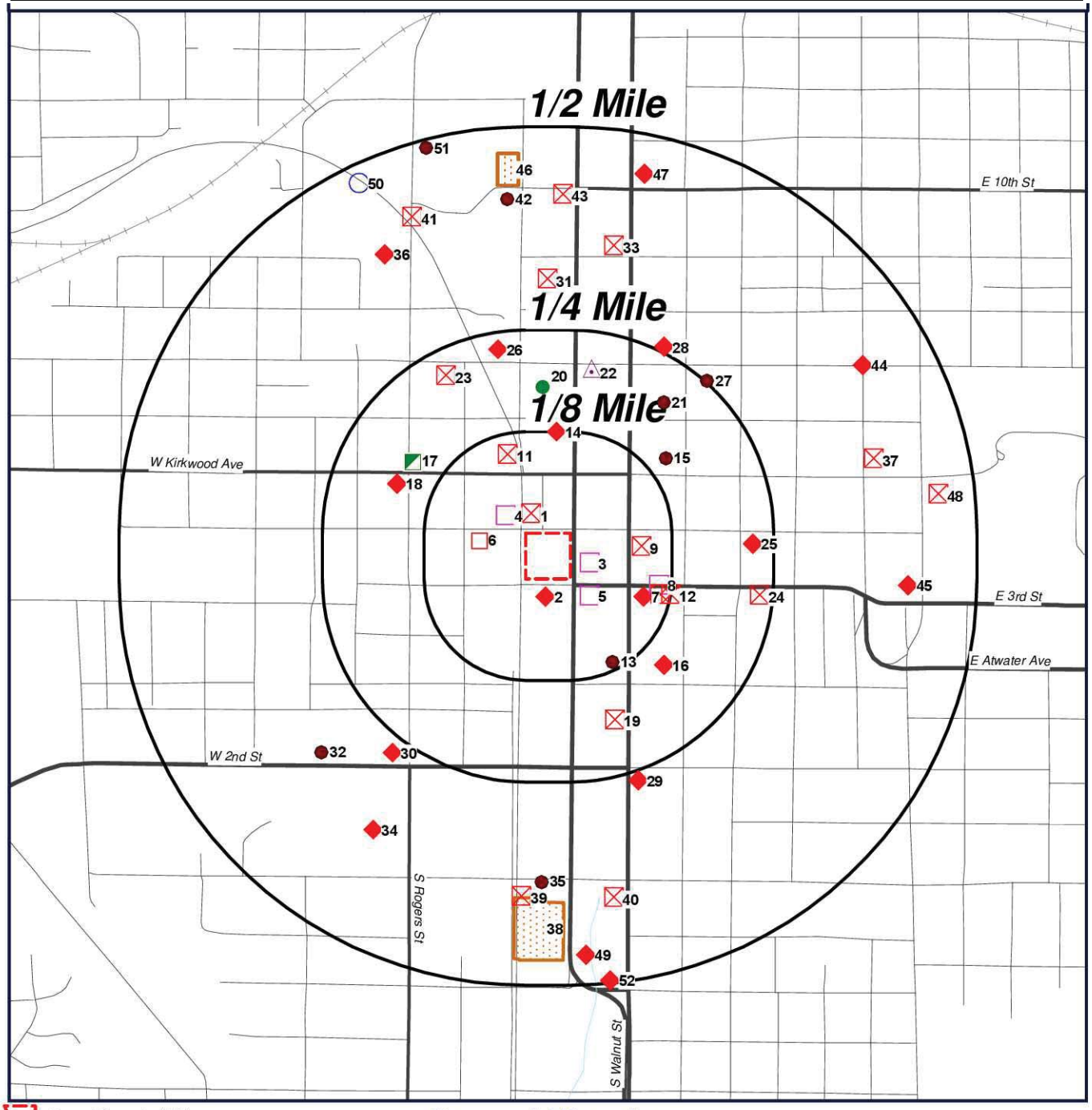
Commercial Property
216 S College Ave
Bloomington, Indiana
47404

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

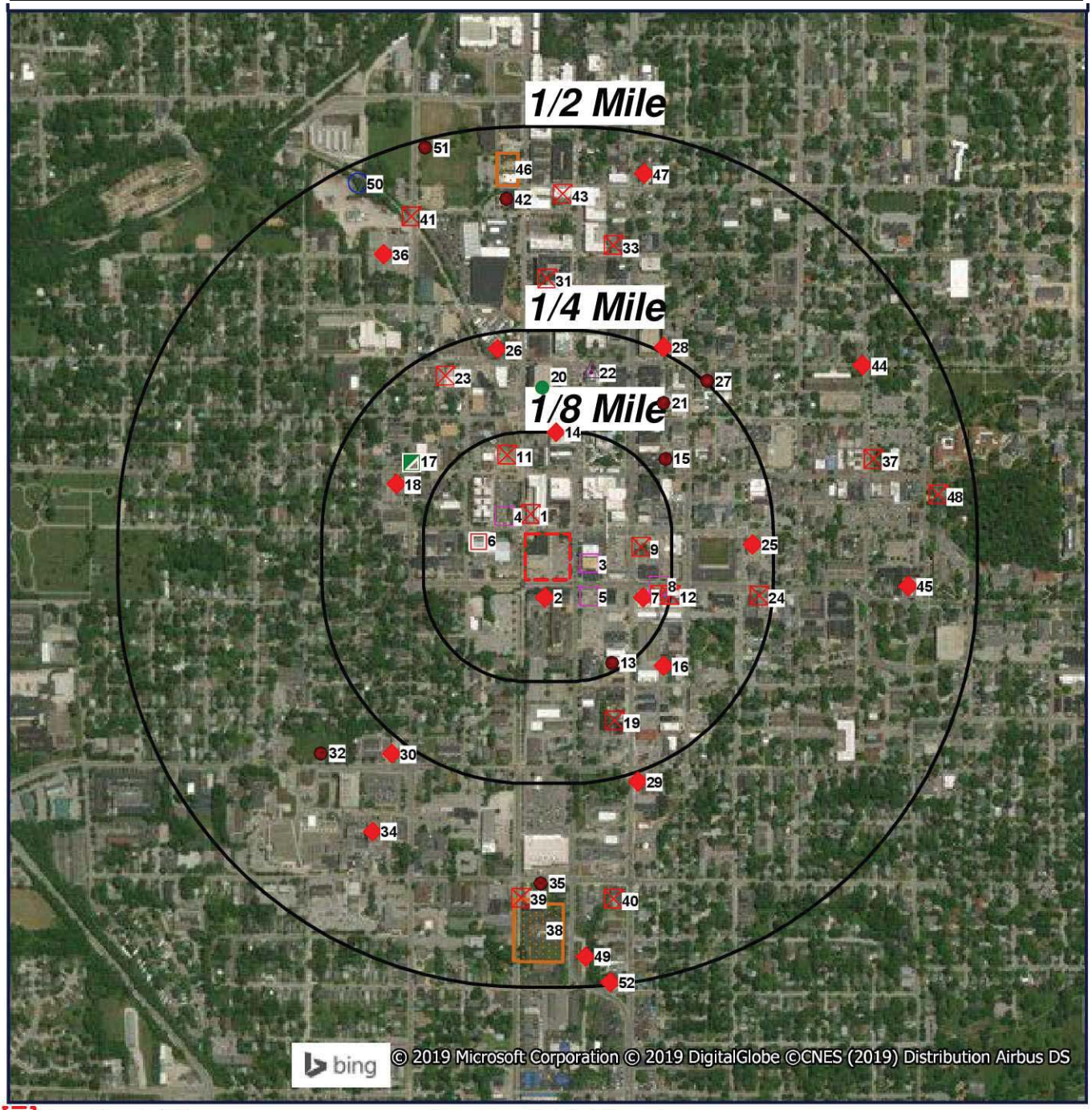
Click here to access Satellite view

Radius Map 2



Click here to access Satellite view

Ortho Map



Target Property (TP)
SCP
LUST
RCRANGR05
RCRAGR05
BF
ININDWASTE
ALTFUELS
OISC

BF
BF
RCRAT
RCRAC
SEMSARCH
SF

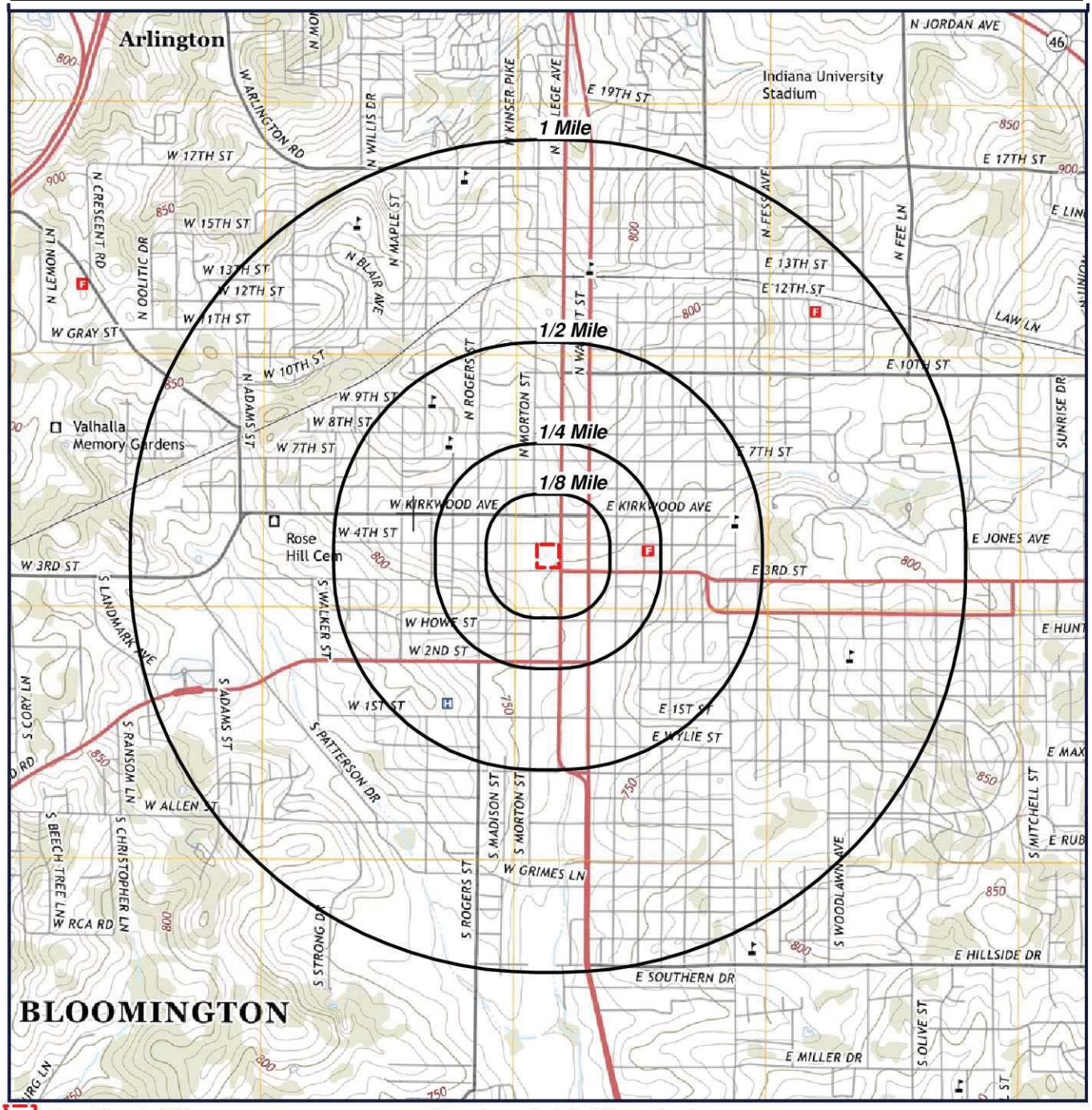
Quadrangle(s): Bloomington
Commercial Property
216 S College Ave
Bloomington, Indiana
47404

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

Click here to access Satellite view

Topographic Map



Target Property (TP)

Quadrangle(s): Bloomington
Source: USGS, 05/20/2013
Commercial Property
216 S College Ave
Bloomington, Indiana
47404

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Click here to access Satellite view

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	BF	4121015	Higher (756 ft.)	0.039 mi. N (206 ft.)	FREIGHT DEPOT	217 W KIRKWOOD AVE, BLOOMINGTON, IN 47404	23
1	SCP	200204230	Higher (756 ft.)	0.021 mi. N (111 ft.)	WOUNDERLAB MUSEUM	300 W. 4TH ST., BLOOMINGTON, IN 47404	24
2	LUST	7480LUST	Lower (747 ft.)	0.023 mi. S (121 ft.)	TOM O'DANIEL INC	302 S COLLEGE, BLOOMINGTON, IN 47401	25
2	RCRANGR05	IND016210627	Lower (747 ft.)	0.023 mi. S (121 ft.)	ODANIEL TOM FORD	302 S COLLEGE AVE, BLOOMINGTON, IN 47401	26
2	RCRANGR05	IND984867978	Lower (747 ft.)	0.023 mi. S (121 ft.)	BLOOMINGTON FORD	302 S COLLEGE AVE, BLOOMINGTON, IN 47401	28
2	RUST	7480	Lower (747 ft.)	0.023 mi. S (121 ft.)	TOM O'DANIEL INC	302 S COLLEGE, BLOOMINGTON, IN 47401	30
3	BF	4980072	Equal (751 ft.)	0.025 mi. E (132 ft.)	JOSEPHINE BROWN TRUST PROPERTY	211 & 213 S COLLEGE AVE, BLOOMINGTON, IN 47408	31
3	RCRANGR05	IND075957175	Equal (751 ft.)	0.025 mi. E (132 ft.)	JERRYS DIAGNOSTIC CTR INC	211 S COLLEGE, BLOOMINGTON, IN 47401	32
4	RCRANGR05	INR000106831	Higher (756 ft.)	0.032 mi. WNW (169 ft.)	WONDERLAB MUSEUM	308 W FOURTH ST, BLOOMINGTON, IN 47404	34
5	BF	4060002	Equal (751 ft.)	0.033 mi. SE (174 ft.)	BLOOMINGTON TIRE CO	301 S COLLEGE, BLOOMINGTON, IN 47401	36
5	RCRANGR05	IND984877506	Equal (751 ft.)	0.033 mi. SE (174 ft.)	BLOOMINGTON TIRE CO	301 S COLLEGE, BLOOMINGTON, IN 47401	37
5	RUST	8705	Equal (751 ft.)	0.033 mi. SE (174 ft.)	BLOOMINGTON TIRE CO INC	301 S COLLEGE AVE, BLOOMINGTON, IN 47401	38
6	RCRAGR05	IN0000962944	Higher (756 ft.)	0.056 mi. W (296 ft.)	IGC BLOOMINGTON SVC CTR	205 S MADISON ST, BLOOMINGTON, IN 47402	39
6	RUST	4026	Higher (756 ft.)	0.056 mi. W (296 ft.)	INDIANA GAS COMPANY INC	205 S MADISON ST, BLOOMINGTON, IN 47401	41
6	VCP	6000410VCP	Higher (756 ft.)	0.056 mi. W (296 ft.)	INDIANA GAS COMPANY INC	205 S MADISON ST, BLOOMINGTON, IN	42
7	BF	4080102	Equal (751 ft.)	0.093 mi. E (491 ft.)	ROYAL DOG (BLOOMINGTON TRANSIT CENTER)	300 BLK WALNUT ST, BLOOMINGTON, IN 47401	43
7	ININDWASTE	IND016210361	Equal (751 ft.)	0.083 mi. E (438 ft.)	MODERN CLEANERS	112 E 3RD ST, BLOOMINGTON, IN 47408	44
7	LUST	106LUST	Equal (751 ft.)	0.093 mi. E (491 ft.)	SHELL DEALER BLOOMINGTON S WALNUT ST	301 S WALNUT ST, BLOOMINGTON, IN 47401	45
7	LUST	1844LUST	Equal (751 ft.)	0.086 mi. E (454 ft.)	FIRESTONE STORE 29GW/006793	3RD & WALNUT, BLOOMINGTON, IN 47403	47
7	RCRAGR05	INR000020842	Equal (751 ft.)	0.093 mi. E (491 ft.)	EQUILON ENTERPRISES LLC	301 S WALNUT, BLOOMINGTON, IN 47401	48
7	RUST	106	Equal (751 ft.)	0.093 mi. E (491 ft.)	SHELL DEALER BLOOMINGTON S WALNUT ST	301 S WALNUT ST, BLOOMINGTON, IN 47401	50
7	RUST	1844	Equal (751 ft.)	0.073 mi. E (385 ft.)	FIRESTONE STORE 29GW/006793	3RD & WALNUT, BLOOMINGTON, IN 47403	51
8	BF	4110803	Equal (751 ft.)	0.11 mi. E (581 ft.)	FLEENER BUILDING	112 E 3RD ST, BLOOMINGTON, IN 47401	52
8	RCRANGR05	IND016210361	Equal (751 ft.)	0.11 mi. E (581 ft.)	MODERN CLEANERS	112 E 3RD ST, BLOOMINGTON, IN 47401	53

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
9	***RCRANGR05***	***IND072063415***	***Equal (751 ft.)***	***0.093 mi. E (491 ft.)***	***SHERWIN WILLIAMS CO THE***	***205 S WALNUT ST, BLOOMINGTON, IN 47401***	***55***
9	SCP	201229097	Equal (751 ft.)	0.089 mi. E (470 ft.)	BRIDGESTONE RETAIL OPERATIONS LLC	219 S. WALNUT ST.,, BLOOMINGTON, IN 47401	57
10	***LUST***	***20252LUST***	***Equal (751 ft.)***	***0.103 mi. ESE (544 ft.)***	***NORDBERGS PROPERTY***	***329 S WALNUT, BLOOMINGTON, IN 47401***	***58***
10	SCP	200902278	Equal (751 ft.)	0.114 mi. E (602 ft.)	FLEENER BUILDING PROPERTY	112 E 3RD ST, BLOOMINGTON, IN 47404	59
11	***RCRAGR05***	***INR000146183***	***Higher (756 ft.)***	***0.097 mi. NNW (512 ft.)***	***THE FOUNDRY AT 304 LLC***	***304 W KIRKWOOD, BLOOMINGTON, IN 47401***	***60***
11	SCP	0000558	Higher (756 ft.)	0.097 mi. NNW (512 ft.)	THE FOUNDRY	304 WEST KIRKWOOD, BLOOMINGTON, IN 47404	62
11	***VCP***	***6970604VCP***	***Higher (756 ft.)***	***0.097 mi. NNW (512 ft.)***	***BANK ONE INDIANA***	***304 W. KIRKWOOD, BLOOMINGTON, IN***	***63***
12	SCP	201445231	Equal (751 ft.)	0.127 mi. E (671 ft.)	DAEWOONG LLC	116 E 3RD ST, BLOOMINGTON, IN 47408	64
13	***BF***	***4080405***	***Lower (743 ft.)***	***0.115 mi. SSE (607 ft.)***	***BIG O PROPERTIES***	***340 S WALNUT ST, BLOOMINGTON, IN 47401***	***65***
14	***LUST***	***18574LUST***	***Higher (763 ft.)***	***0.124 mi. N (655 ft.)***	***HHI YELLOW CAB LLC***	***219 W 6TH ST, BLOOMINGTON, IN 47401***	***66***
14	***RCRANGR05***	***IN0000085514***	***Higher (763 ft.)***	***0.124 mi. N (655 ft.)***	***MC CO INC***	***219 W SIXTH ST, BLOOMINGTON, IN 47404***	***67***
14	***RUST***	***18574***	***Higher (763 ft.)***	***0.124 mi. N (655 ft.)***	***HHI YELLOW CAB LLC***	***219 W 6TH ST, BLOOMINGTON, IN 47401***	***69***
15	***BF***	***4141102***	***Higher (780 ft.)***	***0.149 mi. ENE (787 ft.)***	***OLD NATIONAL BANK BUSINESS CENTER***	***121 E KIRKWOOD, BLOOMINGTON, IN 47403***	***70***
16	***LUST***	***18967LUST***	***Lower (739 ft.)***	***0.157 mi. SE (829 ft.)***	***NORDBERG RENT-ALL***	***340 S WASHINGTON ST, BLOOMINGTON, IN 47401***	***71***
16	***RUST***	***18967***	***Lower (739 ft.)***	***0.157 mi. SE (829 ft.)***	***NORDBERG RENT-ALL***	***340 S WASHINGTON ST, BLOOMINGTON, IN 47401***	***72***
17	ININDWASTE	IND985048537	Higher (769 ft.)	0.165 mi. WNW (871 ft.)	MOTOR SVC INCORPORATED	106 N ROGERS ST, BLOOMINGTON, IN 47404	73
18	***LUST***	***15924LUST***	***Higher (769 ft.)***	***0.169 mi. WNW (892 ft.)***	***CIRCLE K 39***	***503 W KIRKWOOD AVE, BLOOMINGTON, IN 47403***	***74***
18	***RUST***	***15924***	***Higher (769 ft.)***	***0.169 mi. WNW (892 ft.)***	***CIRCLE K 39***	***503 W KIRKWOOD AVE, BLOOMINGTON, IN 47403***	***76***
19	SCP	200105234	Lower (737 ft.)	0.185 mi. SSE (977 ft.)	MARATHON BLOOMINGTON	442 S. WALNUT STREET, BLOOMINGTON, IN 47401	78
20	ALTFUELS	94817	Higher (763 ft.)	0.193 mi. N (1019 ft.)	PARKING GARAGE	245 W 7TH ST, BLOOMINGTON, IN 47404	79

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
21	***BF***	***4040001***	***Higher (780 ft.)***	***0.198 mi. NE (1045 ft.)***	***ONE CALL COMMUNICATIONS PROPERTY***	***115 E 6TH ST, BLOOMINGTON, IN 47401***	***80***
22	OISC	3186486229	Higher (786 ft.)	0.199 mi. N (1051 ft.)	MONROE COUNTY HEALTH DEPT	119 W 7TH ST, BLOOMINGTON, IN 47404	81
23	SCP	000000368	Higher (773 ft.)	0.215 mi. NNW (1135 ft.)	FORMER SELECT CLEANERS	401 W. 7TH ST., BLOOMINGTON, IN 47404	82
23	SCP	201333859	Higher (773 ft.)	0.228 mi. NW (1204 ft.)	BATTERY EXPRESS	415 W. 7TH ST., BLOOMINGTON, IN 47404	83
24	***LUST***	***19750LUST***	***Lower (746 ft.)***	***0.215 mi. E (1135 ft.)***	***BARBARA LEONARD LUNDY***	***300 E 3RD, BLOOMINGTON, IN 47401***	***84***
24	SCP	201334094	Lower (746 ft.)	0.235 mi. E (1241 ft.)	LEONARDS HOME DRYCLEANER	300 E. 3RD ST., BLOOMINGTON, IN 47401	85
25	***LUST***	***17987LUST***	***Lower (746 ft.)***	***0.225 mi. E (1188 ft.)***	***CITY OF BLOOMINGTON***	***300 E 4TH ST, BLOOMINGTON, IN 47402***	***86***
25	***RUST***	***17987***	***Lower (746 ft.)***	***0.225 mi. E (1188 ft.)***	***CITY OF BLOOMINGTON***	***300 E 4TH ST, BLOOMINGTON, IN 47402***	***87***
26	***LUST***	***13845LUST***	***Higher (767 ft.)***	***0.228 mi. N (1204 ft.)***	***WESTPART-AN INDIANA PARTNERSHIP***	***314 W 7TH ST, BLOOMINGTON, IN 47401***	***88***
26	***RUST***	***13845***	***Higher (767 ft.)***	***0.228 mi. N (1204 ft.)***	***WESTPART-AN INDIANA PARTNERSHIP***	***314 W 7TH ST, BLOOMINGTON, IN 47401***	***89***
27	***BF***	***4141104***	***Higher (780 ft.)***	***0.252 mi. NE (1331 ft.)***	***PARKING LOT***	***210 E 7TH ST, BLOOMINGTON, IN 47403***	***90***
28	***LUST***	***17678LUST***	***Higher (780 ft.)***	***0.256 mi. NNE (1352 ft.)***	***N33171***	***301 N WASHINGTON ST, BLOOMINGTON, IN 47401***	***91***
29	***LUST***	***3608LUST***	***Lower (735 ft.)***	***0.263 mi. SSE (1389 ft.)***	***DOWNTOWN 66 #20***	***501 S WALNUT, BLOOMINGTON, IN 47401***	***92***
30	***LUST***	***12204LUST***	***Higher (757 ft.)***	***0.27 mi. SW (1426 ft.)***	***VACANT CLARK OIL SERVICE STATION***	***506 W 2ND ST, BLOOMINGTON, IN 47401***	***93***
30	***LUST***	***20498LUST***	***Higher (757 ft.)***	***0.272 mi. SW (1436 ft.)***	***CLARK STATION***	***2ND & ROGERS ST, BLOOMINGTON, IN 47404***	***95***
31	***RCRAC***	***IND000714527***	***Higher (779 ft.)***	***0.31 mi. N (1637 ft.)***	***ST SEMICONDUCTERS OF INDIANA***	***415 N COLLEGE AVE, BLOOMINGTON, IN 47401***	***96***
31	***RCRASUBC***	***IND000714527***	***Higher (779 ft.)***	***0.31 mi. N (1637 ft.)***	***ST SEMICONDUCTERS OF INDIANA***	***415 N COLLEGE AVE, BLOOMINGTON, IN 47401***	***99***
31	***RCRAT***	***IND000714527***	***Higher (779 ft.)***	***0.31 mi. N (1637 ft.)***	***ST SEMICONDUCTERS OF INDIANA***	***415 N COLLEGE AVE, BLOOMINGTON, IN 47401***	***102***
31	SCP	200303041	Higher (779 ft.)	0.31 mi. N (1637 ft.)	SMALLWOOD PLAZA LLC	415 N COLLEGE, BLOOMINGTON, IN 47404	105
31	***SEMSARCH***	***IND000714527***	***Higher (779 ft.)***	***0.31 mi. N (1637 ft.)***	***ST. SEMICONDUCTERS OF INDIANA***	***415 N. COLLEGE AVE, BLOOMINGTON, IN 47401***	***106***
32	***BF***	***4130404***	***Higher (771 ft.)***	***0.33 mi. WSW (1742 ft.)***	***BLOOMINGFOODS ELM HEIGHTS***	***614 W 2ND ST, BLOOMINGTON, IN 47401***	***107***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
33	SCP	199509168	Higher (807 ft.)	0.355 mi. NNE (1874 ft.)	BANK ONE	501 N. WALNUT, BLOOMINGTON, IN 99999	108
34	***LUST***	***13106LUST***	***Higher (781 ft.)***	***0.362 mi. SW (1911 ft.)***	***BLOOMINGTON HOSPITAL***	***601 W 2ND ST, BLOOMINGTON, IN 47402***	***109***
35	***BF***	***4121209***	***Lower (736 ft.)***	***0.373 mi. S (1969 ft.)***	***MONROE OIL CO***	***229 W 1ST ST, BLOOMINGTON, IN 47402***	***111***
36	***LUST***	***16741LUST***	***Higher (808 ft.)***	***0.384 mi. NNW (2028 ft.)***	***BEASLEY PRODUCE CO INC***	***501 NORTH ROGERS ST, BLOOMINGTON, IN 47401***	***112***
37	SCP	200002039	Lower (748 ft.)	0.384 mi. E (2028 ft.)	PEOPLES PARK	501 EAST KIRKWOOD, BLOOMINGTON, IN 47402	114
38	***BF***	***4020024***	***Lower (736 ft.)***	***0.392 mi. S (2070 ft.)***	***OLD SIRA OFFICE BUILDING***	***660 S COLLEGE AVE, BLOOMINGTON, IN 47402***	***115***
39	SCP	200306062	Lower (736 ft.)	0.394 mi. S (2080 ft.)	MONROE OIL COMPANY	229 W 1ST STREET, BLOOMINGTON, IN 47402	116
40	SCP	0000670	Lower (729 ft.)	0.399 mi. S (2107 ft.)	MCGLOTHLIN	600 S. WALNUT ST., BLOOMINGTON, IN 47401	117
41	***BF***	***171986***	***Higher (783 ft.)***	***0.404 mi. NNW (2133 ft.)***	***VACANT LOT***	***N. ROGERS STREET, BLOOMINGTON, IN 47404***	***118***
41	SCP	200206110	Higher (783 ft.)	0.411 mi. NNW (2170 ft.)	CINERGY BLOOMINGTON	517 - 519 W 10TH ST, BLOOMINGTON, IN 47408	121
42	***BF***	***171984***	***Higher (792 ft.)***	***0.412 mi. N (2175 ft.)***	***MORTON PARKING LOT***	***555 N. MORTON STREET, BLOOMINGTON, IN 47404***	***122***
43	SCP	201443816	Higher (798 ft.)	0.414 mi. N (2186 ft.)	THE FARMER HOUSE MUSEUM PROPERTY	531 NORTH COLLEGE AVENUE, BLOOMINGTON, IN 47404	124
44	***LUST***	***4103LUST***	***Higher (756 ft.)***	***0.415 mi. ENE (2191 ft.)***	***INDIANA UNIVERSITY POPLARS BUILDING***	***DUNN ST & 7TH ST, BLOOMINGTON, IN 47408***	***125***
45	***LUST***	***1028LUST***	***Higher (783 ft.)***	***0.416 mi. E (2196 ft.)***	***CIRCLE K 0033***	***527 E 3RD ST, BLOOMINGTON, IN 47401***	***126***
46	***BF***	***4180903***	***Higher (792 ft.)***	***0.428 mi. N (2260 ft.)***	***SHOWERS ADMINISTRATION BUILDING***	***601 N MORTON ST, BLOOMINGTON, IN 47406***	***129***
46	***RCRAC***	***IND000815423***	***Higher (792 ft.)***	***0.428 mi. N (2260 ft.)***	***INDIANA UNIVERSITY SHOWERS WAREHOUSE***	***601 N MORTON, BLOOMINGTON, IN 47404***	***130***
46	***RCRAT***	***IND000815423***	***Higher (792 ft.)***	***0.428 mi. N (2260 ft.)***	***INDIANA UNIVERSITY SHOWERS WAREHOUSE***	***601 N MORTON, BLOOMINGTON, IN 47404***	***136***
47	***LUST***	***92LUST***	***Higher (819 ft.)***	***0.451 mi. NNE (2381 ft.)***	***SHELL DEALER BLOOMINGTON N WALNUT ST***	***602 N WALNUT ST, BLOOMINGTON, IN 47401***	***142***
48	SCP	200203196	Higher (762 ft.)	0.455 mi. E (2402 ft.)	INDIANA UNIVERSITY MUSICAL ARTS CENTER	107 S INDIANA AVE, BLOOMINGTON, IN 46405	144
49	***LUST***	***22095LUST***	***Lower (729 ft.)***	***0.464 mi. S (2450 ft.)***	***THE WAREHOUSE FORMER GREASE PIT***	***735 S COLLEGE AVE, BLOOMINGTON, IN 47403***	***145***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
50	SEMSARCH	IND016208795	Higher (798 ft.)	0.476 mi. NNW (2513 ft.)	FELL IRON & METAL INC	503 ROGERS STREET, BLOOMINGTON, IN 47401	146
51	BF	171345	Higher (804 ft.)	0.49 mi. NNW (2587 ft.)	FORMER IU FOOD STORAGE BUILDING	600 NORTH ROGERS STREET, BLOOMINGTON, IN 47404	147
52	LUST	18530LUST	Lower (727 ft.)	0.497 mi. S (2624 ft.)	FLOWER BOWL	756 S WALNUT ST, BLOOMINGTON, IN 47401	149
53	SF	7500018B	Higher (820 ft.)	0.947 mi. W (5000 ft.)	ILLINOIS CENTRAL SPRING WATER TREATMENT FACILITY	BLOOMINGTON, IN 47404	150

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 751 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	BF	756 ft.	FREIGHT DEPOT	217 W KIRKWOOD AVE, BLOOMINGTON, IN 47404	23
1	SCP	756 ft.	WOUNDERLAB MUSEUM	300 W. 4TH ST., BLOOMINGTON, IN 47404	24
3	BF	751 ft.	JOSEPHINE BROWN TRUST PROPERTY	211 & 213 S COLLEGE AVE, BLOOMINGTON, IN 47408	31
3	RCRANGR05	751 ft.	JERRYS DIAGNOSTIC CTR INC	211 S COLLEGE, BLOOMINGTON, IN 47401	32
4	RCRANGR05	756 ft.	WONDERLAB MUSEUM	308 W FOURTH ST, BLOOMINGTON, IN 47404	34
5	BF	751 ft.	BLOOMINGTON TIRE CO	301 S COLLEGE, BLOOMINGTON, IN 47401	36
5	RCRANGR05	751 ft.	BLOOMINGTON TIRE CO	301 S COLLEGE, BLOOMINGTON, IN 47401	37
5	RUST	751 ft.	BLOOMINGTON TIRE CO INC	301 S COLLEGE AVE, BLOOMINGTON, IN 47401	38
6	RCRAGR05	756 ft.	IGC BLOOMINGTON SVC CTR	205 S MADISON ST, BLOOMINGTON, IN 47402	39
6	RUST	756 ft.	INDIANA GAS COMPANY INC	205 S MADISON ST, BLOOMINGTON, IN 47401	41
6	VCP	756 ft.	INDIANA GAS COMPANY INC	205 S MADISON ST, BLOOMINGTON, IN	42
7	BF	751 ft.	ROYAL DOG (BLOOMINGTON TRANSIT CENTER)	300 BLK WALNUT ST, BLOOMINGTON, IN 47401	43
7	ININDWASTE	751 ft.	MODERN CLEANERS	112 E 3RD ST, BLOOMINGTON, IN 47408	44
7	LUST	751 ft.	SHELL DEALER BLOOMINGTON S WALNUT ST	301 S WALNUT ST, BLOOMINGTON, IN 47401	45
7	LUST	751 ft.	FIRESTONE STORE 29GW/006793	3RD & WALNUT, BLOOMINGTON, IN 47403	47
7	RCRAGR05	751 ft.	EQUILON ENTERPRISES LLC	301 S WALNUT, BLOOMINGTON, IN 47401	48
7	RUST	751 ft.	SHELL DEALER BLOOMINGTON S WALNUT ST	301 S WALNUT ST, BLOOMINGTON, IN 47401	50
7	RUST	751 ft.	FIRESTONE STORE 29GW/006793	3RD & WALNUT, BLOOMINGTON, IN 47403	51
8	BF	751 ft.	FLEENER BUILDING	112 E 3RD ST, BLOOMINGTON, IN 47401	52
8	RCRANGR05	751 ft.	MODERN CLEANERS	112 E 3RD ST, BLOOMINGTON, IN 47401	53
9	RCRANGR05	751 ft.	SHERWIN WILLIAMS CO THE	205 S WALNUT ST, BLOOMINGTON, IN 47401	55
9	SCP	751 ft.	BRIDGESTONE RETAIL OPERATIONS LLC	219 S. WALNUT ST.,, BLOOMINGTON, IN 47401	57
10	LUST	751 ft.	NORDBERGS PROPERTY	329 S WALNUT, BLOOMINGTON, IN 47401	58
10	SCP	751 ft.	FLEENER BUILDING PROPERTY	112 E 3RD ST, BLOOMINGTON, IN 47404	59

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
11	RCRAGR05	756 ft.	THE FOUNDRY AT 304 LLC	304 W KIRKWOOD, BLOOMINGTON, IN 47401	60
11	SCP	756 ft.	THE FOUNDRY	304 WEST KIRKWOOD, BLOOMINGTON, IN 47404	62
11	VCP	756 ft.	BANK ONE INDIANA	304 W. KIRKWOOD, BLOOMINGTON, IN	63
12	SCP	751 ft.	DAEWOONG LLC	116 E 3RD ST, BLOOMINGTON, IN 47408	64
14	LUST	763 ft.	HHI YELLOW CAB LLC	219 W 6TH ST, BLOOMINGTON, IN 47401	66
14	RCRANGR05	763 ft.	MC CO INC	219 W SIXTH ST, BLOOMINGTON, IN 47404	67
14	RUST	763 ft.	HHI YELLOW CAB LLC	219 W 6TH ST, BLOOMINGTON, IN 47401	69
15	BF	780 ft.	OLD NATIONAL BANK BUSINESS CENTER	121 E KIRKWOOD, BLOOMINGTON, IN 47403	70
17	ININDWASTE	769 ft.	MOTOR SVC INCORPORATED	106 N ROGERS ST, BLOOMINGTON, IN 47404	73
18	LUST	769 ft.	CIRCLE K 39	503 W KIRKWOOD AVE, BLOOMINGTON, IN 47403	74
18	RUST	769 ft.	CIRCLE K 39	503 W KIRKWOOD AVE, BLOOMINGTON, IN 47403	76
20	ALTFUELS	763 ft.	PARKING GARAGE	245 W 7TH ST, BLOOMINGTON, IN 47404	79
21	BF	780 ft.	ONE CALL COMMUNICATIONS PROPERTY	115 E 6TH ST, BLOOMINGTON, IN 47401	80
22	OISC	786 ft.	MONROE COUNTY HEALTH DEPT	119 W 7TH ST, BLOOMINGTON, IN 47404	81
23	SCP	773 ft.	FORMER SELECT CLEANERS	401 W. 7TH ST., BLOOMINGTON, IN 47404	82
23	SCP	773 ft.	BATTERY EXPRESS	415 W. 7TH ST., BLOOMINGTON, IN 47404	83
26	LUST	767 ft.	WESTPART-AN INDIANA PARTNERSHIP	314 W 7TH ST, BLOOMINGTON, IN 47401	88
26	RUST	767 ft.	WESTPART-AN INDIANA PARTNERSHIP	314 W 7TH ST, BLOOMINGTON, IN 47401	89
27	BF	780 ft.	PARKING LOT	210 E 7TH ST, BLOOMINGTON, IN 47403	90
28	LUST	780 ft.	N33171	301 N WASHINGTON ST, BLOOMINGTON, IN 47401	91
30	LUST	757 ft.	VACANT CLARK OIL SERVICE STATION	506 W 2ND ST, BLOOMINGTON, IN 47401	93
30	LUST	757 ft.	CLARK STATION	2ND & ROGERS ST, BLOOMINGTON, IN 47404	95
31	RCRAC	779 ft.	ST SEMICONDUCTERS OF INDIANA	415 N COLLEGE AVE, BLOOMINGTON, IN 47401	96
31	RCRASUBC	779 ft.	ST SEMICONDUCTERS OF INDIANA	415 N COLLEGE AVE, BLOOMINGTON, IN 47401	99
31	RCRAT	779 ft.	ST SEMICONDUCTERS OF INDIANA	415 N COLLEGE AVE, BLOOMINGTON, IN 47401	102
31	SCP	779 ft.	SMALLWOOD PLAZA LLC	415 N COLLEGE, BLOOMINGTON, IN 47404	105
31	SEMSARCH	779 ft.	ST. SEMICONDUCTERS OF INDIANA	415 N. COLLEGE AVE, BLOOMINGTON, IN 47401	106

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
32	BF	771 ft.	BLOOMINGFOODS ELM HEIGHTS	614 W 2ND ST, BLOOMINGTON, IN 47401	107
33	SCP	807 ft.	BANK ONE	501 N. WALNUT, BLOOMINGTON, IN 99999	108
34	LUST	781 ft.	BLOOMINGTON HOSPITAL	601 W 2ND ST, BLOOMINGTON, IN 47402	109
36	LUST	808 ft.	BEASLEY PRODUCE CO INC	501 NORTH ROGERS ST, BLOOMINGTON, IN 47401	112
41	BF	783 ft.	VACANT LOT	N. ROGERS STREET, BLOOMINGTON, IN 47404	118
41	SCP	783 ft.	CINERGY BLOOMINGTON	517 - 519 W 10TH ST, BLOOMINGTON, IN 47408	121
42	BF	792 ft.	MORTON PARKING LOT	555 N. MORTON STREET, BLOOMINGTON, IN 47404	122
43	SCP	798 ft.	THE FARMER HOUSE MUSEUM PROPERTY	531 NORTH COLLEGE AVENUE, BLOOMINGTON, IN 47404	124
44	LUST	756 ft.	INDIANA UNIVERSITY POPLARS BUILDING	DUNN ST & 7TH ST, BLOOMINGTON, IN 47408	125
45	LUST	783 ft.	CIRCLE K 0033	527 E 3RD ST, BLOOMINGTON, IN 47401	126
46	BF	792 ft.	SHOWERS ADMINISTRATION BUILDING	601 N MORTON ST, BLOOMINGTON, IN 47406	129
46	RCRAC	792 ft.	INDIANA UNIVERSITY SHOWERS WAREHOUSE	601 N MORTON, BLOOMINGTON, IN 47404	130
46	RCRAT	792 ft.	INDIANA UNIVERSITY SHOWERS WAREHOUSE	601 N MORTON, BLOOMINGTON, IN 47404	136
47	LUST	819 ft.	SHELL DEALER BLOOMINGTON N WALNUT ST	602 N WALNUT ST, BLOOMINGTON, IN 47401	142
48	SCP	762 ft.	INDIANA UNIVERSITY MUSICAL ARTS CENTER	107 S INDIANA AVE, BLOOMINGTON, IN 46405	144
50	SEMSARCH	798 ft.	FELL IRON & METAL INC	503 ROGERS STREET, BLOOMINGTON, IN 47401	146
51	BF	804 ft.	FORMER IU FOOD STORAGE BUILDING	600 NORTH ROGERS STREET, BLOOMINGTON, IN 47404	147
53	SF	820 ft.	ILLINOIS CENTRAL SPRING WATER TREATMENT FACILITY	BLOOMINGTON, IN 47404	150

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
2	LUST	747 ft.	TOM O'DANIEL INC	302 S COLLEGE, BLOOMINGTON, IN 47401	25
2	RCRANGR05	747 ft.	ODANIEL TOM FORD	302 S COLLEGE AVE, BLOOMINGTON, IN 47401	26
2	RCRANGR05	747 ft.	BLOOMINGTON FORD	302 S COLLEGE AVE, BLOOMINGTON, IN 47401	28
2	RUST	747 ft.	TOM O'DANIEL INC	302 S COLLEGE, BLOOMINGTON, IN 47401	30
13	BF	743 ft.	BIG O PROPERTIES	340 S WALNUT ST, BLOOMINGTON, IN 47401	65
16	LUST	739 ft.	NORDBERG RENT-ALL	340 S WASHINGTON ST, BLOOMINGTON, IN 47401	71

Elevation Summary

Map ID#	Database Name	Elevation	Site Name	Address	Page #
16	***RUST***	***739 ft.***	***NORDBERG RENT-ALL***	***340 S WASHINGTON ST, BLOOMINGTON, IN 47401***	***72***
19	SCP	737 ft.	MARATHON BLOOMINGTON	442 S. WALNUT STREET, BLOOMINGTON, IN 47401	78
24	***LUST***	***746 ft.***	***BARBARA LEONARD LUNDY***	***300 E 3RD, BLOOMINGTON, IN 47401***	***84***
24	SCP	746 ft.	LEONARDS HOME DRYCLEANER	300 E. 3RD ST., BLOOMINGTON, IN 47401	85
25	***LUST***	***746 ft.***	***CITY OF BLOOMINGTON***	***300 E 4TH ST, BLOOMINGTON, IN 47402***	***86***
25	***RUST***	***746 ft.***	***CITY OF BLOOMINGTON***	***300 E 4TH ST, BLOOMINGTON, IN 47402***	***87***
29	***LUST***	***735 ft.***	***DOWNTOWN 66 #20***	***501 S WALNUT, BLOOMINGTON, IN 47401***	***92***
35	***BF***	***736 ft.***	***MONROE OIL CO***	***229 W 1ST ST, BLOOMINGTON, IN 47402***	***111***
37	SCP	748 ft.	PEOPLES PARK	501 EAST KIRKWOOD, BLOOMINGTON, IN 47402	114
38	***BF***	***736 ft.***	***OLD SIRA OFFICE BUILDING***	***660 S COLLEGE AVE, BLOOMINGTON, IN 47402***	***115***
39	SCP	736 ft.	MONROE OIL COMPANY	229 W 1ST STREET, BLOOMINGTON, IN 47402	116
40	SCP	729 ft.	MCGLOTHLIN	600 S. WALNUT ST., BLOOMINGTON, IN 47401	117
49	***LUST***	***729 ft.***	***THE WAREHOUSE FORMER GREASE PIT***	***735 S COLLEGE AVE, BLOOMINGTON, IN 47403***	***145***
52	***LUST***	***727 ft.***	***FLOWER BOWL***	***756 S WALNUT ST, BLOOMINGTON, IN 47401***	***149***

MAP ID# 1

Distance from Property: 0.039 mi. (206 ft.) N
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4121015**
REGULATORY ID: **4121015**
NAME: **FREIGHT DEPOT**
ADDRESS: **217 W KIRKWOOD AVE**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **4/9/013**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
COMFORT LETTER 1/23/2013
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO RESIDENTIAL AND AGRICULTURAL (METALS IN SOIL)

Back to Report Summary

MAP ID# 1

Distance from Property: 0.021 mi. (111 ft.) N
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200204230**
REGULATORY ID: **200204230**
NAME: **WOUNDERLAB MUSEUM**
ADDRESS: **300 W. 4TH ST.**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **HISTORIC LUST**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 2

Distance from Property: 0.023 mi. (121 ft.) S
Elevation: 747 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **7480LUST**
FACILITY ID: **7480**
NAME: **TOM O'DANIEL INC**
ADDRESS: **302 S COLLEGE**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199104550**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **NOT REPORTED**

UST DETAILS

FACILITY ID: **7480**
OWNER NAME: **TOM 0'DANIEL INC**
OWNER ADDRESS: **302 S COLLEGE**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **3/31/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 2

Distance from Property: 0.023 mi. (121 ft.) S
Elevation: 747 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: **IND016210627**
NAME: **ODANIEL TOM FORD**
ADDRESS: **302 S COLLEGE AVE**
BLOOMINGTON, IN 47401
CONTACT NAME: **JOHN HANSON**
CONTACT ADDRESS: **302 S COLLEGE AVE**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-339-9791**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/09/2004**
CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

OWNER TYPE: **PRIVATE**
OWNER NAME: **ODANIEL TOM**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000

D001 **IGNITABLE WASTE**

F003 **THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

F005 **THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 2

Distance from Property: 0.023 mi. (121 ft.) S
Elevation: 747 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: **IND984867978**
NAME: **BLOOMINGTON FORD**
ADDRESS: **302 S COLLEGE AVE**
BLOOMINGTON, IN 47401
CONTACT NAME: **GEORGE ROGERS**
CONTACT ADDRESS: **302 S COLLEGE AVE**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-339-9791**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **03/16/1989**

OWNER TYPE: **PRIVATE**
OWNER NAME: **MARTIN THOMAS C**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

F003 **THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

F005 **THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 2

Distance from Property: 0.023 mi. (121 ft.) S
Elevation: 747 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **7480**
FACILITY ID: **7480**
NAME: **TOM O'DANIEL INC**
ADDRESS: **302 S COLLEGE**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **TOM 0'DANIEL INC**
ADDRESS: **302 S COLLEGE**
BLOOMINGTON IN 47401

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **3/31/1991**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 3

Distance from Property: 0.025 mi. (132 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **4980072**
REGULATORY ID: **4980072**
NAME: **JOSEPHINE BROWN TRUST PROPERTY**
ADDRESS: **211 & 213 S COLLEGE AVE**
BLOOMINGTON, IN 47408
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **NR**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
SITE STATUS LETTER 10/1/1998
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NOT REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 3

Distance from Property: 0.025 mi. (132 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **IND075957175**
NAME: **JERRYS DIAGNOSTIC CTR INC**
ADDRESS: **211 S COLLEGE**
BLOOMINGTON, IN 47401
CONTACT NAME: **PHYLLIS KREBBS**
CONTACT ADDRESS: **211 S COLLEGE**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-339-5800**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/11/2004**

OWNER TYPE: **PRIVATE**
OWNER NAME: **KREBBS PHYLLIS AND JERRY**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**

F002 **THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

F004 **THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 4

Distance from Property: 0.032 mi. (169 ft.) WNW
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **INR000106831**
NAME: **WONDERLAB MUSEUM**
ADDRESS: **308 W FOURTH ST**
BLOOMINGTON, IN 47404
CONTACT NAME: **CATHY OLMER**
CONTACT ADDRESS: **116 W SIXTH ST**
BLOOMINGTON IN 47404
CONTACT PHONE: **812-337-1337**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **02/14/2003**

OWNER TYPE: **PRIVATE**
OWNER NAME: **WONDERLAB MUSEUM**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **WONDERLAB MUSEUM**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
CATHY OLMER	**EXEC DIR**	**02/14/2003**

INDUSTRY CLASSIFICATION (NAICS)
11111 - SOYBEAN FARMING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
09/25/2002 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D008 LEAD

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 5

Distance from Property: 0.033 mi. (174 ft.) SE
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **4060002**
REGULATORY ID: **4060002**
NAME: **BLOOMINGTON TIRE CO**
ADDRESS: **301 S COLLEGE**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **8/9/2006**
FINANCIAL ASSISTANCE:
REMEDIATION GRANT AWARDED 7/20/2007
REMEDIATION GRANT AWARDED 9/15/2006
OTHER ASSISTANCE:
COMFORT LETTER 5/30/2006
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO RESIDENTIAL, AGRICULTURE, WATER WELLS, EXCAVATION BELOW 18 INCHES. MAINTAIN COVER/VAPOR MITIGATION (METALS, TPH, PCBS IN SOIL AND METALS, VOCS, SVOCS IN GROUNDWATER)

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 5

Distance from Property: 0.033 mi. (174 ft.) SE
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **IND984877506**
NAME: **BLOOMINGTON TIRE CO**
ADDRESS: **301 S COLLEGE**
BLOOMINGTON, IN 47401
CONTACT NAME: **LARRY DAVIS**
CONTACT ADDRESS: **301 S COLLEGE**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-332-9255**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **04/15/2002**

OWNER TYPE: **PRIVATE**
OWNER NAME: **DAVIS LARRY**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
03/03/2011 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 IGNITABLE WASTE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT
NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 5

Distance from Property: 0.033 mi. (174 ft.) SE
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **8705**
FACILITY ID: **8705**
NAME: **BLOOMINGTON TIRE CO INC**
ADDRESS: **301 S COLLEGE AVE**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **BLOOMINGTON TIRE CO INC**
ADDRESS: **301 S COLLEGE AVE**
BLOOMINGTON IN 47401

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **250**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **8/1/1989**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR05)

MAP ID# 6

Distance from Property: 0.056 mi. (296 ft.) W
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IN0000962944**

NAME: **IGC BLOOMINGTON SVC CTR**

ADDRESS: **205 S MADISON ST**
BLOOMINGTON, IN 47402

CONTACT NAME: **LISA MESSINGER**

CONTACT ADDRESS: **PO BOX 209**
EVANSVILLE IN 47702

CONTACT PHONE: **812-491-4666**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **04/04/2018**

OWNER TYPE: **PRIVATE**

OWNER NAME: **INDIANA GAS COMPANY INCORPORATED**

OPERATOR TYPE: **PRIVATE**

OPERATOR NAME: **INDIANA GAS COMPANY INCORPORATED**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
ANGELA SCHELLER	**MANAGER UTILITY ENVIRONMENTAL COMPLIANCE**	**02/28/2018**
ANGILA RETHERFORD	**DIR OF ENVIRO AFFAIRS**	**02/08/2006**
ANGILA RETHERFORD	**DIR OF ENVIRO AFFAIRS**	**02/02/2005**
ANGILA RETHERFORD	**DIRECTOR OF ENVIRONMENTAL AFFAIRS**	**12/03/2003**

INDUSTRY CLASSIFICATION (NAICS)

22121 - NATURAL GAS DISTRIBUTION

221210 - NATURAL GAS DISTRIBUTION

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **08/24/2018**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

MIXED WASTE GENERATOR: **NO**

RECYCLER: **NO**

TRANSPORTER: **NO**

ONSITE BURNER EXEMPTION: **NO**

FURNACE EXEMPTION: **NO**

USED OIL REFINER: **NO**

USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

TRANSFER FACILITY: **NO**

USED OIL FUEL BURNER: **NO**

USED OIL PROCESSOR: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D002 **CORROSIVE WASTE**
D009 **MERCURY**
U002 **2-PROPANONE (I)**
U002 **ACETONE (I)**
U226 **ETHANE, 1,1,1-TRICHLORO-**
U226 **METHYL CHLOROFORM**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 6

Distance from Property: 0.056 mi. (296 ft.) W
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4026**
FACILITY ID: **4026**
NAME: **INDIANA GAS COMPANY INC**
ADDRESS: **205 S MADISON ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **INDIANA GAS COMPANY INC**
ADDRESS: **PO BOX 209 ONE VECTREN SQ**
EVANSVILLE IN 47702

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **2000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **1/31/1989**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 6

Distance from Property: 0.056 mi. (296 ft.) W
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **6000410VCP**
REGULATORY ID: **6000410**
NAME: **INDIANA GAS COMPANY INC**
ADDRESS: **205 S MADISON ST**
BLOOMINGTON, IN
COUNTY: **MONROE**
DATA COLLECTION: **NOT REPORTED**
PROJECT NAME: **INDIANA GAS - BLOOMINGTON MGP**
STATUS: **ACTIVE**

FACILITY DETAILS

CONTAMINANTS: **INORGANICS**
MEDIA: **SUBSURFACE SOIL**

CONTAMINANTS: **ORGANICS**
MEDIA: **SUBSURFACE SOIL**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.093 mi. (491 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **4080102**
REGULATORY ID: **4080102**
NAME: **ROYAL DOG (BLOOMINGTON TRANSIT CENTER)**
ADDRESS: **300 BLK WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **1/23/2009**
8/11/14 MODIFICATION
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
COMFORT LETTER 2/28/2008 **SITE STATUS LETTER 6/29/2012** **SITE STATUS LETTER 7/2/2014**
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
6 ERCS. NO RESIDENTIAL, AGRICULTURE, WATER WELLS. INSTALL VAPOR MITIGATION SYSTEM. (VOCS, TPH IN SOIL AND VOCS IN GROUNDWATER)

Back to Report Summary

MAP ID# 7

Distance from Property: 0.083 mi. (438 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **IND016210361**
REGULATORY: **IND016210361**
FACILITY NAME: **MODERN CLEANERS**
ADDRESS: **112 E 3RD ST**
BLOOMINGTON, IN 47408
COUNTY: **MONROE**

FACILITY DETAIL(S)

THE DATE THAT GPS DATA WAS COLLECTED: **NOT REPORTED**
IDEMs MANAGING PROGRAM NAME: **HAZARDOUS WASTE SITES**
REFERENCE (Describes what is being located at the site): **ACCESS POINT**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.093 mi. (491 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **106LUST**
FACILITY ID: **106**
NAME: **SHELL DEALER BLOOMINGTON S WALNUT ST**
ADDRESS: **301 S WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199903538**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **199903538**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **MTBE**

INCIDENT NUMBER: **199903538**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **GROUNDWATER**

UST DETAILS

FACILITY ID: **106**
OWNER NAME: **EQUILON ENTERPRISES**
OWNER ADDRESS: **11057 ALLISONVILLE RD**
FISHERS IN 46038-2698
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/72**
CLOSURE DATE: **2/24/99**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/72**
CLOSURE DATE: **2/24/99**

STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/72**
CLOSURE DATE: **2/24/99**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 7

Distance from Property: 0.086 mi. (454 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **1844LUST**
FACILITY ID: **1844**
NAME: **FIRESTONE STORE 29GW/006793**
ADDRESS: **3RD & WALNUT**
BLOOMINGTON, IN 47403
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **198812062**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **1844**
OWNER NAME: **PROVIDENT MUTUAL LIFE INSURANCE**
OWNER ADDRESS: **4601 MARKET ST**
PHILADELPHIA PA 19101
TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **12/15/88**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR05)

MAP ID# 7

Distance from Property: 0.093 mi. (491 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **INR000020842**
NAME: **EQUILON ENTERPRISES LLC**
ADDRESS: **301 S WALNUT**
BLOOMINGTON, IN 47401

OWNER TYPE: **PRIVATE**
OWNER NAME: **EQUILON ENTERPRISES LLC**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **EQUILON ENTERPRISES LLC**

CONTACT NAME: **NORA CORTEZ**
CONTACT ADDRESS: **SHELL OIL PRODUCTS US 12700 NORTHBOROUGH DR MFT240-G**
HOUSTON TX 77067-2508
CONTACT PHONE: **281-874-2224**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/20/2003**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
KYLE LANDRENEAU	**RMT SUPERVISOR**	**06/20/2003**

INDUSTRY CLASSIFICATION (NAICS)
11111 - SOYBEAN FARMING

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
11/29/2001 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D008 **LEAD**
D018 **BENZENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 7

Distance from Property: 0.093 mi. (491 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **106**
FACILITY ID: **106**
NAME: **SHELL DEALER BLOOMINGTON S WALNUT ST**
ADDRESS: **301 S WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **EQUILON ENTERPRISES**
ADDRESS: **11057 ALLISONVILLE RD**
FISHERS IN 46038-2698

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/1972**
CLOSURE DATE: **2/24/1999**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/1972**
CLOSURE DATE: **2/24/1999**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **7896**
INSTALL DATE: **1/1/1972**
CLOSURE DATE: **2/24/1999**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.073 mi. (385 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **1844**
FACILITY ID: **1844**
NAME: **FIRESTONE STORE 29GW/006793**
ADDRESS: **3RD & WALNUT**
BLOOMINGTON, IN 47403
COUNTY: **MONROE**
OWNER NAME: **PROVIDENT MUTUAL LIFE INSURANCE**
ADDRESS: **4601 MARKET ST**
PHILADELPHIA PA 19101

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **12/15/1988**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 8

Distance from Property: 0.11 mi. (581 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **4110803**
REGULATORY ID: **4110803**
NAME: **FLEENER BUILDING**
ADDRESS: **112 E 3RD ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **NR**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
COMFORT LETTER REQUEST 8/16/2011
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NOT REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 8

Distance from Property: 0.11 mi. (581 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **IND016210361**
NAME: **MODERN CLEANERS**
ADDRESS: **112 E 3RD ST**
BLOOMINGTON, IN 47401
CONTACT NAME: **REED RECORDS**
CONTACT ADDRESS: **112 E 3RD ST**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-332-2583**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **01/12/2004**

OWNER TYPE: **PRIVATE**
OWNER NAME: **EASTLAND CLEANERS INC**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
REED RECORDS	**PRESIDENT**	**12/15/2003**

INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS
02/22/2002 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000
D001 IGNITABLE WASTE

F002 **THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 9

Distance from Property: 0.093 mi. (491 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **IND072063415**
NAME: **SHERWIN WILLIAMS CO THE**
ADDRESS: **205 S WALNUT ST**
BLOOMINGTON, IN 47401
CONTACT NAME: **D ALEXANDER**
CONTACT ADDRESS: **205 S WALNUT ST**
BLOOMINGTON IN 47401
CONTACT PHONE: **216-566-3096**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **SHERWIN WILLIAMS CO**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000
D001 IGNITABLE WASTE
D002 CORROSIVE WASTE
D003 REACTIVE WASTE

F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F017	
F018	
P090	
U002	2-PROPANONE (I)
U002	ACETONE (I)
U031	1-BUTANOL (I)
U031	N-BUTYL ALCOHOL (I)
U112	ACETIC ACID, ETHYL ESTER (I)
U112	ETHYL ACETATE (I)
U150	L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]-
U150	MELPHALAN
U154	METHANOL (I)
U154	METHYL ALCOHOL (I)
U159	2-BUTANONE (I,T)
U159	METHYL ETHYL KETONE (MEK) (I,T)
U161	4-METHYL-2-PENTANONE (I)
U161	METHYL ISOBUTYL KETONE (I)
U161	PENTANOL, 4-METHYL-
U220	BENZENE, METHYL-
U220	TOLUENE
U239	BENZENE, DIMETHYL- (I,T)
U239	XYLENE (I)

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 9

Distance from Property: 0.089 mi. (470 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **201229097**
REGULATORY ID: **201229097**
NAME: **BRIDGESTONE RETAIL OPERATIONS LLC**
ADDRESS: **219 S. WALNUT ST.,**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **PETRO SOIL/GW**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 10

Distance from Property: 0.103 mi. (544 ft.) ESE
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **20252LUST**
FACILITY ID: **20252**
NAME: **NORDBERGS PROPERTY**
ADDRESS: **329 S WALNUT**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199109525**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **199109525**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **GROUNDWATER**

UST DETAILS

FACILITY ID:
OWNER NAME:
OWNER ADDRESS:

UST DETAILS NO UST DETAILS REPORTED

Back to Report Summary

MAP ID# 10

Distance from Property: 0.114 mi. (602 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **200902278**
REGULATORY ID: **200902278**
NAME: **FLEENER BUILDING PROPERTY**
ADDRESS: **112 E 3RD ST**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **SITE IS ACTIVE**
SITE DESCRIPTION: **L91RA - FORMER DRYCLEANER. 100044657 40204**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR05)

MAP ID# 11

Distance from Property: 0.097 mi. (512 ft.) NNW
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **INR000146183**
NAME: **THE FOUNDRY AT 304 LLC**
ADDRESS: **304 W KIRKWOOD**
BLOOMINGTON, IN 47401
CONTACT NAME: **BRYAN WHITE**
CONTACT ADDRESS: **555 N MORTON ST**
BLOOMINGTON IN 47404
CONTACT PHONE: **317-710-0774**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **10/12/2018**

OWNER TYPE: **PRIVATE**
OWNER NAME: **THE FOUNDRY AT 304 LLC**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **THE FOUNDRY AT 304 LLC**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
BRYAN WHITE	**OWNERS REPRESENTATIVE**	**10/12/2018**

INDUSTRY CLASSIFICATION (NAICS)
236117 - NEW HOUSING OPERATIVE BUILDERS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **10/30/2018**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D018 BENZENE
D040 TRICHLORETHYLENE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 11

Distance from Property: 0.097 mi. (512 ft.) NNW
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **0000558**
REGULATORY ID: **0000558**
NAME: **THE FOUNDRY**
ADDRESS: **304 WEST KIRKWOOD**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **PETRO**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 11

Distance from Property: 0.097 mi. (512 ft.) NNW
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **6970604VCP**
REGULATORY ID: **6970604**
NAME: **BANK ONE INDIANA**
ADDRESS: **304 W. KIRKWOOD**
BLOOMINGTON, IN
COUNTY: **MONROE**
DATA COLLECTION: **8/7/2000**
PROJECT NAME: **BANK ONE INDIANA**
STATUS: **INACTIVE**

FACILITY DETAILS

CONTAMINANTS: **PETROLEUM PRODUCTS**
MEDIA: **GROUNDWATER**

CONTAMINANTS: **PETROLEUM PRODUCTS**
MEDIA: **SUBSURFACE SOIL**

Back to Report Summary

MAP ID# 12

Distance from Property: 0.127 mi. (671 ft.) E
Elevation: 751 ft. (Equal to TP)

FACILITY INFORMATION

GEOSEARCH ID: **201445231**
REGULATORY ID: **201445231**
NAME: **DAEWOONG LLC**
ADDRESS: **116 E 3RD ST**
BLOOMINGTON, IN 47408
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **PETRO AT FORMER GAS STATION**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 13

Distance from Property: 0.115 mi. (607 ft.) SSE
Elevation: 743 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4080405**
REGULATORY ID: **4080405**
NAME: **BIG O PROPERTIES**
ADDRESS: **340 S WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **NR**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
REMEDIATION GRANT APPLICANT
OTHER ASSISTANCE:
NOT REPORTED
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NOT REPORTED

Back to Report Summary

MAP ID# 14

Distance from Property: 0.124 mi. (655 ft.) N
Elevation: 763 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **18574LUST**
FACILITY ID: **18574**
NAME: **HHI YELLOW CAB LLC**
ADDRESS: **219 W 6TH ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199612503**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **NOT REPORTED**

INCIDENT NUMBER: **201706502**
PRIORITY: **MEDIUM**
DESCRIPTION: **ACTIVE**
AFFECTED AREA: **NOT REPORTED**

UST DETAILS

FACILITY ID: **18574**
OWNER NAME: **HHI YELLOW CAB LLC**
OWNER ADDRESS: **215 217 WEST SIXTH STREET**
BLOOMINGTON IN 47404
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
INSTALL DATE: **1/1/83**
CLOSURE DATE: **2/21/97**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
INSTALL DATE: **2/1/97**
CLOSURE DATE: **1/31/18**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR05)

MAP ID# 14

Distance from Property: 0.124 mi. (655 ft.) N
Elevation: 763 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IN0000085514**
NAME: **MC CO INC**
ADDRESS: **219 W SIXTH ST**
BLOOMINGTON, IN 47404
CONTACT NAME: **J BRADLEY MCNEELY**
CONTACT ADDRESS: **219 W SIXTH ST**
BLOOMINGTON IN 47404
CONTACT PHONE: **812-332-9118**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **12/28/1994**

OWNER TYPE: **PRIVATE**
OWNER NAME: **MCNEELY JOHN**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000
D002 CORROSIVE WASTE
D004 ARSENIC
D005 BARIUM
D006 CADMIUM
D007 CHROMIUM
D008 LEAD
D009 MERCURY

D010 **SELENIUM**

D011 **SILVER**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT

NO CORRECTIVE ACTION EVENT(S) REPORTED

Back to Report Summary

MAP ID# 14

Distance from Property: 0.124 mi. (655 ft.) N
Elevation: 763 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **18574**
FACILITY ID: **18574**
NAME: **HHI YELLOW CAB LLC**
ADDRESS: **219 W 6TH ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **HHI YELLOW CAB LLC**
ADDRESS: **215 217 WEST SIXTH STREET**
BLOOMINGTON IN 47404

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
INSTALL DATE: **1/1/1983**
CLOSURE DATE: **2/21/1997**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
INSTALL DATE: **2/1/1997**
CLOSURE DATE: **1/31/2018**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 15

Distance from Property: 0.149 mi. (787 ft.) ENE
Elevation: 780 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4141102**
REGULATORY ID: **4141102**
NAME: **OLD NATIONAL BANK BUSINESS CENTER**
ADDRESS: **121 E KIRKWOOD**
BLOOMINGTON, IN 47403
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **NR**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
SITE STATUS LETTER 2/16/2015
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NOT REPORTED

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 16

Distance from Property: 0.157 mi. (829 ft.) SE
Elevation: 739 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **18967LUST**
FACILITY ID: **18967**
NAME: **NORDBERG RENT-ALL**
ADDRESS: **340 S WASHINGTON ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199406533**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **18967**
OWNER NAME: **DAVID R DUVALL INC**
OWNER ADDRESS: **5005 E SR 46**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **6/1/84**
CLOSURE DATE: **6/26/94**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 16

Distance from Property: 0.157 mi. (829 ft.) SE
Elevation: 739 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **18967**
FACILITY ID: **18967**
NAME: **NORDBERG RENT-ALL**
ADDRESS: **340 S WASHINGTON ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **DAVID R DUVALL INC**
ADDRESS: **5005 E SR 46**
BLOOMINGTON IN 47401

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **6/1/1984**
CLOSURE DATE: **6/26/1994**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 17

Distance from Property: 0.165 mi. (871 ft.) WNW
Elevation: 769 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **IND985048537**
REGULATORY: **IND985048537**
FACILITY NAME: **MOTOR SVC INCORPORATED**
ADDRESS: **106 N ROGERS ST**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**

FACILITY DETAIL(S)

THE DATE THAT GPS DATA WAS COLLECTED: **NOT REPORTED**
IDEMs MANAGING PROGRAM NAME: **HAZARDOUS WASTE SITES**
REFERENCE (Describes what is being located at the site): **ACCESS POINT**

Back to Report Summary

MAP ID# 18

Distance from Property: 0.169 mi. (892 ft.) WNW
Elevation: 769 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **15924LUST**
FACILITY ID: **15924**
NAME: **CIRCLE K 39**
ADDRESS: **503 W KIRKWOOD AVE**
BLOOMINGTON, IN 47403-1484
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **200502500**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **GROUNDWATER**

INCIDENT NUMBER: **199607133**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **200502500**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **15924**
OWNER NAME: **MACS CONVENIENCE STORES LLC**
OWNER ADDRESS: **P O BOX 347**
COLUMBUS IN 47202
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/88**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/88**
CLOSURE DATE: **NOT REPORTED**

STATUS: **CURRENTLY IN USE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/88**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **4**
SUBSTANCE: **KEROSENE**
CAPACITY: **2000**
INSTALL DATE: **1/1/88**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **5**
SUBSTANCE: **OTHER**
CAPACITY: **550**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **7/22/96**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **6**
SUBSTANCE: **USED OIL**
CAPACITY: **550**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **7/22/96**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 18

Distance from Property: 0.169 mi. (892 ft.) WNW
Elevation: 769 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **15924**
FACILITY ID: **15924**
NAME: **CIRCLE K 39**
ADDRESS: **503 W KIRKWOOD AVE**
BLOOMINGTON, IN 47403-1484
COUNTY: **MONROE**
OWNER NAME: **MACS CONVENIENCE STORES LLC**
ADDRESS: **P O BOX 347**
COLUMBUS IN 47202

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/1988**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/1988**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/1988**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **4**
SUBSTANCE: **KEROSENE**
CAPACITY: **2000**
INSTALL DATE: **1/1/1988**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **5**

SUBSTANCE: **OTHER**
CAPACITY: **550**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **7/22/1996**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **6**
SUBSTANCE: **USED OIL**
CAPACITY: **550**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **7/22/1996**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 19

Distance from Property: 0.185 mi. (977 ft.) SSE
Elevation: 737 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200105234**
REGULATORY ID: **200105234**
NAME: **MARATHON BLOOMINGTON**
ADDRESS: **442 S. WALNUT STREET**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **FORMER MARATHON STATION**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 20

Distance from Property: 0.193 mi. (1,019 ft.) N
Elevation: 763 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **94817**
UNIQUE IDENTIFIER FOR THIS SPECIFIC STATION: **94817**
STATION NAME: **PARKING GARAGE**
ADDRESS: **245 W 7TH ST**
BLOOMINGTON, IN 47404
INTERSECTION DIRECTIONS: **NOT REPORTED**
STATION PHONE: **866-816-7584**
STATION CURRENT STATUS: **OPEN: THE STATION IS OPEN.**
TYPE OF ALTERNATIVE FUEL THE STATION PROVIDES: **ELECTRIC**
OWNER TYPE: **PRIVATELY OWNED**
FEDERAL AGANCY ID: **NOT REPORTED**
FEDERAL AGENCY NAME: **NOT REPORTED**
DATE THAT THE STATION BEGAN OFFERING THE FUEL: **8/30/2017**
DATE THE STATION'S DETAILS WERE LAST CONFIRMED: **5/3/2018**
TIME THE STATION'S DETAILS WERE LAST UPDATED (ISO 8601 FORMAT).: **2019-01-17 00:33:46 UTC**

Back to Report Summary

MAP ID# 21

Distance from Property: 0.198 mi. (1,045 ft.) NE
Elevation: 780 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4040001**
REGULATORY ID: **4040001**
NAME: **ONE CALL COMMUNICATIONS PROPERTY**
ADDRESS: **115 E 6TH ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **4/29/2008**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
SITE STATUS LETTER 6/11/2004
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO WATER WELLS (VOCS, TPH IN SOIL AND GROUNDWATER)

Back to Report Summary

MAP ID# 22

Distance from Property: 0.199 mi. (1,051 ft.) N
Elevation: 786 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **3186486229**
FACILITY NAME: **MONROE COUNTY HEALTH DEPT**
ADDRESS: **119 W 7TH ST**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**

FACILITY DETAIL(S)

TYPE: **PESTICIDE APPLICATORS**
APPLICATOR NAME: **SIMEON PETER BAKER**
CATEGORY: **INDUSTRIAL INSTITUTIONAL STRUCTURAL AND HEALTH-RELATED PEST,COMMUNITY-WIDE MOSQUITO CONTROL**
MAILING ADDRESS: **119 W 7TH ST**
BLOOMINGTON, IN 47404
PHONE: **812-349-2542**
EMAIL: **NOT REPORTED**

TYPE: **PESTICIDE APPLICATORS**
APPLICATOR NAME: **SYDNEY MARIE STRADER EVANS**
CATEGORY: **INDUSTRIAL INSTITUTIONAL STRUCTURAL AND HEALTH-RELATED PEST,COMMUNITY-WIDE MOSQUITO CONTROL**
MAILING ADDRESS: **119 W 7TH ST**
BLOOMINGTON, IN 47404
PHONE: **812-349-2542**
EMAIL: **NOT REPORTED**

TYPE: **PESTICIDE APPLICATORS**
APPLICATOR NAME: **SYDNEY MARIE STRADER**
CATEGORY: **INDUSTRIAL INSTITUTIONAL STRUCTURAL AND HEALTH-RELATED PEST,COMMUNITY-WIDE MOSQUITO CONTROL**
MAILING ADDRESS: **119 W 7TH ST**
BLOOMINGTON, IN 47404
PHONE: **812-349-2542**
EMAIL: **NOT REPORTED**

Back to Report Summary

MAP ID# 23

Distance from Property: 0.215 mi. (1,135 ft.) NNW
Elevation: 773 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **000000368**
REGULATORY ID: **000000368**
NAME: **FORMER SELECT CLEANERS**
ADDRESS: **401 W. 7TH ST.**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **SITE IS ACTIVE**
SITE DESCRIPTION: **CZ0A8 - FORMER DRYCLEANER. NOTE: SEE SCU#201333859 107740**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 23

Distance from Property: 0.228 mi. (1,204 ft.) NW
Elevation: 773 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **201333859**
REGULATORY ID: **201333859**
NAME: **BATTERY EXPRESS**
ADDRESS: **415 W. 7TH ST.**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **SITE IS INACTIVE**
SITE DESCRIPTION: **VI IN BLDG NEXT TO FORMER DRY CLEANER, BLDG NEXT DOOR OWNED BY MONROE CO AKA FORMER JOHNSON HARDWARE BLDG. SITE IS RENAMED FORMER SELECT CLEANERS AND SITE #000000368**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 24

Distance from Property: 0.215 mi. (1,135 ft.) E
Elevation: 746 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **19750LUST**
FACILITY ID: **19750**
NAME: **BARBARA LEONARD LUNDY**
ADDRESS: **300 E 3RD**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199509504**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID:
OWNER NAME:
OWNER ADDRESS:

UST DETAILS NO UST DETAILS REPORTED

Back to Report Summary

MAP ID# 24

Distance from Property: 0.235 mi. (1,241 ft.) E
Elevation: 746 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **201334094**
REGULATORY ID: **201334094**
NAME: **LEONARDS HOME DRYCLEANER**
ADDRESS: **300 E. 3RD ST.**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
STATUS: **SITE IS ACTIVE**
SITE DESCRIPTION: **DZ35Q FORMER DRY CLEANER**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 25

Distance from Property: 0.225 mi. (1,188 ft.) E
Elevation: 746 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **17987LUST**
FACILITY ID: **17987**
NAME: **CITY OF BLOOMINGTON**
ADDRESS: **300 E 4TH ST**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199108519**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **17987**
OWNER NAME: **CITY OF BLOOMINGTON**
OWNER ADDRESS: **220 E 3RD ST PO BOX 100**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **NOT REPORTED**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 25

Distance from Property: 0.225 mi. (1,188 ft.) E
Elevation: 746 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **17987**
FACILITY ID: **17987**
NAME: **CITY OF BLOOMINGTON**
ADDRESS: **300 E 4TH ST**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**
OWNER NAME: **CITY OF BLOOMINGTON**
ADDRESS: **220 E 3RD ST PO BOX 100**
BLOOMINGTON IN 47401

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **NOT REPORTED**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 26

Distance from Property: 0.228 mi. (1,204 ft.) N
Elevation: 767 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **13845LUST**
FACILITY ID: **13845**
NAME: **WESTPART-AN INDIANA PARTNERSHIP**
ADDRESS: **314 W 7TH ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199206550**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **199212504**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **13845**
OWNER NAME: **WESTPART AN INDIANA PARTNERSHIP**
OWNER ADDRESS: **1310 NANCY ST**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **6/1/92**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **USED OIL**
CAPACITY: **500**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **6/9/87**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 26

Distance from Property: 0.228 mi. (1,204 ft.) N
Elevation: 767 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **13845**
FACILITY ID: **13845**
NAME: **WESTPART-AN INDIANA PARTNERSHIP**
ADDRESS: **314 W 7TH ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
OWNER NAME: **WESTPART AN INDIANA PARTNERSHIP**
ADDRESS: **1310 NANCY ST**
BLOOMINGTON IN 47401

FACILITY DETAILS

TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **6/1/1992**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **USED OIL**
CAPACITY: **500**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **6/9/1987**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 27

Distance from Property: 0.252 mi. (1,331 ft.) NE
Elevation: 780 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4141104**
REGULATORY ID: **4141104**
NAME: **PARKING LOT**
ADDRESS: **210 E 7TH ST**
BLOOMINGTON, IN 47403
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
COMFORT LETTER 2/18/2015
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
EVALUATE STRUCTURES FOR VAPOR INSTRUSION BY SAMPLING INDOOR AIR IR INSTALL VAPOR MITIGATION SYSTEM (VOCS IN SOIL)

Back to Report Summary

MAP ID# 28

Distance from Property: 0.256 mi. (1,352 ft.) NNE
Elevation: 780 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **17678LUST**
FACILITY ID: **17678**
NAME: **N33171**
ADDRESS: **301 N WASHINGTON ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199106548**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **NOT REPORTED**

UST DETAILS

FACILITY ID: **17678**
OWNER NAME: **AT & T SERVICES INC**
OWNER ADDRESS: **308 S AKARD RM 1700**
DALLAS TX 75202
TANK ID: **1**
SUBSTANCE: **DIESEL**
CAPACITY: **25000**
INSTALL DATE: **1/1/67**
CLOSURE DATE: **4/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **DIESEL**
CAPACITY: **25000**
INSTALL DATE: **1/1/67**
CLOSURE DATE: **4/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **DIESEL**
CAPACITY: **10000**
INSTALL DATE: **4/1/94**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

Back to Report Summary

MAP ID# 29

Distance from Property: 0.263 mi. (1,389 ft.) SSE
Elevation: 735 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **3608LUST**
FACILITY ID: **3608**
NAME: **DOWNTOWN 66 #20**
ADDRESS: **501 S WALNUT**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **200309512**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **3608**
OWNER NAME: **C & S INC**
OWNER ADDRESS: **2001 MAIN ST PO BOX 39**
TELL CITY IN 47586-0039
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **8/18/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **8/18/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **USED OIL**
CAPACITY: **560**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **8/18/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 30

Distance from Property: 0.27 mi. (1,426 ft.) SW
Elevation: 757 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **12204LUST**
FACILITY ID: **12204**
NAME: **VACANT CLARK OIL SERVICE STATION**
ADDRESS: **506 W 2ND ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199003522**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **12204**
OWNER NAME: **WEST SECOND STREET PARTNERSHIP**
OWNER ADDRESS: **514 W 2ND ST**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **1/1/70**
CLOSURE DATE: **2/15/90**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **1/1/70**
CLOSURE DATE: **2/15/90**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **1/1/70**
CLOSURE DATE: **2/15/90**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **4**

SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **1/1/70**
CLOSURE DATE: **2/15/90**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **5**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **1/1/70**
CLOSURE DATE: **2/15/90**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 30

Distance from Property: 0.272 mi. (1,436 ft.) SW
Elevation: 757 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **20498LUST**
FACILITY ID: **20498**
NAME: **CLARK STATION**
ADDRESS: **2ND & ROGERS ST**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199111097**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID:
OWNER NAME:
OWNER ADDRESS:

UST DETAILS NO UST DETAILS REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

MAP ID# 31

Distance from Property: 0.31 mi. (1,637 ft.) N
Elevation: 779 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000714527**
NAME: **ST SEMICONDUCTERS OF INDIANA**
ADDRESS: **415 N COLLEGE AVE**
BLOOMINGTON, IN 47401
CONTACT NAME: **LANE JORGENSEN**
CONTACT ADDRESS: **PO BOX 609**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-332-1435**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **ST SEMICONDUCTERS IND**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/21/1993	**CDI**	**CASE DEVELOPMENT INSPECTION**
02/13/2003	**SNN**	**NOT A SIGNIFICANT NON-COMPLIER**
05/23/1985	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
07/19/1993	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
08/15/1994	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
10/18/1996	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/07/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/08/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**SNY**	**SIGNIFICANT NON-COMPLIER**
11/29/1991	**CDI**	**CASE DEVELOPMENT INSPECTION**
12/18/1995	**CDI**	**CASE DEVELOPMENT INSPECTION**

12/18/1995	FCI FOCUSED COMPLIANCE INSPECTION

VIOLATIONS

01/21/1993	262.A GENERATORS - GENERAL
01/21/1993	262.B GENERATORS - MANIFEST
01/21/1993	264.B TSD - GENERAL FACILITY STANDARDS
07/19/1993	262.A GENERATORS - GENERAL
08/15/1994	262.D GENERATORS - RECORDS/REPORTING
11/08/1991	262.A GENERATORS - GENERAL
11/08/1991	262.B GENERATORS - MANIFEST
11/08/1991	262.C GENERATORS - PRE-TRANSPORT
11/08/1991	264.A TSD - GENERAL
11/08/1991	264.B TSD - GENERAL FACILITY STANDARDS
11/08/1991	264.C TSD - PREPAREDNESS AND PREVENTION
11/08/1991	264.D TSD - CONTINGENCY PLAN AND EMERGENCY PROCEDURES
11/08/1991	264.G TSD - CLOSURE/POST-CLOSURE
11/08/1991	264.H TSD - FINANCIAL REQUIREMENTS
11/08/1991	264.I TSD - CONTAINER USE AND MANAGEMENT
12/18/1995	262.A GENERATORS - GENERAL
12/18/1995	262.B GENERATORS - MANIFEST

ENFORCEMENTS

04/28/1993	310 FINAL 3008(A) COMPLIANCE ORDER
06/21/1999	310 FINAL 3008(A) COMPLIANCE ORDER
06/26/1995	210 INITIAL 3008(A) COMPLIANCE
08/17/1993	120 WRITTEN INFORMAL
08/30/1996	120 WRITTEN INFORMAL
09/01/1994	120 WRITTEN INFORMAL
09/04/1992	120 WRITTEN INFORMAL
09/16/1998	311 STATE COMPLIANCE ORDER 3008(A)
11/19/1993	310 FINAL 3008(A) COMPLIANCE ORDER

HAZARDOUS WASTE

F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE,TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE ANDCHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F003	**THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
F005	**THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
U002	**2-PROPANONE (I)**
U002	**ACETONE (I)**
U154	**METHANOL (I)**
U154	**METHYL ALCOHOL (I)**
U226	**ETHANE, 1,1,1-TRICHLORO-**
U226	**METHYL CHLOROFORM**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
ENTIRE FACILITY	**-----**	**-----**	**-----**	**-----**

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CA070NO**

EVENT DESCRIPTION: **DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY**

EVENT SEQUENCE NUMBER: **1**

EVENT RESPONSIBLE AGENCY: **EPA**

ACTUAL DATE OF EVENT: **05/01/2009**

ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**

NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

Back to Report Summary

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities (RCRASUBC)

MAP ID# 31

Distance from Property: 0.31 mi. (1,637 ft.) N
Elevation: 779 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000714527**
NAME: **ST SEMICONDUCTERS OF INDIANA**
ADDRESS: **415 N COLLEGE AVE**
BLOOMINGTON, IN 47401
CONTACT NAME: **LANE JORGENSEN**
CONTACT ADDRESS: **PO BOX 609**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-332-1435**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **ST SEMICONDUCTERS IND**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/21/1993	**CDI**	**CASE DEVELOPMENT INSPECTION**
02/13/2003	**SNN**	**NOT A SIGNIFICANT NON-COMPLIER**
05/23/1985	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
07/19/1993	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
08/15/1994	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
10/18/1996	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/07/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/08/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**SNY**	**SIGNIFICANT NON-COMPLIER**
11/29/1991	**CDI**	**CASE DEVELOPMENT INSPECTION**
12/18/1995	**CDI**	**CASE DEVELOPMENT INSPECTION**

12/18/1995	FCI FOCUSED COMPLIANCE INSPECTION

VIOLATIONS

01/21/1993	262.A GENERATORS - GENERAL
01/21/1993	262.B GENERATORS - MANIFEST
01/21/1993	264.B TSD - GENERAL FACILITY STANDARDS
07/19/1993	262.A GENERATORS - GENERAL
08/15/1994	262.D GENERATORS - RECORDS/REPORTING
11/08/1991	262.A GENERATORS - GENERAL
11/08/1991	262.B GENERATORS - MANIFEST
11/08/1991	262.C GENERATORS - PRE-TRANSPORT
11/08/1991	264.A TSD - GENERAL
11/08/1991	264.B TSD - GENERAL FACILITY STANDARDS
11/08/1991	264.C TSD - PREPAREDNESS AND PREVENTION
11/08/1991	264.D TSD - CONTINGENCY PLAN AND EMERGENCY PROCEDURES
11/08/1991	264.G TSD - CLOSURE/POST-CLOSURE
11/08/1991	264.H TSD - FINANCIAL REQUIREMENTS
11/08/1991	264.I TSD - CONTAINER USE AND MANAGEMENT
12/18/1995	262.A GENERATORS - GENERAL
12/18/1995	262.B GENERATORS - MANIFEST

ENFORCEMENTS

04/28/1993	310 FINAL 3008(A) COMPLIANCE ORDER
06/21/1999	310 FINAL 3008(A) COMPLIANCE ORDER
06/26/1995	210 INITIAL 3008(A) COMPLIANCE
08/17/1993	120 WRITTEN INFORMAL
08/30/1996	120 WRITTEN INFORMAL
09/01/1994	120 WRITTEN INFORMAL
09/04/1992	120 WRITTEN INFORMAL
09/16/1998	311 STATE COMPLIANCE ORDER 3008(A)
11/19/1993	310 FINAL 3008(A) COMPLIANCE ORDER

HAZARDOUS WASTE

F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE,TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE ANDCHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F003	**THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
F005	**THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
U002	**2-PROPANONE (I)**
U002	**ACETONE (I)**
U154	**METHANOL (I)**
U154	**METHYL ALCOHOL (I)**
U226	**ETHANE, 1,1,1-TRICHLORO-**
U226	**METHYL CHLOROFORM**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
ENTIRE FACILITY	**-----**	**-----**	**-----**	**-----**

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CA070NO**

EVENT DESCRIPTION: **DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY**

EVENT SEQUENCE NUMBER: **1**

EVENT RESPONSIBLE AGENCY: **EPA**

ACTUAL DATE OF EVENT: **05/01/2009**

ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**

NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

Back to Report Summary

Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities (RCRAT)

MAP ID# 31

Distance from Property: 0.31 mi. (1,637 ft.) N
Elevation: 779 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000714527**
NAME: **ST SEMICONDUCTERS OF INDIANA**
ADDRESS: **415 N COLLEGE AVE**
BLOOMINGTON, IN 47401
CONTACT NAME: **LANE JORGENSEN**
CONTACT ADDRESS: **PO BOX 609**
BLOOMINGTON IN 47401
CONTACT PHONE: **812-332-1435**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**
CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

OWNER TYPE: **PRIVATE**
OWNER NAME: **ST SEMICONDUCTERS IND**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **NAME NOT REPORTED**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **YES**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **YES**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/21/1993	**CDI**	**CASE DEVELOPMENT INSPECTION**
02/13/2003	**SNN**	**NOT A SIGNIFICANT NON-COMPLIER**
05/23/1985	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
07/19/1993	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
08/15/1994	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
10/18/1996	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/07/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
11/08/1991	**FCI**	**FOCUSED COMPLIANCE INSPECTION**
11/08/1991	**SNY**	**SIGNIFICANT NON-COMPLIER**
11/29/1991	**CDI**	**CASE DEVELOPMENT INSPECTION**
12/18/1995	**CDI**	**CASE DEVELOPMENT INSPECTION**

12/18/1995	FCI FOCUSED COMPLIANCE INSPECTION

VIOLATIONS

01/21/1993	262.A GENERATORS - GENERAL
01/21/1993	262.B GENERATORS - MANIFEST
01/21/1993	264.B TSD - GENERAL FACILITY STANDARDS
07/19/1993	262.A GENERATORS - GENERAL
08/15/1994	262.D GENERATORS - RECORDS/REPORTING
11/08/1991	262.A GENERATORS - GENERAL
11/08/1991	262.B GENERATORS - MANIFEST
11/08/1991	262.C GENERATORS - PRE-TRANSPORT
11/08/1991	264.A TSD - GENERAL
11/08/1991	264.B TSD - GENERAL FACILITY STANDARDS
11/08/1991	264.C TSD - PREPAREDNESS AND PREVENTION
11/08/1991	264.D TSD - CONTINGENCY PLAN AND EMERGENCY PROCEDURES
11/08/1991	264.G TSD - CLOSURE/POST-CLOSURE
11/08/1991	264.H TSD - FINANCIAL REQUIREMENTS
11/08/1991	264.I TSD - CONTAINER USE AND MANAGEMENT
12/18/1995	262.A GENERATORS - GENERAL
12/18/1995	262.B GENERATORS - MANIFEST

ENFORCEMENTS

04/28/1993	310 FINAL 3008(A) COMPLIANCE ORDER
06/21/1999	310 FINAL 3008(A) COMPLIANCE ORDER
06/26/1995	210 INITIAL 3008(A) COMPLIANCE
08/17/1993	120 WRITTEN INFORMAL
08/30/1996	120 WRITTEN INFORMAL
09/01/1994	120 WRITTEN INFORMAL
09/04/1992	120 WRITTEN INFORMAL
09/16/1998	311 STATE COMPLIANCE ORDER 3008(A)
11/19/1993	310 FINAL 3008(A) COMPLIANCE ORDER

HAZARDOUS WASTE

F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE,TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE ANDCHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F003	**THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
F005	**THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
U002	**2-PROPANONE (I)**
U002	**ACETONE (I)**
U154	**METHANOL (I)**
U154	**METHYL ALCOHOL (I)**
U226	**ETHANE, 1,1,1-TRICHLORO-**
U226	**METHYL CHLOROFORM**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
ENTIRE FACILITY	**-----**	**-----**	**-----**	**-----**

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CA070NO**

EVENT DESCRIPTION: **DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY**

EVENT SEQUENCE NUMBER: **1**

EVENT RESPONSIBLE AGENCY: **EPA**

ACTUAL DATE OF EVENT: **05/01/2009**

ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**

NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

Back to Report Summary

MAP ID# 31

Distance from Property: 0.31 mi. (1,637 ft.) N
Elevation: 779 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200303041**
REGULATORY ID: **200303041**
NAME: **SMALLWOOD PLAZA LLC**
ADDRESS: **415 N COLLEGE**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **INITIAL INCIDENT REPORT INDICATES SOIL CONTAMINATON ONLY**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 31

Distance from Property: 0.31 mi. (1,637 ft.) N
Elevation: 779 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000714527**
SITE ID#: **0506585**
NAME: **ST. SEMICONDUCTERS OF INDIANA**
ADDRESS: **415 N. COLLEGE AVE**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
FEDERAL FACILITY: **NOT A FEDERAL FACILITY**
NPL: **NOT ON THE NPL**
NON NPL STATUS: **NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION**
SEMS SEARCH: CLICK HERE

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
DS - DISCOVERY	**NOT REPORTED**	**10/29/1991**	**STATE (FUND)**
PA - PRELIMINARY ASSESSMENT	**NOT REPORTED**	**9/16/1992**	**STATE (FUND)**
VS - ARCHIVE SITE	**NOT REPORTED**	**9/16/1992**	**EPA IN-HOUSE**

ACTION DESCRIPTIONS

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

Back to Report Summary

MAP ID# 32

Distance from Property: 0.33 mi. (1,742 ft.) WSW
Elevation: 771 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4130404**
REGULATORY ID: **4130404**
NAME: **BLOOMINGFOODS ELM HEIGHTS**
ADDRESS: **614 W 2ND ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **12/20/2013**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
NO FURTHER ACTION LETTER 9/19/2013
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO WATER WELL USE (VOCS IN GROUNDWATER)

Back to Report Summary

MAP ID# 33

Distance from Property: 0.355 mi. (1,874 ft.) NNE
Elevation: 807 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **199509168**
REGULATORY ID: **199509168**
NAME: **BANK ONE**
ADDRESS: **501 N. WALNUT**
BLOOMINGTON, IN 99999
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **NFA PACKAGE IN**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 34

Distance from Property: 0.362 mi. (1,911 ft.) SW
Elevation: 781 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **13106LUST**
FACILITY ID: **13106**
NAME: **BLOOMINGTON HOSPITAL**
ADDRESS: **601 W 2ND ST**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **198909154**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **199109541**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **13106**
OWNER NAME: **BLOOMINGTON HOSPITAL**
OWNER ADDRESS: **605 W 2ND ST**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **DIESEL**
CAPACITY: **20000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **9/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **DIESEL**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **9/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **DIESEL**
CAPACITY: **500**

INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **9/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **4**
SUBSTANCE: **DIESEL**
CAPACITY: **1000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **9/1/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **5**
SUBSTANCE: **UNKNOWN**
CAPACITY: **8000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **NOT REPORTED**
STATUS: **UNREGULATED (NOT BILLED)**

TANK ID: **6**
SUBSTANCE: **OTHER**
CAPACITY: **20000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **NOT REPORTED**
STATUS: **UNREGULATED (NOT BILLED)**

Back to Report Summary

MAP ID# 35

Distance from Property: 0.373 mi. (1,969 ft.) S
Elevation: 736 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4121209**
REGULATORY ID: **4121209**
NAME: **MONROE OIL CO**
ADDRESS: **229 W 1ST ST**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **5/7/2015**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
NO FURTHER ACTION LETTER 5/6/2015
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO RESIDENTIAL OR WATER WELL USE (SVOCS IN SOIL AND VOCS, SVOCS IN GROUNDWATER)

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 36

Distance from Property: 0.384 mi. (2,028 ft.) NNW
Elevation: 808 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **16741LUST**
FACILITY ID: **16741**
NAME: **BEASLEY PRODUCE CO INC**
ADDRESS: **501 NORTH ROGERS ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199105530**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **16741**
OWNER NAME: **BEASLEY PRODUCE INC**
OWNER ADDRESS: **PO BOX 1104**
BLOOMINGTON IN 47402
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **5/6/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **5/6/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **UNKNOWN**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **5/6/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **4**

SUBSTANCE: **UNKNOWN**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **5/6/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **5**
SUBSTANCE: **UNKNOWN**
CAPACITY: **NOT REPORTED**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **5/6/91**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 37

Distance from Property: 0.384 mi. (2,028 ft.) E
Elevation: 748 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200002039**
REGULATORY ID: **200002039**
NAME: **PEOPLES PARK**
ADDRESS: **501 EAST KIRKWOOD**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**
STATUS: **SITE IS INACTIVE**
SITE DESCRIPTION: **CITY PARK**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 38

Distance from Property: 0.392 mi. (2,070 ft.) S
Elevation: 736 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4020024**
REGULATORY ID: **4020024**
NAME: **OLD SIRA OFFICE BUILDING**
ADDRESS: **660 S COLLEGE AVE**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **YES**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **6/11/2004** **ERC MOD 3/23/17**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
COMMENT LETTER 3/10/2017
COMMENT LETTER (3) 12/5/2016
COMFORT LETTER 3/26/2004
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NO RESIDENTIAL, WATER WELLS, EXCAVATION IN THE AFFECTED AREA (TPH IN SOILS, SVOCS IN GROUNDWATER)

Back to Report Summary

MAP ID# 39

Distance from Property: 0.394 mi. (2,080 ft.) S
Elevation: 736 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200306062**
REGULATORY ID: **200306062**
NAME: **MONROE OIL COMPANY**
ADDRESS: **229 W 1ST STREET**
BLOOMINGTON, IN 47402
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **DIESEL SPILL AT BULK FACILITY**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 40

Distance from Property: 0.399 mi. (2,107 ft.) S
Elevation: 729 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **0000670**
REGULATORY ID: **0000670**
NAME: **MCGLOTHLIN**
ADDRESS: **600 S. WALNUT ST.**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
STATUS: **SITE IS ACTIVE**
SITE DESCRIPTION: **HIST LUST OLD GAS STATION**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 41

Distance from Property: 0.404 mi. (2,133 ft.) NNW
Elevation: 783 ft. (Higher than TP)

SITE INFORMATION

ID#: **171986**

NAME: **VACANT LOT**

ADDRESS: **N. ROGERS STREET**
BLOOMINGTON, IN 47404

TYPE FUNDING: **HAZARDOUS**

PREDOMINANT PAST USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
NOT REPORTED	**1**	**NOT REPORTED**	**2.95**

FUTURE USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
NOT REPORTED	**2**	**1.95**	**NOT REPORTED**

PROPERTY HIGHLIGHT:

NOT REPORTED

PROPERTY SIZE (Acres): **3.95**

CURRENT OWNER: **CITY OF BLOOMINGTON REDEVELOPMENT COMMISSION**

PROPERTY DESCRIPTION/ FORMER USE:

THE SITE IS BOUNDED BY COMMERCIAL PROPERTIES TO THE NORTH AND EAST, WITH LIGHT INDUSTRIAL PROPERTIES TO THE WEST AND SOUTH. THE SUBJECT SITE IS CURRENTLY OWNED BY THE CITY OF BLOOMINGTON REDEVELOPMENT COMMISSION. PARTS OF THE SITE HISTORICALLY OPERATED IN PART AS A WASHING MACHINE MANUFACTURE (1898-1907), BASKET MANUFACTURING FACILITY (1907-1955), A FARM & FEED OPERATION (1931-1963), AND AS AN AUTO REPAIR SHOP/JUNK YARD FROM 1963-1984. THE NORTHERN PORTION OF THE SITE REMAINED RESIDENTIAL FROM APPROXIMATELY 1898-2012. THE FACILITY HAS BEEN VACANT SINCE THAT TIME. THE FOLLOWING GENERAL HISTORICAL CHAIN OF OWNERSHIP INFORMATION WAS OBTAINED FROM INTERNET SOURCES (SEE SECTION 4.4.4): NAME YEARS OWNED UNKNOWN PRIOR TO 1959 INDIANA UNIVERSITY 1959 - 09/06/2011 CITY OF BLOOMINGTON REDEVELOPMENT COMMISSION 09/06/2011 - PRESENT

CONTAMINATE(S): **LEAD, OTHER METALS, PAHS**

CONTAMINATE(S) CLEANED UP: **NOT REPORTED**

MEDIA(S) AFFECTED: **SOIL**

MEDIA(S) CLEANED UP: **NOT REPORTED**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE I ENVIRONMENTAL ASSESSMENT**

ASSESSMENT START DATE: **8/28/2016 0:00**

ASSESSMENT COMPLETION DATE: **9/15/2016 0:00**

CLEANUP REQUIRED: **NO**

STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**

STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**

PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**

ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **CLEANUP PLANNING**

ASSESSMENT START DATE: **6/1/2016 0:00**

ASSESSMENT COMPLETION DATE: **9/25/2016 0:00**

CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE II ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **6/1/2016 0:00**
ASSESSMENT COMPLETION DATE: **7/18/2016 0:00**
CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **CLEANUP PLANNING**
ASSESSMENT START DATE: **5/4/2015 0:00**
ASSESSMENT COMPLETION DATE: **6/12/2015 0:00**
CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **SUPPLEMENTAL ASSESSMENT**
ASSESSMENT START DATE: **9/8/2014 0:00**
ASSESSMENT COMPLETION DATE: **1/22/2015 0:00**
CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE II ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **3/18/2014 0:00**
ASSESSMENT COMPLETION DATE: **8/30/2014 0:00**
CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE I ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **1/29/2014 0:00**
ASSESSMENT COMPLETION DATE: **4/4/2014 0:00**
CLEANUP REQUIRED: **NO**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **7/5/2016 0:00**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **YES**

Back to Report Summary

MAP ID# 41

Distance from Property: 0.411 mi. (2,170 ft.) NNW
Elevation: 783 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200206110**
REGULATORY ID: **200206110**
NAME: **CINERGY BLOOMINGTON**
ADDRESS: **517 - 519 W 10TH ST**
BLOOMINGTON, IN 47408
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **OIL SPILL**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

MAP ID# 42

Distance from Property: 0.412 mi. (2,175 ft.) N
Elevation: 792 ft. (Higher than TP)

SITE INFORMATION

ID#: **171984**

NAME: **MORTON PARKING LOT**

ADDRESS: **555 N. MORTON STREET**
BLOOMINGTON, IN 47404

TYPE FUNDING: **HAZARDOUS**

PREDOMINANT PAST USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
NOT REPORTED	**NOT REPORTED**	**NOT REPORTED**	**0.85**

FUTURE USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
0.85	**NOT REPORTED**	**NOT REPORTED**	**NOT REPORTED**

PROPERTY HIGHLIGHT:
NOT REPORTED

PROPERTY SIZE (Acres): **0.85**

CURRENT OWNER: **MORTON STREET PROPERTIES, LLC**

PROPERTY DESCRIPTION/ FORMER USE:
THE SUBJECT SITE IS CURRENTLY OWNED BY MORTON STREET PROPERTIES LLC. THE SITE OPERATED HISTORICALLY AS PART OF A FURNITURE MANUFACTURING FACILITY FROM AT LEAST 1913 UNTIL EARLY 1959, A UNIVERSITY WAREHOUSE UNTIL 1966 AND A VACANT LOT UNTIL AT LEAST 1998. SOMETIME BETWEEN 1998 AND 2005, THE PROPERTY WAS REDEVELOPED AS A COMMERCIAL PARKING LOT. THE FOLLOWING GENERAL HISTORICAL CHAIN OF OWNERSHIP INFORMATION WAS OBTAINED FROM INTERNET SOURCES: NAME YEARS OWNED SHOWERS BROS. FURNITURE COMPANY UNKNOWN - 1955 STORK LINE FURNITURE CO. OF CHICAGO 1955 - 1959 INDIANA UNIVERSITY 1959 - 1999 HIRONS INVESTMENTS, LLC 1999 - 2008 MORTON STREET PROPERTIES, LLC 2008 - PRESENT

CONTAMINATE(S): **VOCS, OTHER METALS, PAHS**

CONTAMINATE(S) CLEANED UP: **NOT REPORTED**

MEDIA(S) AFFECTED: **SOIL, GROUND WATER**

MEDIA(S) CLEANED UP: **NOT REPORTED**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **CLEANUP PLANNING**

ASSESSMENT START DATE: **5/4/2015 0:00**

ASSESSMENT COMPLETION DATE: **6/12/2015 0:00**

CLEANUP REQUIRED: **UNKNOWN**

STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**

STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**

PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**

ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **SUPPLEMENTAL ASSESSMENT**

ASSESSMENT START DATE: **9/8/2014 0:00**

ASSESSMENT COMPLETION DATE: **1/22/2015 0:00**

CLEANUP REQUIRED: **UNKNOWN**

STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**

STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE II ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **3/18/2014 0:00**
ASSESSMENT COMPLETION DATE: **8/30/2014 0:00**
CLEANUP REQUIRED: **UNKNOWN**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE I ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **1/29/2014 0:00**
ASSESSMENT COMPLETION DATE: **3/31/2014 0:00**
CLEANUP REQUIRED: **UNKNOWN**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

Back to Report Summary

State Cleanup Sites (SCP)

MAP ID# 43

Distance from Property: 0.414 mi. (2,186 ft.) N
Elevation: 798 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **201443816**
REGULATORY ID: **201443816**
NAME: **THE FARMER HOUSE MUSEUM PROPERTY**
ADDRESS: **531 NORTH COLLEGE AVENUE**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
STATUS: **NO FURTHER ACTION**
SITE DESCRIPTION: **HISTORIC UST SITE. NO FID # LISTED. GAS STATION PRIOR TO 1970S ACCORDING TO PHASE I REPORT.**
PROGRAM: **STATE CLEAN-UP SITES**

Back to Report Summary

Leaking Underground Storage Tanks (LUST)

MAP ID# 44

Distance from Property: 0.415 mi. (2,191 ft.) ENE
Elevation: 756 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4103LUST**
FACILITY ID: **4103**
NAME: **INDIANA UNIVERSITY POPLARS BUILDING**
ADDRESS: **DUNN ST & 7TH ST**
BLOOMINGTON, IN 47408
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199811539**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **4103**
OWNER NAME: **INDIANA UNIV TAX DEPT**
OWNER ADDRESS: **400 E 7TH ST POPLARS ROOM 503**
BLOOMINGTON IN 47405
TANK ID: **1**
SUBSTANCE: **DIESEL**
CAPACITY: **1000**
INSTALL DATE: **1/1/72**
CLOSURE DATE: **11/13/98**
STATUS: **PERMANENTLY OUT OF SERVICE**

Back to Report Summary

MAP ID# 45

Distance from Property: 0.416 mi. (2,196 ft.) E
Elevation: 783 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **1028LUST**
FACILITY ID: **1028**
NAME: **CIRCLE K 0033**
ADDRESS: **527 E 3RD ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199007534**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **199007534**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **GROUNDWATER**

INCIDENT NUMBER: **199007534**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **GEOLOGICALLY SUSCEPT**

INCIDENT NUMBER: **199007534**
PRIORITY: **HIGH**
DESCRIPTION: **NFA-CONDITIONAL CLOSURE**
AFFECTED AREA: **FREE PRODUCT**

UST DETAILS

FACILITY ID: **1028**
OWNER NAME: **KOOSHTARD PROPERTY V LLC**
OWNER ADDRESS: **1370 AVENUE OF THE AMERICAS**
NEW YORK NY 10019
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/1/71**
CLOSURE DATE: **1/7/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
INSTALL DATE: **1/1/60**
CLOSURE DATE: **1/8/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
INSTALL DATE: **1/1/60**
CLOSURE DATE: **1/8/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **4**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
INSTALL DATE: **1/1/60**
CLOSURE DATE: **1/9/03**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **5**
SUBSTANCE: **USED OIL**
CAPACITY: **550**
INSTALL DATE: **1/1/85**
CLOSURE DATE: **7/1/92**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **6**
SUBSTANCE: **GASOLINE**
CAPACITY: **12000**
INSTALL DATE: **1/12/03**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

TANK ID: **7**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
INSTALL DATE: **1/10/03**
CLOSURE DATE: **NOT REPORTED**
STATUS: **CURRENTLY IN USE**

Back to Report Summary

MAP ID# 46

Distance from Property: 0.428 mi. (2,260 ft.) N
Elevation: 792 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **4180903**
REGULATORY ID: **4180903**
NAME: **SHOWERS ADMINISTRATION BUILDING**
ADDRESS: **601 N MORTON ST**
BLOOMINGTON, IN 47406
COUNTY: **MONROE**
ENVIRONMENT RESTRICTIVE COVENANT (ERC): **NOT REPORTED**
RECORDATION DATE FOR ERC AND/OR CLOSURE LETTER: **NOT REPORTED**
FINANCIAL ASSISTANCE:
NOT REPORTED
OTHER ASSISTANCE:
NOT REPORTED
LAND USE RESTRICTION(S), CONTAMINANTS OF CONCERN, AFFECTED MEDIA:
NOT REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Corrective Action Facilities (RCRAC)

MAP ID# 46

Distance from Property: 0.428 mi. (2,260 ft.) N
Elevation: 792 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000815423**
NAME: **INDIANA UNIVERSITY SHOWERS WAREHOUSE**
ADDRESS: **601 N MORTON**
BLOOMINGTON, IN 47404
CONTACT NAME: **ROBERT WEBB**
CONTACT ADDRESS: **601 N MORTON**
BLOOMINGTON IN 47404
CONTACT PHONE: **812-337-6311**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **02/20/1996**

OWNER TYPE: **STATE**
OWNER NAME: **THE TRUSTEE OF INDIANA UNIVERSITY**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JASON R BANACH	**ENV TECHNICIAN**	**02/20/1996**
DAN G DERHEIMER	**HAZ. MAT. MGR.**	**02/21/1994**
DAN G DERKHEIMER	**HAZ MAT MGR**	**02/14/1992**

INDUSTRY CLASSIFICATION (NAICS)

61131 - COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **YES**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/30/1990	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
02/07/1991	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
03/25/1992	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
04/12/1995	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
05/13/1993	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
05/25/1994	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
07/18/1989	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**

07/26/1988	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/01/1996	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/22/1995	FCI FOCUSED COMPLIANCE INSPECTION
09/16/1992	CAC CORRECTIVE ACTION COMPLIANCE EVALUATION
09/20/1993	FCI FOCUSED COMPLIANCE INSPECTION

VIOLATIONS

05/13/1993	264.A TSD - GENERAL

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000	
D001	IGNITABLE WASTE
D002	CORROSIVE WASTE
D003	REACTIVE WASTE
D004	ARSENIC
P010	ARSENIC ACID H3ASO4
P012	ARSENIC OXIDE AS2O3
P012	ARSENIC TRIOXIDE
P016	DICHLOROMETHYL ETHER
P016	METHANE, OXYBIS[CHLORO-
P022	CARBON DISULFIDE
P030	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
P053	
P054	AZIRIDINE
P054	ETHYLENEIMINE
P087	OSMIUM OXIDE OSO4, (T-4)-
P087	OSMIUM TETROXIDE
P098	POTASSIUM CYANIDE
P098	POTASSIUM CYANIDE K(CN)
P105	SODIUM AZIDE
P106	SODIUM CYANIDE
P106	SODIUM CYANIDE NA(CN)
P116	HYDRAZINECARBOTHIOAMIDE
P116	THIOSEMICARBAZIDE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
PCB CONTAINER STORAG	-----	-----	Y	-----
RADIOACTIVE CONT/STO	-----	-----	Y	-----
ENTIRE FACILITY	-----	-----	Y	-----

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CA800YE**

EVENT DESCRIPTION: **READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE**

EVENT SEQUENCE NUMBER: **1**

EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **09/21/2012**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA725YE**
EVENT DESCRIPTION: **HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA750YE**
EVENT DESCRIPTION: **RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA900NC**
EVENT DESCRIPTION: **CA PERFORMANCE STANDARDS ATTAINED - NO CONTROLS NECESSARY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA550NR**
EVENT DESCRIPTION: **REMEDY CONSTRUCTION-NO REMEDY CONSTRUCTED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **12/18/1995**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA210**
EVENT DESCRIPTION: **REFERRED TO A NON-RCRA AUTHORITY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **10/28/1992**

ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA999**
EVENT DESCRIPTION: **CA PROCESS IS TERMINATED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **10/28/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA077**
EVENT DESCRIPTION: **SITE VISIT**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/22/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA200**
EVENT DESCRIPTION: **INVESTIGATION COMPLETE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/25/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA160**
EVENT DESCRIPTION: **INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **11/14/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA075ME**
EVENT DESCRIPTION: **CA PRIORITIZATION-MEDIUM CA PRIORITY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/27/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA155**
EVENT DESCRIPTION: **INVESTIGATION SUPPLEMENTAL INFO REQ BY AGENCY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/11/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA190**
EVENT DESCRIPTION: **INVESTIGATION REPORT RECEIVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **08/01/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA100DC**
EVENT DESCRIPTION: **RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/28/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA150**
EVENT DESCRIPTION: **INVESTIGATION WORKPLAN APPROVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/28/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA400**
EVENT DESCRIPTION: **REMEDY DECISION**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **08/31/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA050**

EVENT DESCRIPTION: **RFA COMPLETED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/09/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA070YE**
EVENT DESCRIPTION: **DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/09/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

Back to Report Summary

Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities (RCRAT)

MAP ID# 46

Distance from Property: 0.428 mi. (2,260 ft.) N
Elevation: 792 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND000815423**
NAME: **INDIANA UNIVERSITY SHOWERS WAREHOUSE**
ADDRESS: **601 N MORTON**
BLOOMINGTON, IN 47404
CONTACT NAME: **ROBERT WEBB**
CONTACT ADDRESS: **601 N MORTON**
BLOOMINGTON IN 47404
CONTACT PHONE: **812-337-6311**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **02/20/1996**

OWNER TYPE: **STATE**
OWNER NAME: **THE TRUSTEE OF INDIANA UNIVERSITY**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JASON R BANACH	**ENV TECHNICIAN**	**02/20/1996**
DAN G DERHEIMER	**HAZ. MAT. MGR.**	**02/21/1994**
DAN G DERKHEIMER	**HAZ MAT MGR**	**02/14/1992**

INDUSTRY CLASSIFICATION (NAICS)

61131 - COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NON-GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **YES**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

01/30/1990	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
02/07/1991	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
03/25/1992	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
04/12/1995	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
05/13/1993	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
05/25/1994	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
07/18/1989	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**

07/26/1988	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/01/1996	CEI COMPLIANCE EVALUATION INSPECTION ON-SITE
08/22/1995	FCI FOCUSED COMPLIANCE INSPECTION
09/16/1992	CAC CORRECTIVE ACTION COMPLIANCE EVALUATION
09/20/1993	FCI FOCUSED COMPLIANCE INSPECTION

VIOLATIONS

05/13/1993	264.A TSD - GENERAL

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000	
D001	IGNITABLE WASTE
D002	CORROSIVE WASTE
D003	REACTIVE WASTE
D004	ARSENIC
P010	ARSENIC ACID H3ASO4
P012	ARSENIC OXIDE AS2O3
P012	ARSENIC TRIOXIDE
P016	DICHLOROMETHYL ETHER
P016	METHANE, OXYBIS[CHLORO-
P022	CARBON DISULFIDE
P030	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
P053	
P054	AZIRIDINE
P054	ETHYLENEIMINE
P087	OSMIUM OXIDE OSO4, (T-4)-
P087	OSMIUM TETROXIDE
P098	POTASSIUM CYANIDE
P098	POTASSIUM CYANIDE K(CN)
P105	SODIUM AZIDE
P106	SODIUM CYANIDE
P106	SODIUM CYANIDE NA(CN)
P116	HYDRAZINECARBOTHIOAMIDE
P116	THIOSEMICARBAZIDE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA (RELEASE)

AREA NAME:	AIR:	GROUNDWATER:	SOIL:	SURFACE WASTE:
PCB CONTAINER STORAG	-----	-----	Y	-----
RADIOACTIVE CONT/STO	-----	-----	Y	-----
ENTIRE FACILITY	-----	-----	Y	-----

CORRECTIVE ACTION EVENT

CA EVENT CODE: **CA800YE**

EVENT DESCRIPTION: **READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE**

EVENT SEQUENCE NUMBER: **1**

EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **09/21/2012**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA725YE**
EVENT DESCRIPTION: **HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA750YE**
EVENT DESCRIPTION: **RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA900NC**
EVENT DESCRIPTION: **CA PERFORMANCE STANDARDS ATTAINED - NO CONTROLS NECESSARY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **01/09/2009**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA550NR**
EVENT DESCRIPTION: **REMEDY CONSTRUCTION-NO REMEDY CONSTRUCTED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **12/18/1995**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA210**
EVENT DESCRIPTION: **REFERRED TO A NON-RCRA AUTHORITY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **10/28/1992**

ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA999**
EVENT DESCRIPTION: **CA PROCESS IS TERMINATED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **10/28/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA077**
EVENT DESCRIPTION: **SITE VISIT**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/22/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA200**
EVENT DESCRIPTION: **INVESTIGATION COMPLETE**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/25/1992**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA160**
EVENT DESCRIPTION: **INVESTIGATION SUPPLEMENTAL INFORMATION RECEIVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **11/14/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA075ME**
EVENT DESCRIPTION: **CA PRIORITIZATION-MEDIUM CA PRIORITY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/27/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA155**
EVENT DESCRIPTION: **INVESTIGATION SUPPLEMENTAL INFO REQ BY AGENCY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/11/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA190**
EVENT DESCRIPTION: **INVESTIGATION REPORT RECEIVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **08/01/1991**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA100DC**
EVENT DESCRIPTION: **RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/28/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA150**
EVENT DESCRIPTION: **INVESTIGATION WORKPLAN APPROVED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **09/28/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA400**
EVENT DESCRIPTION: **REMEDY DECISION**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **STATE**
ACTUAL DATE OF EVENT: **08/31/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA050**

EVENT DESCRIPTION: **RFA COMPLETED**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/09/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

CA EVENT CODE: **CA070YE**
EVENT DESCRIPTION: **DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY**
EVENT SEQUENCE NUMBER: **1**
EVENT RESPONSIBLE AGENCY: **EPA**
ACTUAL DATE OF EVENT: **02/09/1990**
ORIGINAL SCHEDULE DATE OF EVENT: **NOT REPORTED**
NEW SCHEDULE DATE OF EVENT: **NOT REPORTED**

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MAP ID# 47

Distance from Property: 0.451 mi. (2,381 ft.) NNE
Elevation: 819 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **92LUST**
FACILITY ID: **92**
NAME: **SHELL DEALER BLOOMINGTON N WALNUT ST**
ADDRESS: **602 N WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **200002519**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **200002519**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **MTBE**

INCIDENT NUMBER: **200002519**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **GROUNDWATER**

INCIDENT NUMBER: **200002519**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **GEOLOGICALLY SUSCEPT**

UST DETAILS

FACILITY ID: **92**
OWNER NAME: **EQUILON ENTERPRISES**
OWNER ADDRESS: **11057 ALLISONVILLE RD**
FISHERS IN 46038-2698
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **9728**
INSTALL DATE: **1/1/85**
CLOSURE DATE: **2/25/00**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **2**
SUBSTANCE: **GASOLINE**
CAPACITY: **9728**
INSTALL DATE: **1/1/85**
CLOSURE DATE: **2/25/00**
STATUS: **PERMANENTLY OUT OF SERVICE**

TANK ID: **3**
SUBSTANCE: **GASOLINE**
CAPACITY: **9728**
INSTALL DATE: **1/1/85**
CLOSURE DATE: **2/25/00**
STATUS: **PERMANENTLY OUT OF SERVICE**

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MAP ID# 48

Distance from Property: 0.455 mi. (2,402 ft.) E
Elevation: 762 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **200203196**
REGULATORY ID: **200203196**
NAME: **INDIANA UNIVERSITY MUSICAL ARTS CENTER**
ADDRESS: **107 S INDIANA AVE**
BLOOMINGTON, IN 46405
COUNTY: **MONROE**
STATUS: **SITE IS INACTIVE**
SITE DESCRIPTION: **HYDRAULIC OIL FROM LIFTS FROM UNDER IU MUSICAL ART CENTER**
PROGRAM: **STATE CLEAN-UP SITES**

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Leaking Underground Storage Tanks (LUST)

MAP ID# 49

Distance from Property: 0.464 mi. (2,450 ft.) S
Elevation: 729 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **22095LUST**
FACILITY ID: **22095**
NAME: **THE WAREHOUSE FORMER GREASE PIT**
ADDRESS: **735 S COLLEGE AVE**
BLOOMINGTON, IN 47403
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **201409513**
PRIORITY: **MEDIUM**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

INCIDENT NUMBER: **201409513**
PRIORITY: **MEDIUM**
DESCRIPTION: **ACTIVE**
AFFECTED AREA: **GROUNDWATER**

UST DETAILS

FACILITY ID: **22095**
OWNER NAME: **SCOFIELD DUNCAN REVOCABLE TRUST**
OWNER ADDRESS: **325 E CLOVER LANE**
BLOOMINGTON IN 47408
TANK ID: **1**
SUBSTANCE: **USED OIL**
CAPACITY: **4000**
INSTALL DATE: **1/29/96**
CLOSURE DATE: **9/3/13**
STATUS: **PERMANENTLY OUT OF SERVICE**

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 50

Distance from Property: 0.476 mi. (2,513 ft.) NNW
Elevation: 798 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **IND016208795**
SITE ID#: **0501367**
NAME: **FELL IRON & METAL INC**
ADDRESS: **503 ROGERS STREET**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**
FEDERAL FACILITY: **NOT A FEDERAL FACILITY**
NPL: **NOT ON THE NPL**
NON NPL STATUS: **NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION**
SEMS SEARCH: **CLICK HERE**

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
AR - ADMINISTRATIVE RECORDS	**3/26/1991**	**NOT REPORTED**	**FED ENFORCE**
BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL	**7/6/1988**	**1/26/1996**	**PRP RSP FED**
DS - DISCOVERY	**NOT REPORTED**	**3/1/1985**	**EPA FUND**
PA - PRELIMINARY ASSESSMENT	**NOT REPORTED**	**3/29/1985**	**EPA FUND**
SI - SITE INSPECTION	**NOT REPORTED**	**9/8/1986**	**EPA FUND**
VS - ARCHIVE SITE	**NOT REPORTED**	**8/11/1995**	**EPA IN-HOUSE**

ACTION DESCRIPTIONS

AR - (ADMINISTRATIVE RECORDS) - SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

BB - (POTENTIALLY RESPONSIBLE PARTY REMOVAL) - PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

SI - (SITE INSPECTION) - THE PROCESS OF COLLECTING SITE DATA AND SAMPLES TO CHARACTERIZE THE SEVERITY OF THE HAZARD FOR THE HAZARD RANKING SCORE AND/OR ENFORCEMENT SUPPORT.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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MAP ID# 51

Distance from Property: 0.49 mi. (2,587 ft.) NNW
Elevation: 804 ft. (Higher than TP)

SITE INFORMATION

ID#: **171345**

NAME: **FORMER IU FOOD STORAGE BUILDING**

ADDRESS: **600 NORTH ROGERS STREET**
BLOOMINGTON, IN 47404

TYPE FUNDING: **HAZARDOUS**

PREDOMINANT PAST USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
NOT REPORTED	**NOT REPORTED**	**NOT REPORTED**	**4.1**

FUTURE USE (ACREAGE):

GREENSPACE:	RESIDENTIAL:	COMMERCIAL:	INDUSTRIAL:
NOT REPORTED	**NOT REPORTED**	**4.1**	**NOT REPORTED**

PROPERTY HIGHLIGHT:

NOT REPORTED

PROPERTY SIZE (Acres): **4.1**

CURRENT OWNER: **CITY OF BLOOMINGTON REDEVELOPMENT COMMISSION**

PROPERTY DESCRIPTION/ FORMER USE:

THE FOLLOWING GENERAL HISTORICAL CHAIN OF OWNERSHIP INFORMATION WAS OBTAINED: NAME YEARS OWNED SHOWERS BROS. FURNITURE COMPANY UNKNOWN - 1955 STORK LINE FURNITURE CO. OF CHICAGO 1955 - 1959 INDIANA UNIVERSITY 1959 - 09/06/2011 CITY OF BLOOMINGTON REDEVELOPMENT COMMISSION 09/06/2011 - PRESENT THE SHOWERS BROS. FURNITURE COMPANY FACTORY OPERATED ON THE SUBJECT SITE FROM APPROXIMATELY 1913 THROUGH 1955, WHEN IT WAS SOLD TO STORKLINE FURNITURE COMPANY OF CHICAGO. IT OPERATED SEVERAL MORE YEARS UNTIL APPROXIMATELY 1958 AND WAS CLOSED. INDIANA UNIVERSITY PURCHASED THE PROPERTY IN 1959, USING THE BUILDINGS FOR STORAGE UNTIL THEY WERE DESTROYED BY FIRES IN 1966. IN 1971, IU ERECTED THE FOOD STORAGE BUILDING WHERE IT OPERATED UNTIL 2010. (ONLINE SOURCE -- HTTPS://BLOOMINGTON.IN.GOV/MEDIA/MEDIA/APPLICATION/PDF/5461.PDF)

CONTAMINATE(S): **OTHER METALS, PAHS**

CONTAMINATE(S) CLEANED UP: **NOT REPORTED**

MEDIA(S) AFFECTED: **SOIL**

MEDIA(S) CLEANED UP: **NOT REPORTED**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **CLEANUP PLANNING**

ASSESSMENT START DATE: **5/4/2015 0:00**

ASSESSMENT COMPLETION DATE: **6/12/2015 0:00**

CLEANUP REQUIRED: **UNKNOWN**

STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**

STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**

PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**

ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**

ENVIRONMENTAL ASSESSMENT ACTIVITY: **SUPPLEMENTAL ASSESSMENT**

ASSESSMENT START DATE: **9/8/2014 0:00**

ASSESSMENT COMPLETION DATE: **1/22/2015 0:00**

CLEANUP REQUIRED: **UNKNOWN**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE II ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **3/18/2014 0:00**
ASSESSMENT COMPLETION DATE: **8/30/2014 0:00**
CLEANUP REQUIRED: **UNKNOWN**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

TYPE OF BROWNFIELD GRANT: **ASSESSMENT**
ENVIRONMENTAL ASSESSMENT ACTIVITY: **PHASE I ENVIRONMENTAL ASSESSMENT**
ASSESSMENT START DATE: **1/29/2014 0:00**
ASSESSMENT COMPLETION DATE: **3/6/2014 0:00**
CLEANUP REQUIRED: **UNKNOWN**
STATE & TRIBAL ENROLLMENT ID: **NOT REPORTED**
STATE & TRIBAL ENROLLMENT DATE: **NOT REPORTED**
PROPERTY ENROLLED IN A STATE & TRIBAL PROGRAM?: **NOT REPORTED**
ARE INSTITUTIONAL CONTROLS REQUIRED?: **UNKNOWN**

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Leaking Underground Storage Tanks (LUST)

MAP ID# 52

Distance from Property: 0.497 mi. (2,624 ft.) S
Elevation: 727 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **18530LUST**
FACILITY ID: **18530**
NAME: **FLOWER BOWL**
ADDRESS: **756 S WALNUT ST**
BLOOMINGTON, IN 47401
COUNTY: **MONROE**

LUST DETAILS

INCIDENT NUMBER: **199206544**
PRIORITY: **LOW**
DESCRIPTION: **NFA-UNCONDITIONAL CLOSURE**
AFFECTED AREA: **SOIL**

UST DETAILS

FACILITY ID: **18530**
OWNER NAME: **CITY OF BLOOMINGTON**
OWNER ADDRESS: **220 E 3RD ST PO BOX 100**
BLOOMINGTON IN 47401
TANK ID: **1**
SUBSTANCE: **GASOLINE**
CAPACITY: **550**
INSTALL DATE: **NOT REPORTED**
CLOSURE DATE: **1/6/92**
STATUS: **PERMANENTLY OUT OF SERVICE**

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State Superfund Sites (SF)

MAP ID# 53

Distance from Property: 0.947 mi. (5,000 ft.) W
Elevation: 820 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **7500018B**
REGULATORY ID: **7500018B**
EPA ID: **NOT REPORTED**
NAME: **ILLINOIS CENTRAL SPRING WATER TREATMENT FACILITY**
ADDRESS: **STREET NOT REPORTED**
BLOOMINGTON, IN 47404
COUNTY: **MONROE**
INDICATOR: **NOT REPORTED**
SITE DESCRIPTON: **NOT REPORTED**
STATUS: **NOT REPORTED**
PROGRAM: **SUPERFUND SITES**

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

Database Name	Site ID#	Site Name	Address	City/State/Zip/County
RCRAC	IND984896431*C	INDIANA UNIVERSITY EXPLOSIVES HUT	GOLF COURSE RD	BLOOMINGTON, IN 47405 MONROE
RCRASUBC	IND984896431*SUBC	INDIANA UNIVERSITY EXPLOSIVES HUT	GOLF COURSE RD	BLOOMINGTON, IN 47405 MONROE
SEMSARCH	IND980825657*ARCH	#1 RAVINE UNDER LAKE MONROE	ADDRESS UNREPORTED	BLOOMINGTON, IN 47401 MONROE
SEMSARCH	IND980825608*ARCH	#2 MULE HOLE AT BENNETT QUARRY	ADDRESS UNREPORTED	BLOOMINGTON, IN 47401 MONROE
SEMSARCH	IND980500219*ARCH	BLOOMINGTON CITY OF	ADDRESS UNREPORTED	BLOOMINGTON, IN 47401 MONROE
SEMSARCH	IND984868075*ARCH	FLANDERS SALVAGE SITE	CLEAR CREEK, SECTION 35	BLOOMINGTON, IN 47401 MONROE
SEMSARCH	IND981200553*ARCH	ILLINOIS GULF CENTRAL RR RIGHT-OF-WAY	SW1/4 SEC32 T9N R1W	BLOOMINGTON, IN 47401 MONROE
SEMSARCH	IND981093636*ARCH	SITE #05 BLOOMINGTON	JCT W 11TH VERNAL PIKE	BLOOMINGTON, IN 47401 MONROE

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 10/05/17

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination. The data included in this report was extracted from the final CERCLIS dataset (CERCLIS was a Superfund data system that EPA decommissioned in 2014 following its deployment of the Superfund Enterprise Management System), which represents program progress as of the end of fiscal year 2013.

ECHOR05 Enforcement and Compliance History Information

VERSION DATE: 03/09/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSIN Emergency Response Notification System

VERSION DATE: 10/28/18

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSIN Facility Registry System

VERSION DATE: 10/09/18

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR05 Hazardous Materials Incident Reporting System

VERSION DATE: 09/30/18

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 03/09/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

NPDESR05 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 5. This region includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

PADS PCB Activity Database System

VERSION DATE: 09/14/18

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR05 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 5. This region includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 02/22/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 08/13/18

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SSTS Section Seven Tracking System

VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/16

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

RCRAGR05 Resource Conservation & Recovery Act - Generator

VERSION DATE: 12/17/18

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers

to facilities currently generating hazardous waste. EPA Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

RCRANGR05 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 12/17/18

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 03/01/19

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 03/09/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 03/15/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 03/31/19

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 02/06/19

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 12/17/18

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 12/17/18

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 03/11/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 03/11/19

The U.S. Environmental Protection Agency’s (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 03/19/19

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type,

and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 12/17/18

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 02/06/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 02/06/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 12/17/18

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems

that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 12/17/18

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS Record of Decision System

VERSION DATE: 02/06/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

CLEANCDL IDEM Cleaned Clandestine Drug Labs

VERSION DATE: 12/11/18

This list of certified cleaned meth lab locations is provided by the Indiana Department of Environmental Management.

ICEC Institutional Engineering Controls Registry

VERSION DATE: 11/05/18

This registry is provided by the Indiana's Department of Environmental Management (IDEM) Office of Land Quality. According to the IDEM, this office utilizes a system of risk-based closure to address releases of hazardous substances or petroleum. When contamination remains on site, a legal or administrative measure called an Institutional Control (IC) may be needed. An IC protects human health and the environment by restricting property activity, use, or access to minimize exposure to contamination. The registry contains remediation program sites from the Leaking Underground Storage Tanks Program, Voluntary Remediation Program, State Cleanup Program, RCRA Corrective Action, Federal Programs, and the Indiana Brownfields Program (administered by the Indiana Finance Authority), as well as solid waste sites subject to 329 IAC 10 deed notice requirements.

SPCDL State Police Drug Lab Locations

VERSION DATE: 03/27/19

This list of clandestine drug labs is provided by the Indiana State Police (ISP). The ISP has been tracking seized locations since 2007.

SPILLS Spills Listing

VERSION DATE: 10/31/18

This listing of reported spills is maintained by the Emergency Response Section of the Indiana Department of Environmental Management (IDEM). The primary role of the Emergency Response Section is to expedite spill response actions from persons experiencing spills to soil and water.

TIERII Tier II Facilities

VERSION DATE: 12/31/17

This database contains a list of Tier II facilities that have reported to the Indiana Department of Environmental Management (IDEM). Requirements of Tier II facilities are determined based on the Emergency Planning and Community Right to Know Act (EPCRA).

ININDWASTE Industrial Waste Sites

VERSION DATE: 08/04/13

Environmental Records Definitions - STATE (IN)

The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

OISC Office of Indiana State Chemist Database

VERSION DATE: 10/30/18

This list of Pesticide/Fertilizer Applicators and Restricted Use Pesticide (RUP) Dealers is maintained by Office of Indiana State Chemist at Purdue University. RUP Dealer Registration is required of any firm that sells or offers to sell RUP to end users (certified applicators) of those pesticides. A RUP dealer registration is NOT required if the location is used solely to store pesticides.

RUST Registered Underground Storage Tanks

VERSION DATE: 12/01/18

Indiana's Department of Environmental Management (IDEM) Office of Land Quality maintains this of underground storage tanks.

BF Brownfield Sites

VERSION DATE: 01/09/19

The Indiana Finance Authority (IFA) provides this list of brownfield program sites. According to the IFA, the list is not an inventory of all brownfield sites in Indiana, but rather those sites at which the Indiana Brownfields Program has considered or provided financial, legal or technical assistance. In addition, this list serves as the Program's public record of any institutional controls (e.g., environmental restrictive covenants) required at Program sites.

CAFO Confined Animal Feeding Operation Permits

VERSION DATE: 02/25/15

This dataset, provided by the Indiana Department of Environmental Management (IDEM), consists of Confined Feeding Operations and Concentrated Animal Feeding Operations with a size designation of animals that IDEM regulates for environmental concerns, as required by Indiana Code 13-18-10.

INOPENDUMP Open Dump Waste Sites

VERSION DATE: 04/16/10

Open Dumps are sites that are not regulated and are illegal dump sites of solid waste. This listing is maintained by the Indiana Department of Environmental Management.

LF Landfill Sites

VERSION DATE: 02/14/19

This database, provided to the Indiana Geological Survey (IGS) from the Indiana Department of Environmental Management (IDEM), Office of Land Quality, consists of landfill sites. The landfill data includes boundaries for open dump sites, approved landfills, and permitted landfills as of April 2015. Disclaimer: this dataset is not complete, but comprises the waste boundaries of landfills as a work in progress. IDEM will periodically update and add new boundaries. The closure date for these landfills runs from the late 1960's to today. Most of them are closed, but a number of them are still active today.

LUST Leaking Underground Storage Tanks

VERSION DATE: 01/01/19

Indiana's Department of Environmental Management (IDEM) Office of Land Quality maintains this of leaking underground storage tanks. The report lists a priority and a disposition for each site. IDEM assigns a priority to each site to ensure that the ones with the greatest chance of impacting people are cleaned up first. The priority is based on information submitted by the responsible party and/or their consultant.

SCP State Cleanup Sites

VERSION DATE: 06/28/18

This database contains State Cleanup Program site locations in Indiana. The data is provided by the Indiana Department of Environmental Management (IDEM), and also includes 2015 data from the Indiana Geological Survey (IGS). These sites are on the Commissioner's Bulletin or referred remedial response location or other IDEM programs that require mitigation of risk of human health and the environmental through investigation, remediation or institutional controls. According to the IDEM, the State Cleanup Section was modeled after the federal Superfund Program; however, the State Cleanup Section differs from the Superfund Program in some respects. The State Cleanup Section has jurisdiction over remediation of petroleum releases in addition to remediation of releases of hazardous substances. IGS provides the data "as is", without warranty.

SWF Solid Waste Facilities

VERSION DATE: 08/20/18

The Indiana Department of Environmental Management maintains this list of facilities with solid waste permits.

TIRE Waste Tire Sites

VERSION DATE: 08/20/18

This is a state wide listing of waste tire facilities provided Indiana Department of Environmental Management.

VCP Voluntary Cleanup Sites

VERSION DATE: 10/19/18

This database contains Voluntary Remediation Program site locations in Indiana. The data is provided by the

Indiana Department of Environmental Management (IDEM), and also includes 2015 data from the Indiana Geological Survey (IGS). According to the IDEM, this program encourages environmental cleanups; facilitates the redevelopment, sale, and reuse of commercial and industrial properties; and reduces the risks that contaminants pose to human health and the environment. The VRP provides a process for property owners, operators, potential purchasers, and third parties to voluntarily address property that is or may be contaminated. Participants are typically current or past property owners, current or past lessees, and prospective purchasers. Local units of government with property obtained by default or with an interest in property development may also participate. IGS data is provided “as is”, without warranty.

WDS Waste Disposal Sites

VERSION DATE: 10/19/18

This database, provided to the Indiana Geological Survey (IGS) from the Indiana Department of Environmental Management (IDEM), Office of Land Quality, consists of waste disposal sites. The waste disposal sites data, as of June 2013, includes constructions/demolition waste, composting of CFO waste, clean fill, municipal, non-municipal, open dumps, restricted waste, surface impoundments, sanitary landfills, incinerators, material recovery, medical wastes, recycling, and waste transfer sites. IGS provides this data “as is”, without warranty.

SF State Superfund Sites

VERSION DATE: 10/19/18

This database contains Superfund Program Facilities in Indiana. The data is provided by the Indiana Department of Environmental Management (IDEM), and also includes 2015 data from the Indiana Geological Survey (IGS). According to the IDEM, their Office of Land Quality Superfund program works with the U.S. Environmental Protection Agency to clean up sites contaminated with hazardous waste that may require complex investigations, significant cleanup actions, and long-term attention. The program involves a multi-phase process that begins with an assessment to determine if contamination is present that may impact a community. Sites that are determined to be a problem are placed on the National Priorities List. IGS location information and data is provided “as is”, without warranty.

USTR05 Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/12/18

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

LUSTR05 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/12/18

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 5. Region 5 includes the following states: Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Appendix E

Web Soil Survey Map and Unit Description

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Monroe County, Indiana

216 S. College Avenue

April 26, 2019

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map (216 S. College Avenue)

Map Scale: 1:678 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Monroe County, Indiana
Survey Area Data: Version 25, Sep 7, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 25, 2014—Mar 20, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (216 S. College Avenue)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ua	Udorthents, loamy	1.9	100.0%
Totals for Area of Interest		**1.9**	**100.0%**

Map Unit Descriptions (216 S. College Avenue)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Monroe County, Indiana

Ua—Udorthents, loamy

Map Unit Setting

National map unit symbol: kz9d
Elevation: 340 to 1,020 feet
Mean annual precipitation: 40 to 46 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 170 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, loamy and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Loamy

Properties and qualities

Depth to restrictive feature: More than 80 inches
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: Unranked

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Appendix F

Sanborn Fire Insurance Maps

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

GeoSearch

On time. On target. In touch.™

Fire Insurance Map Abstract

Target Property:

Commercial Property

216 S College Ave,
Bloomington, IN 47404

Prepared For:

BCA Environmental-Indianapolis

Order #: 125529
Job #: 290706
Project #: 19-132
Date #: 04/30/19

phone: 888-396-0042 · fax: 512-472-9967 · www.Geo-Search.com

FIRE INSURANCE MAP ABSTRACT RESEARCH RESULTS

Report Date: 04/30/19
Order Number: 125529
Job Number: 290706
Site Address(es): 216 S College Ave,
Bloomington, IN 47404

This abstract is the result of a visual inspection of various Fire Insurance Map collections. Supporting documentation follows in the Appendix to validate our research. Use of this material is meant for research purposes only. Copyrighted Sanborn Maps can be purchased upon request.

Listed below, please find the results of our search for historic fire insurance maps

State	City	Date	Volume	Sheet Number(s)
IN	Bloomington	1963	1	6
IN	Bloomington	1963	1	5
IN	Bloomington	1963	1	4
IN	Bloomington	1963	1	2
IN	Bloomington	1947	1	6
IN	Bloomington	1947	1	5
IN	Bloomington	1947	1	4
IN	Bloomington	1947	1	2
IN	Bloomington	1927	1	6
IN	Bloomington	1927	1	5
IN	Bloomington	1927	1	4
IN	Bloomington	1927	1	2
IN	Bloomington	1913	1	16
IN	Bloomington	1913	1	15
IN	Bloomington	1913	1	11
IN	Bloomington	1913	1	10
IN	Bloomington	1907	1	16
IN	Bloomington	1907	1	15
IN	Bloomington	1907	1	11
IN	Bloomington	1907	1	10
IN	Bloomington	1898	1	9
IN	Bloomington	1898	1	7
IN	Bloomington	1898	1	6
IN	Bloomington	1892	1	5
IN	Bloomington	1892	1	3
IN	Bloomington	1892	1	2
IN	Bloomington	1887	1	3
IN	Bloomington	1887	1	2
IN	Bloomington	1887	1	1

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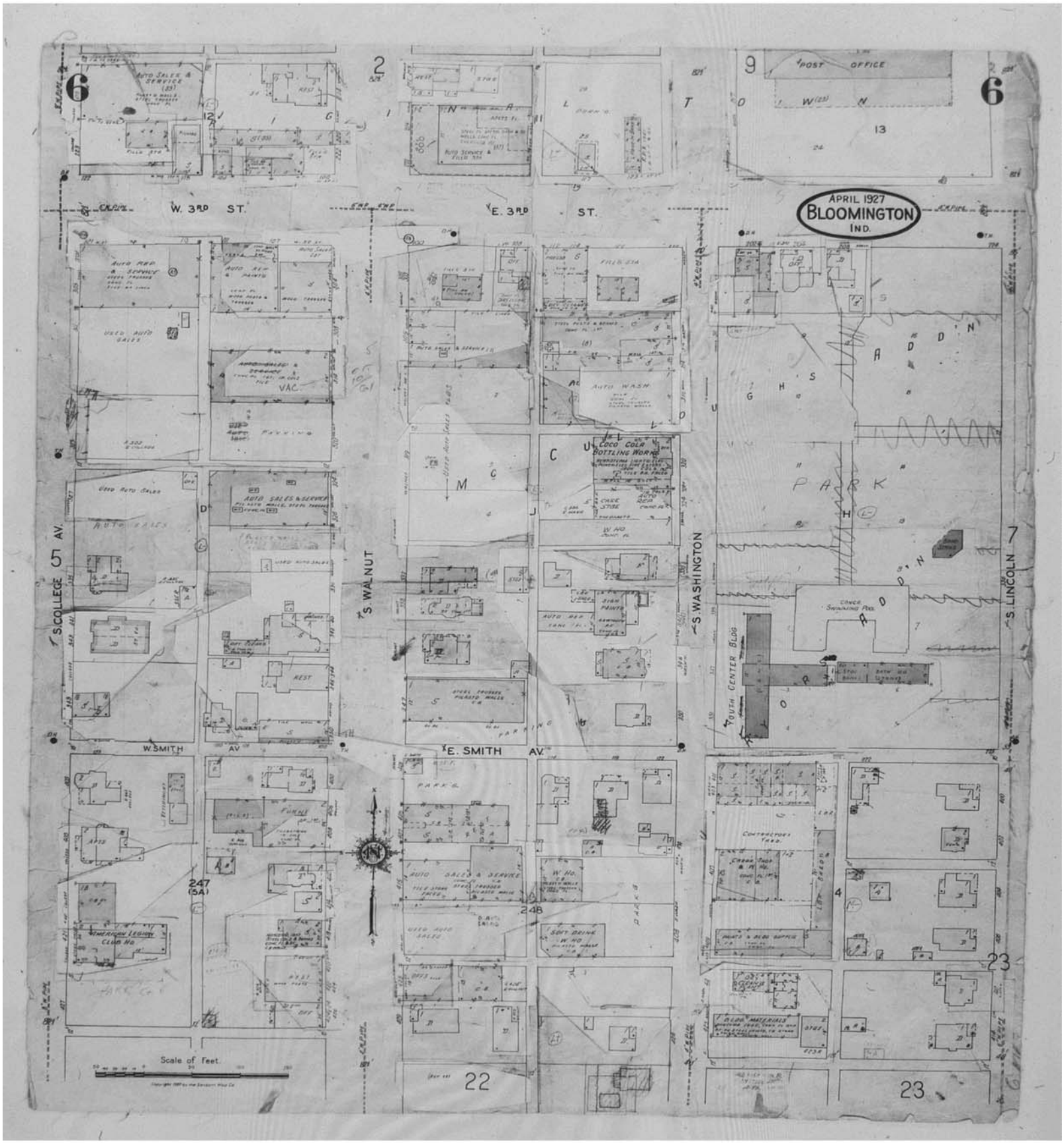
Appendix
Supporting Documentation



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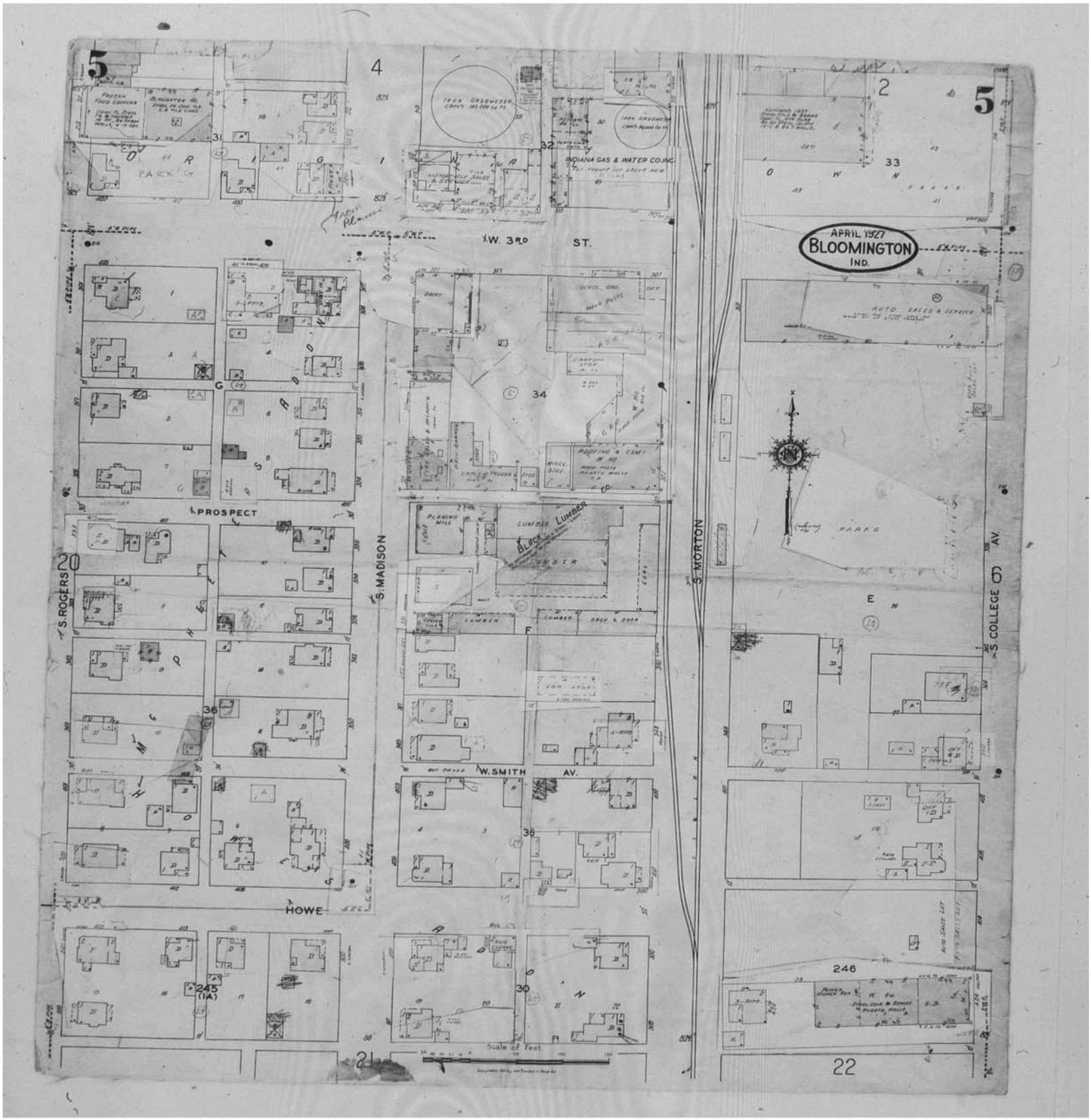

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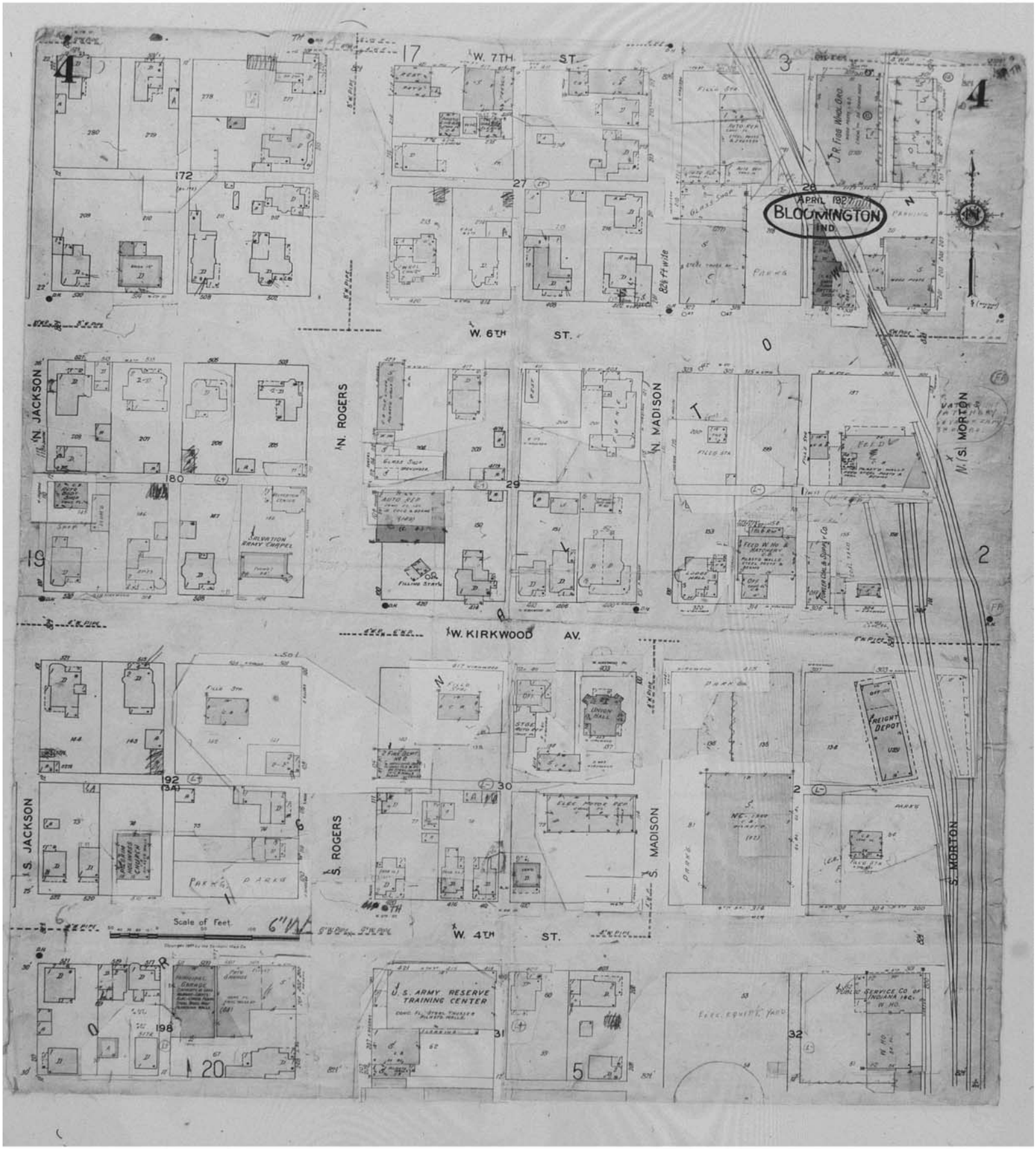

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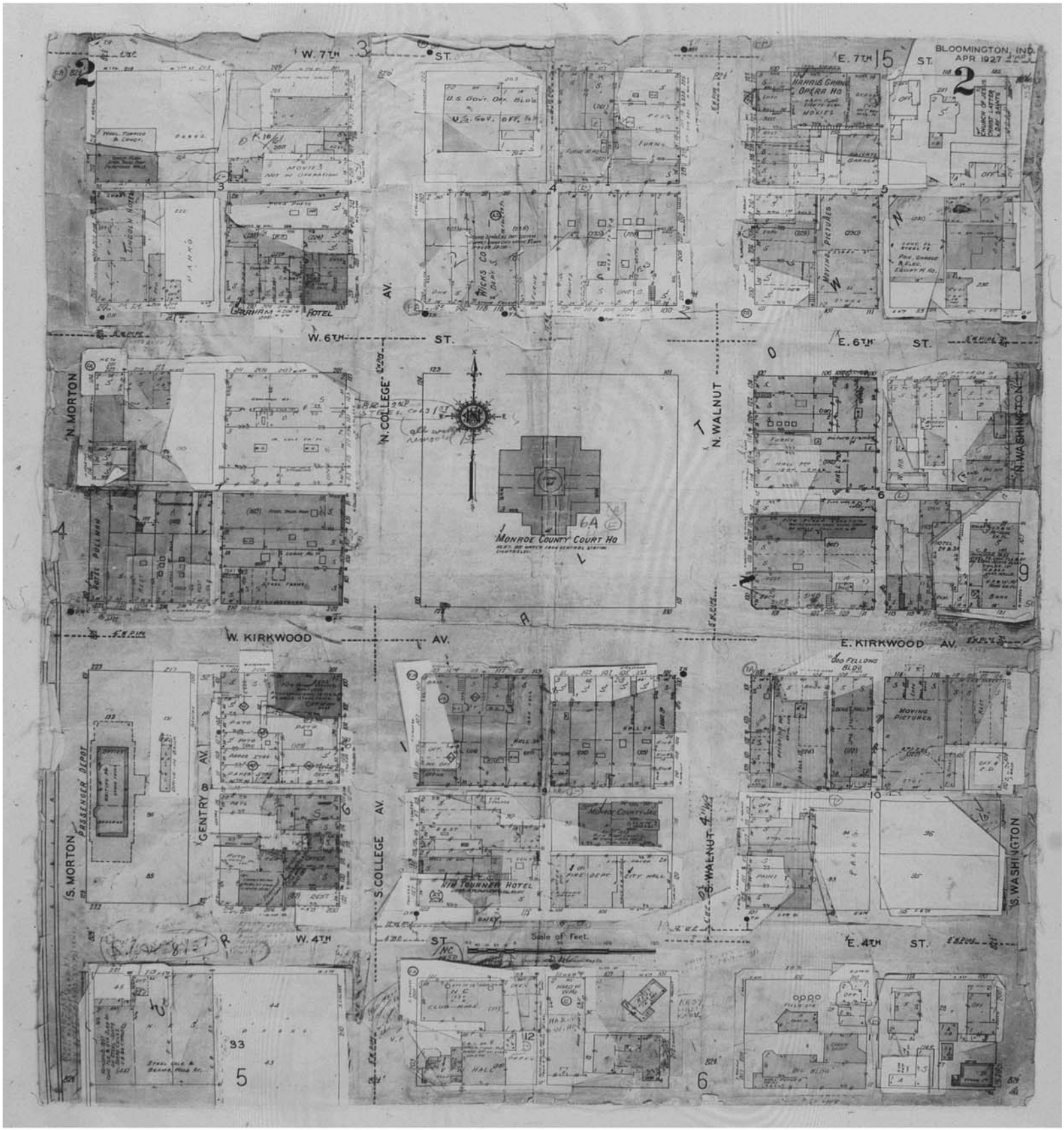

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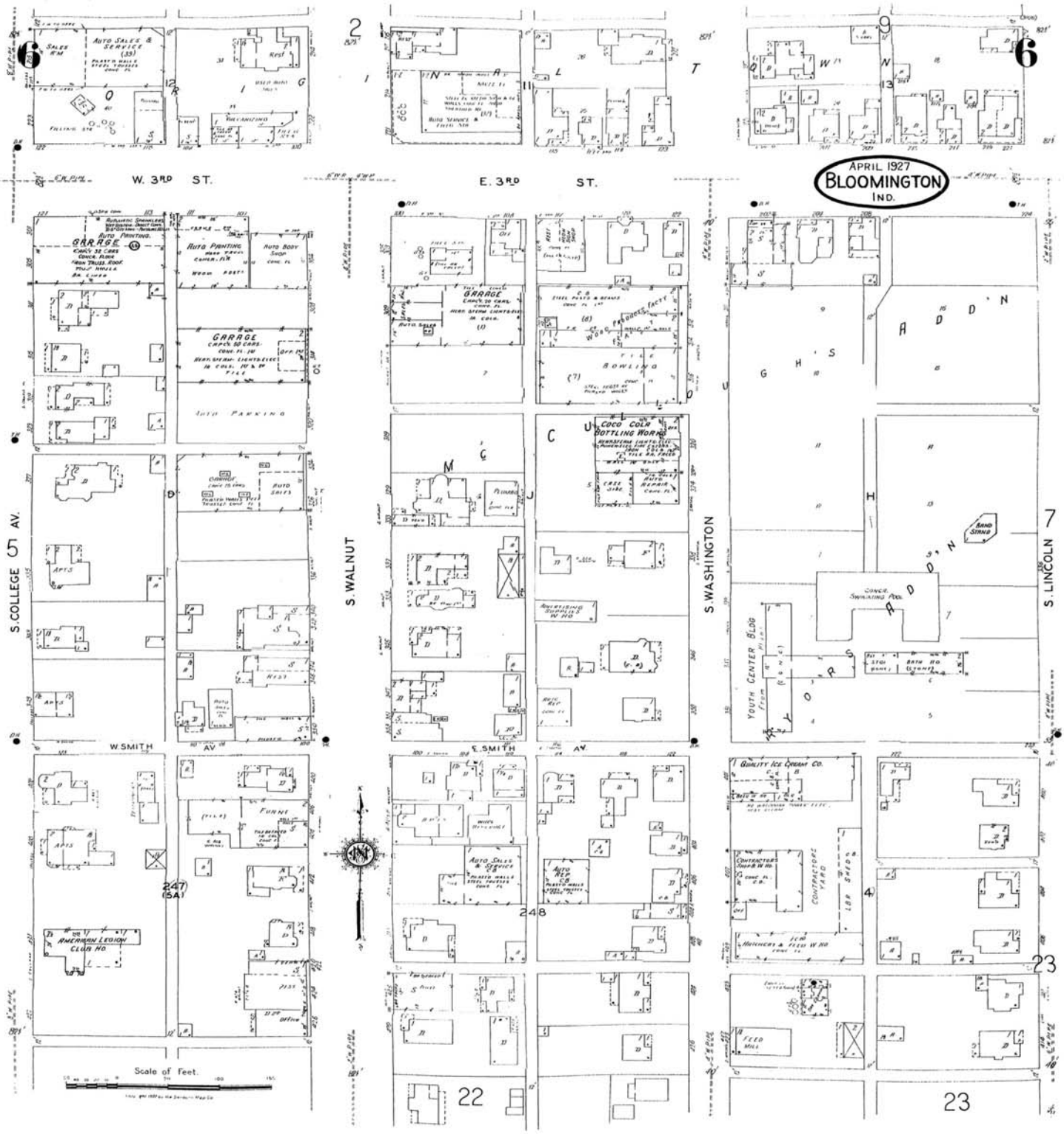

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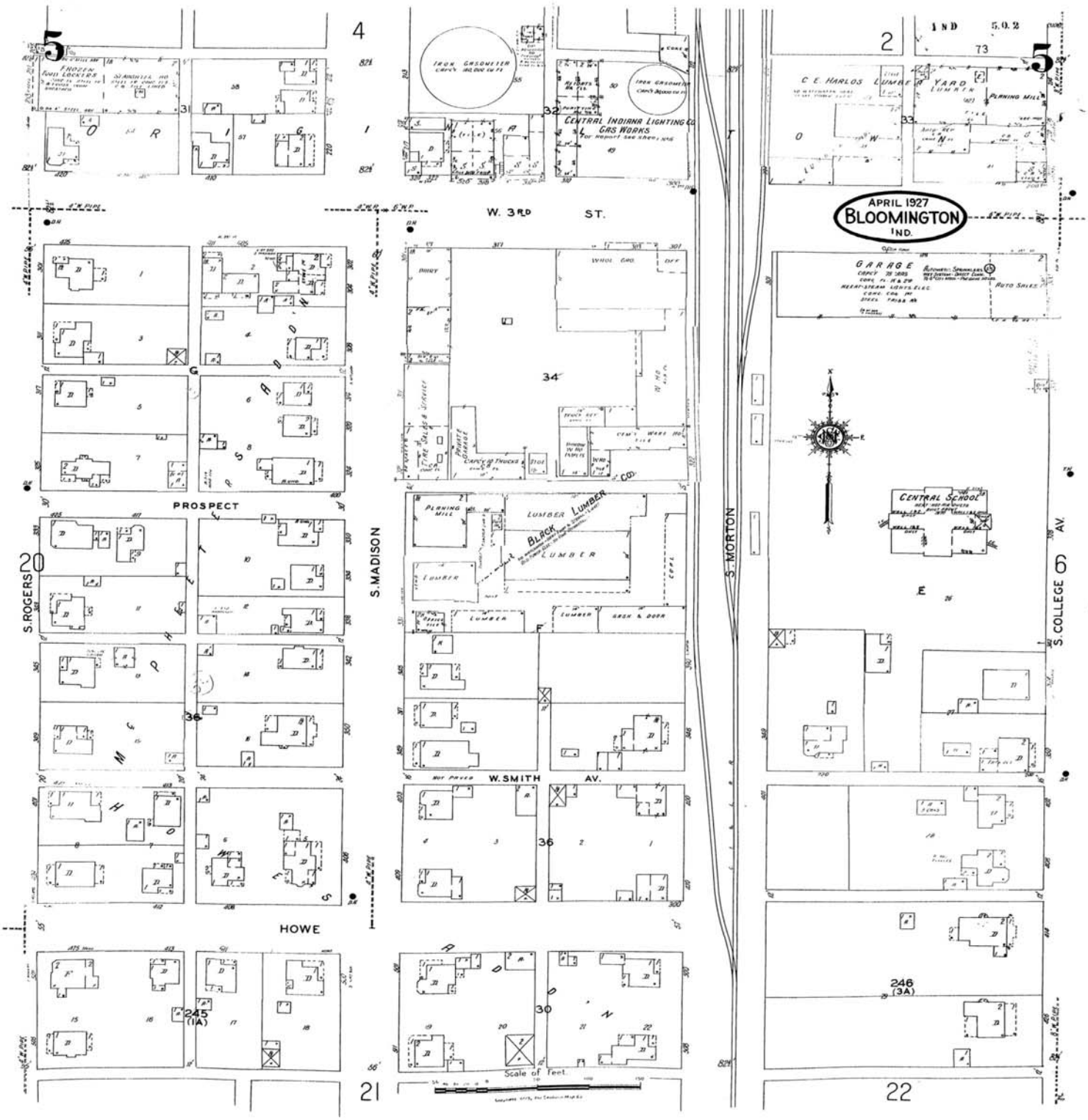

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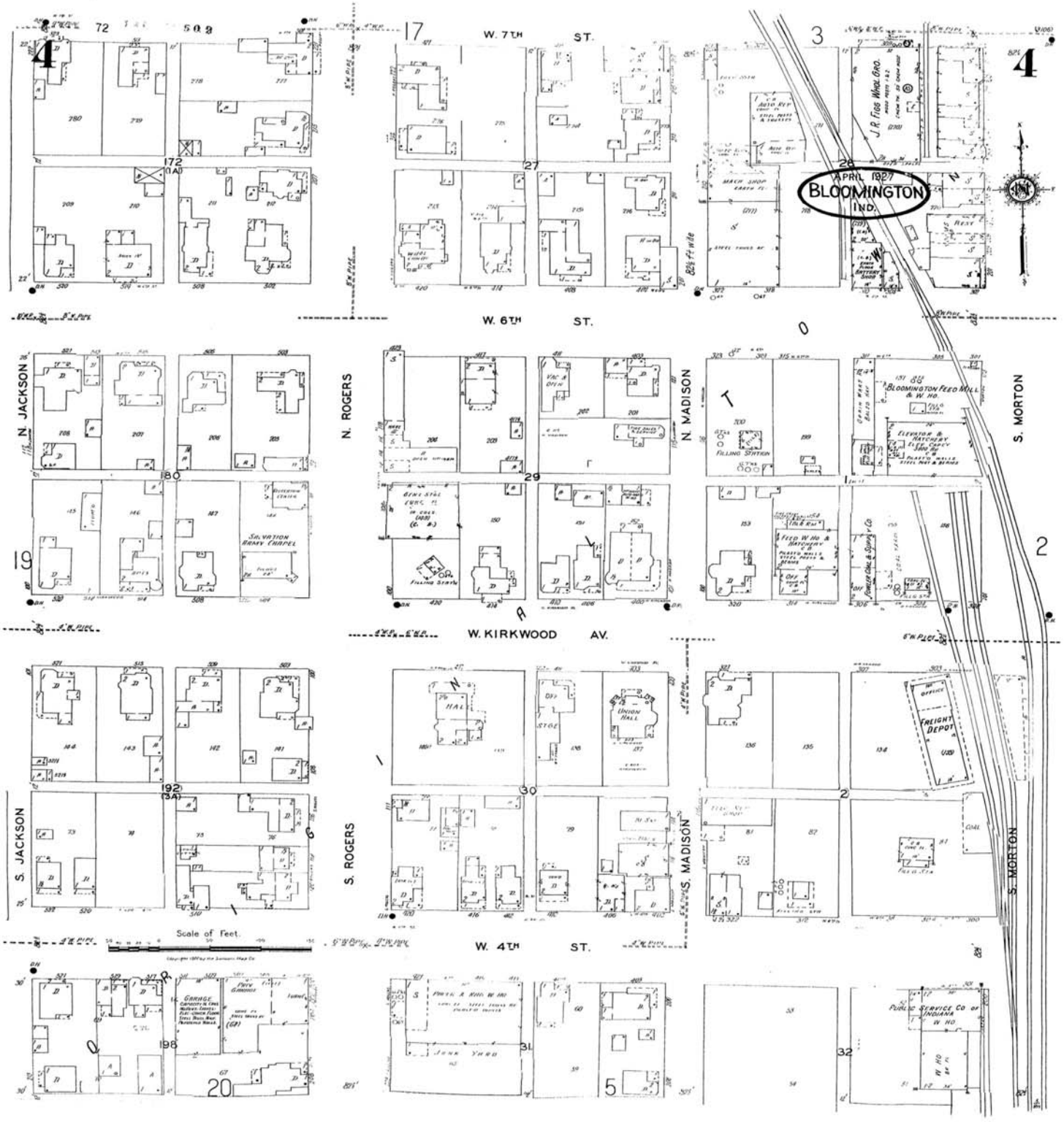

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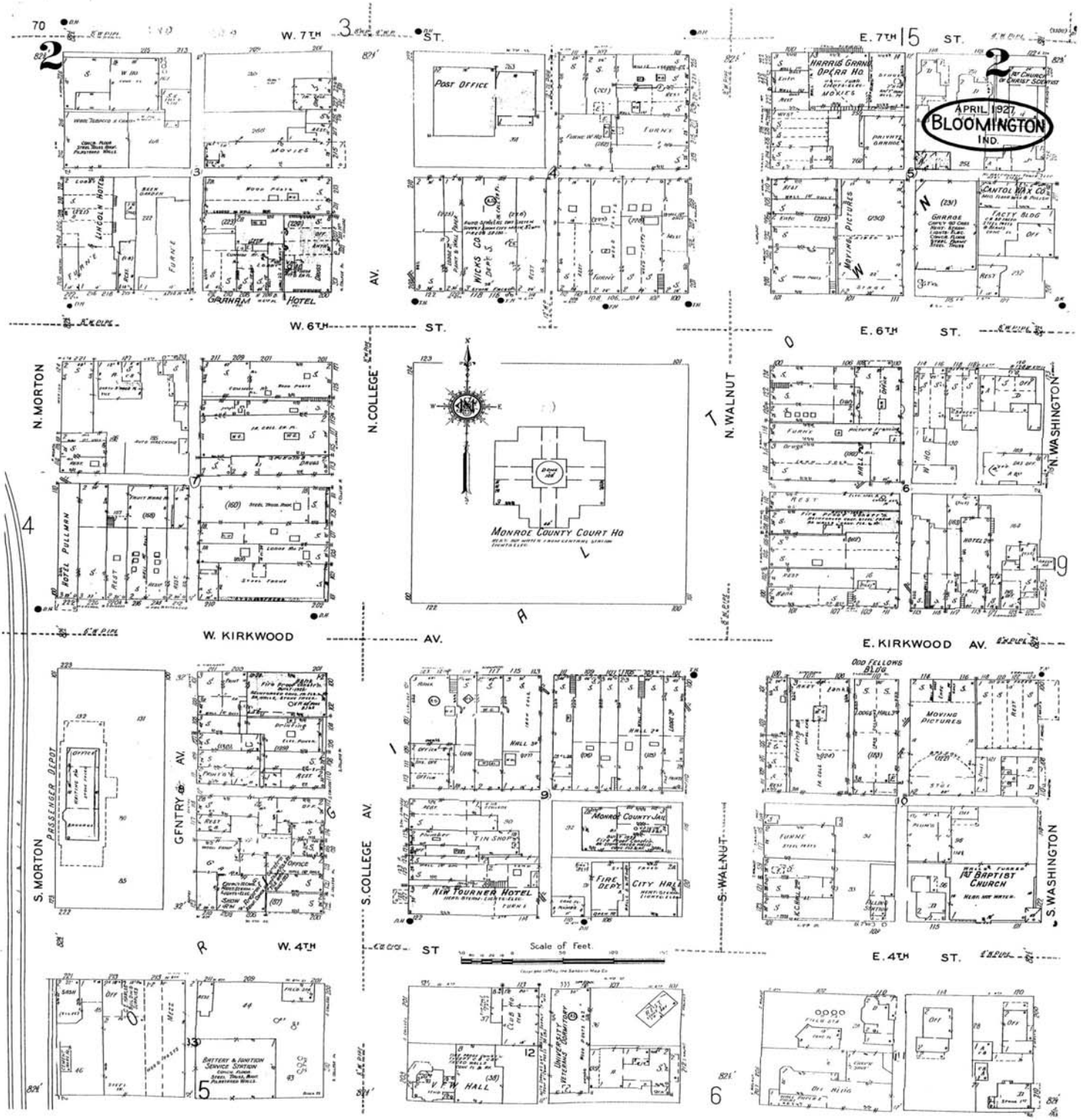

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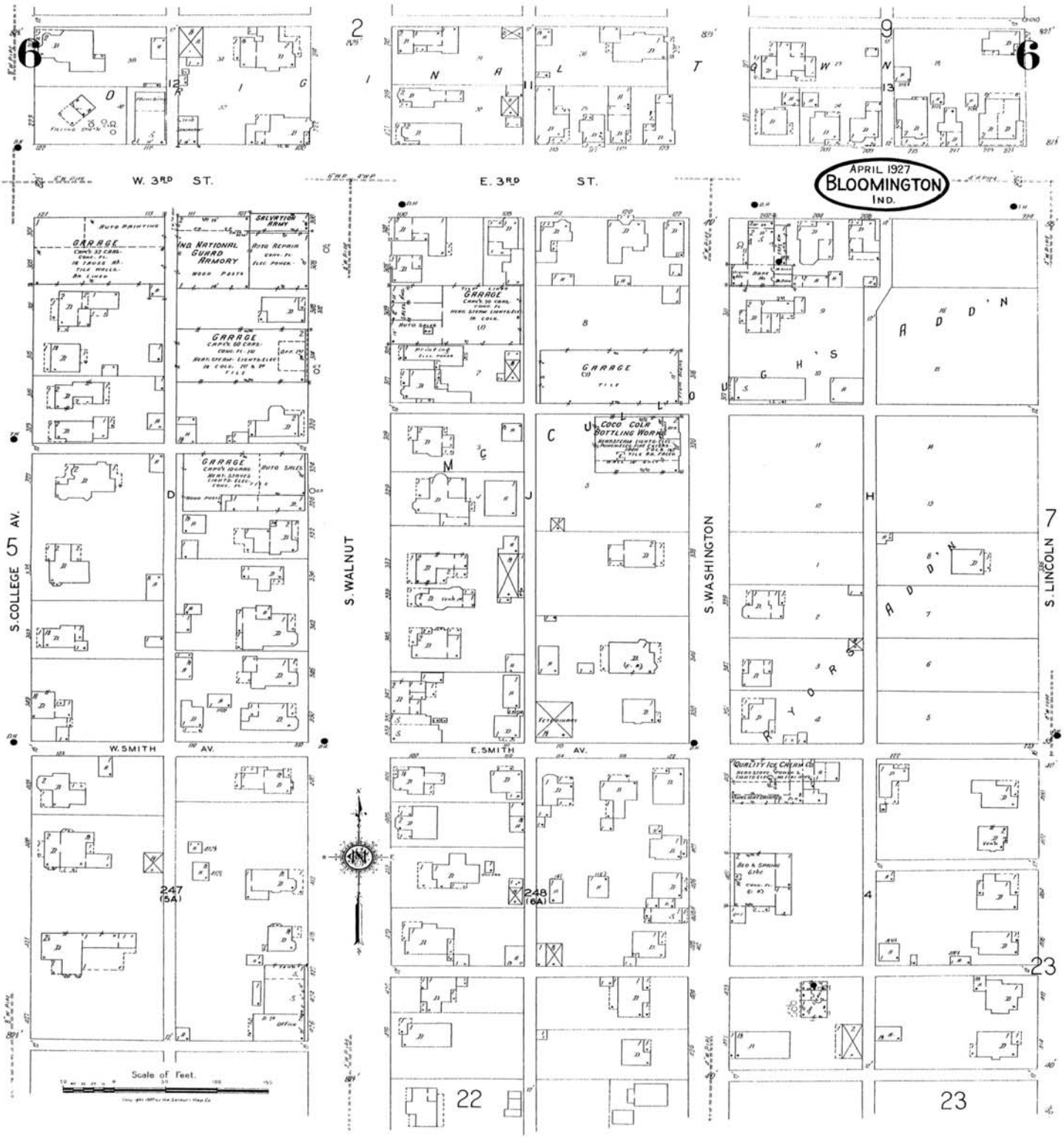

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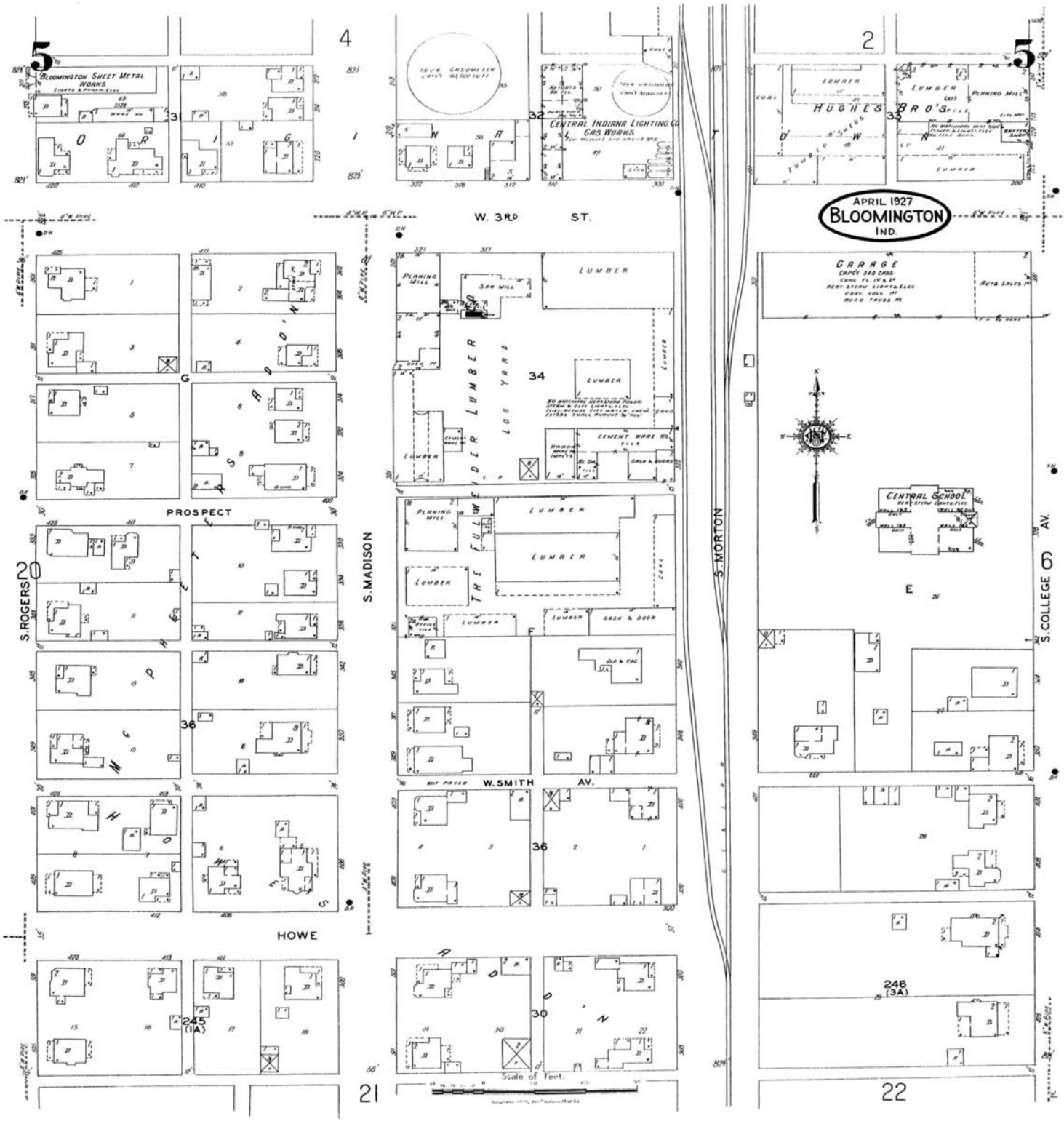

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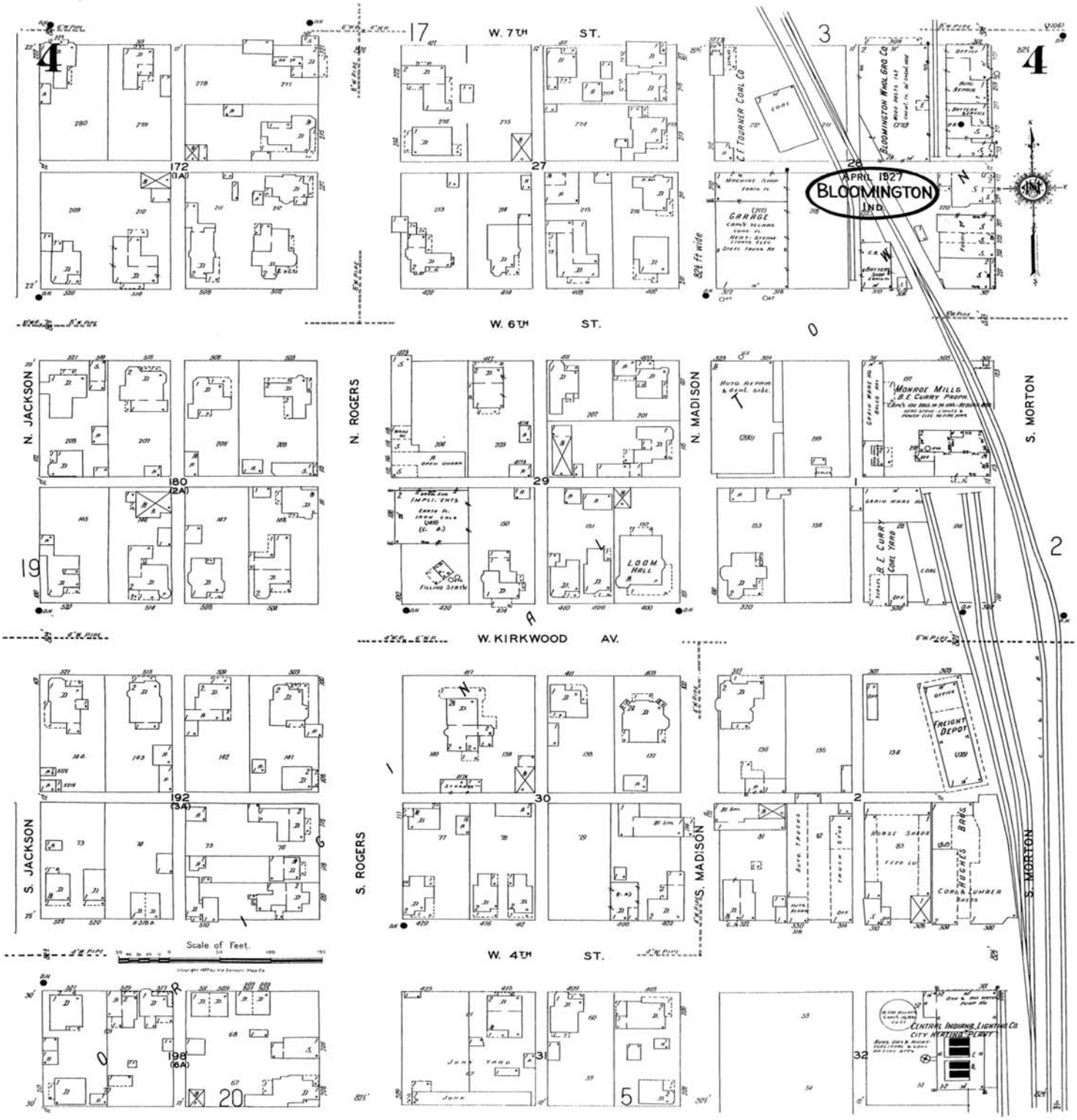

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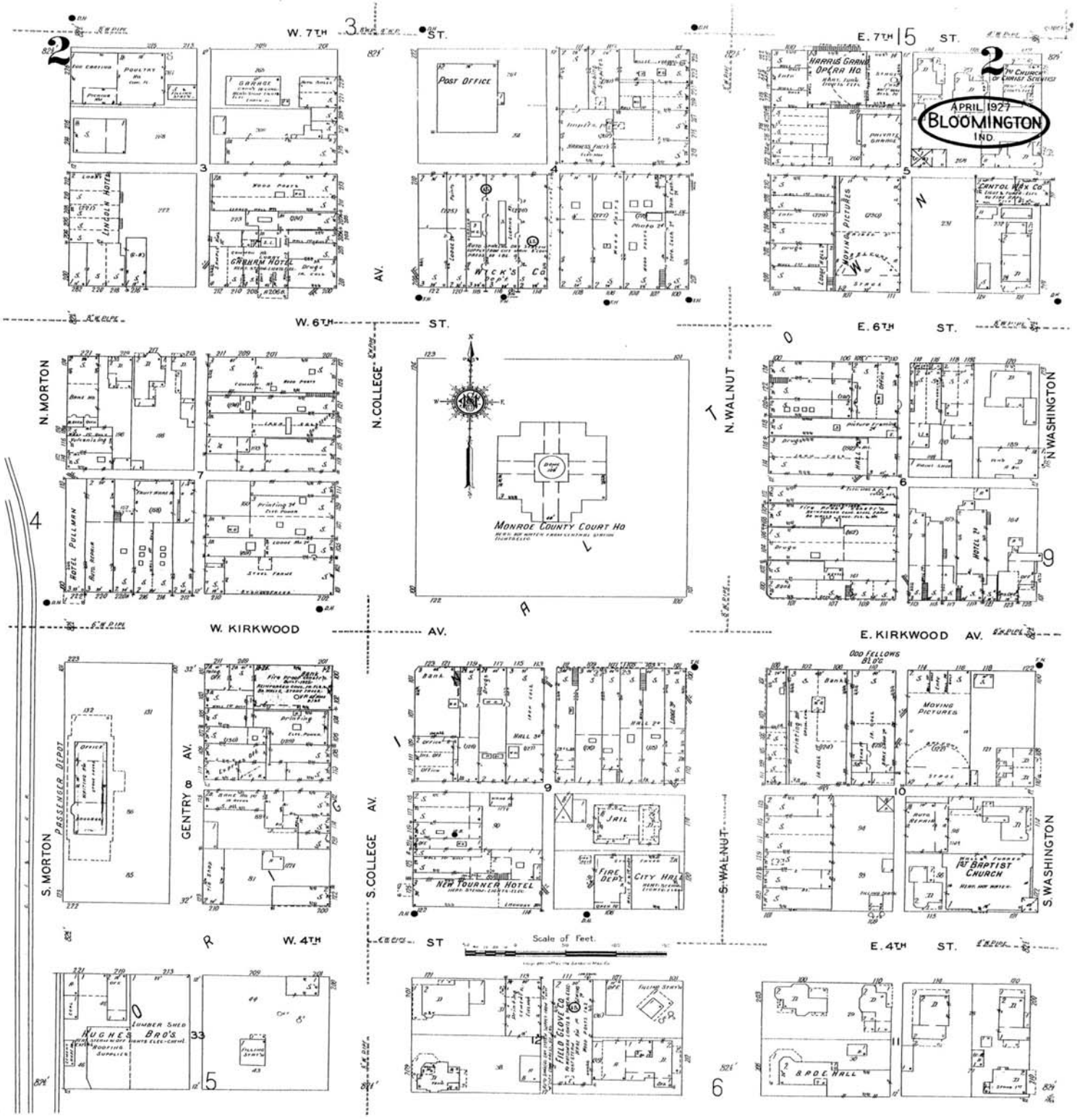

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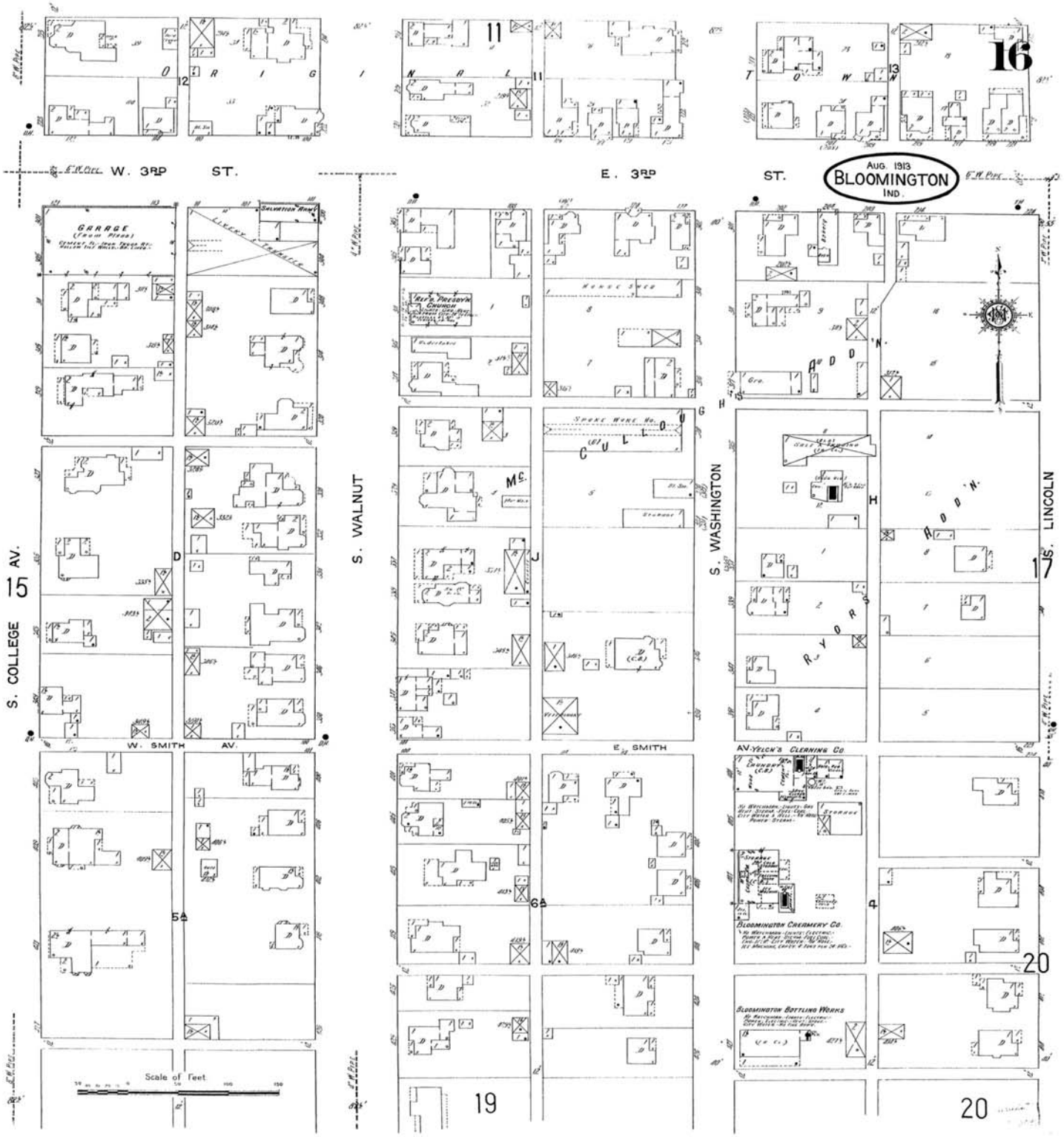

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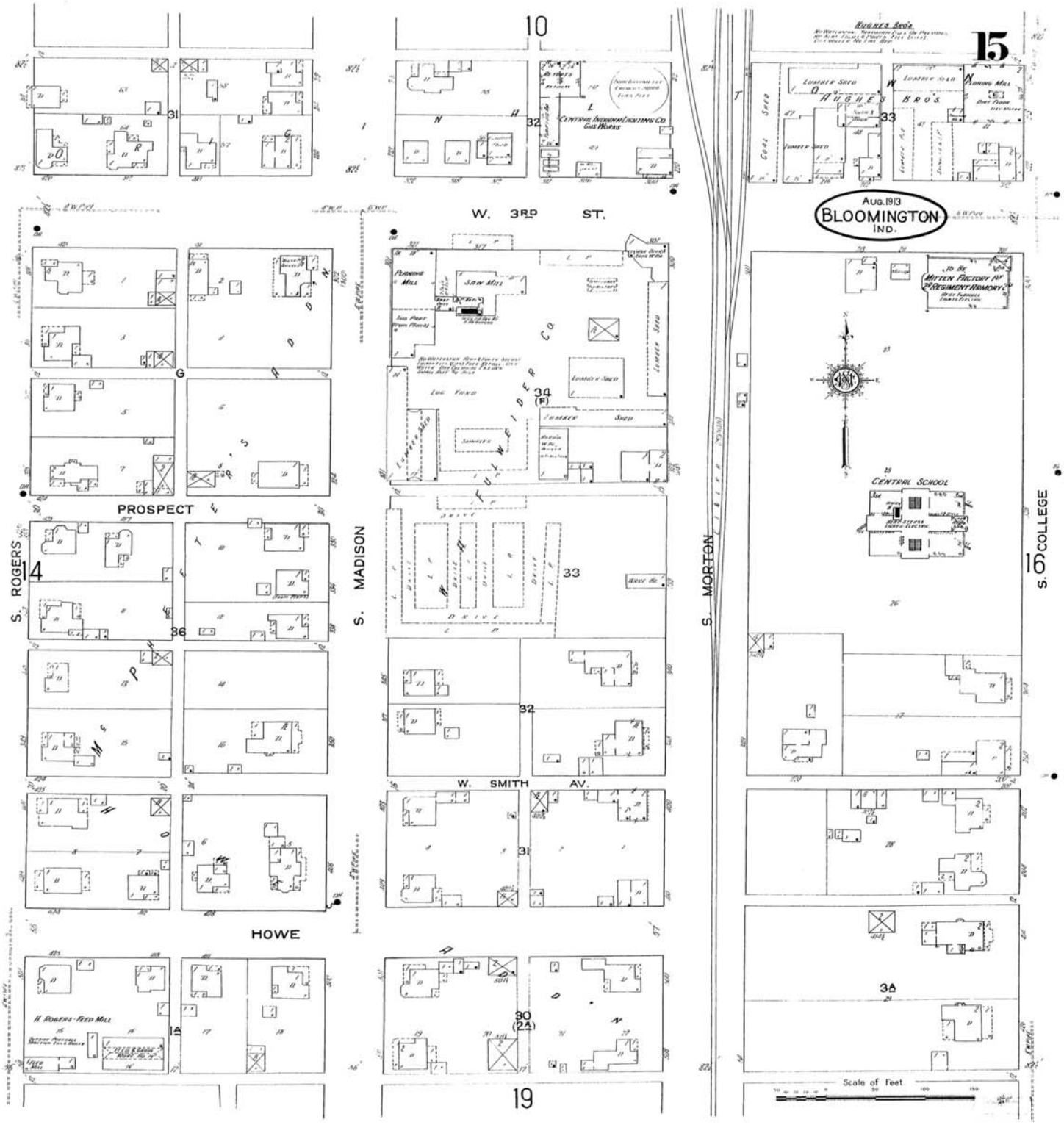

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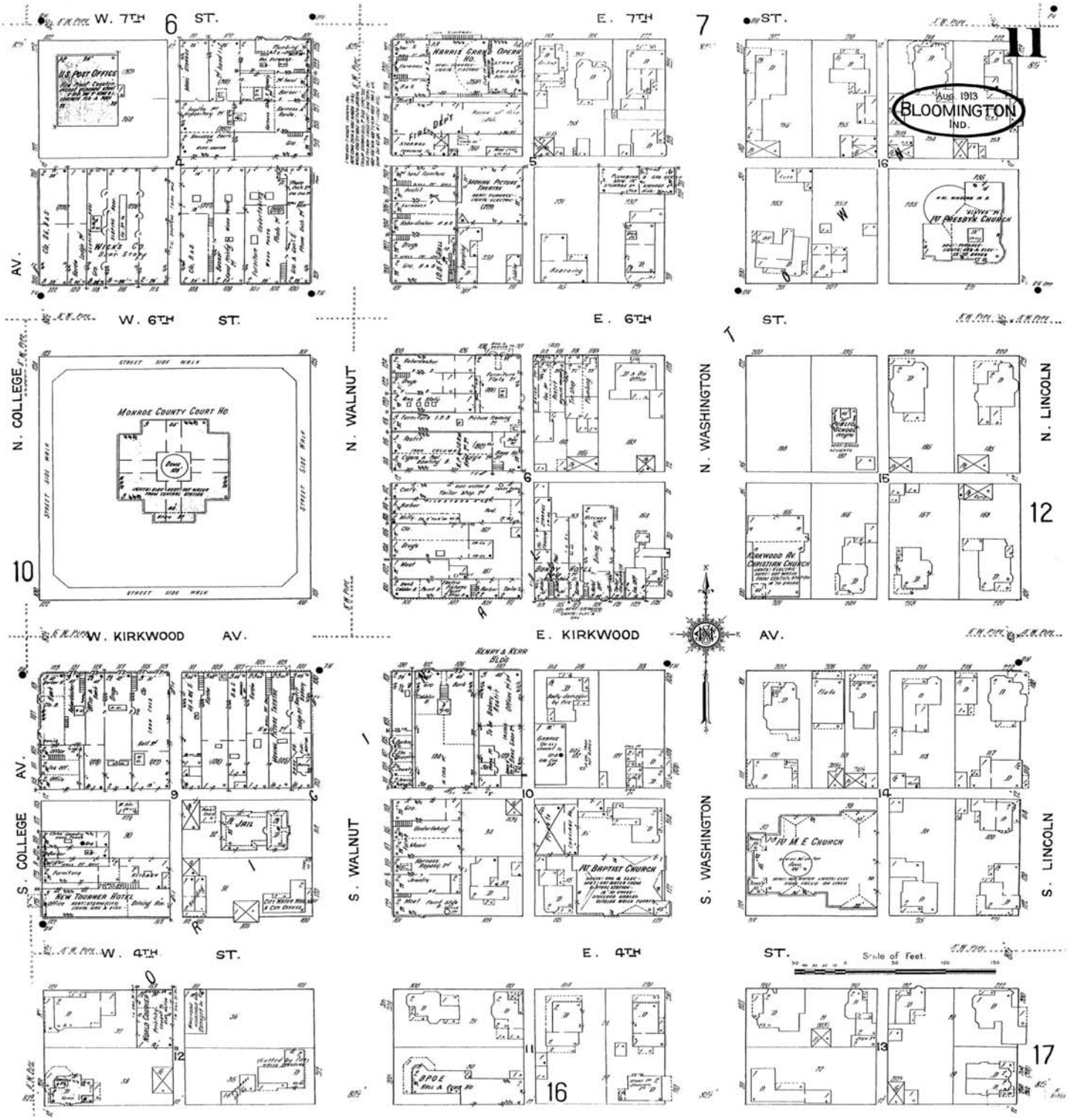

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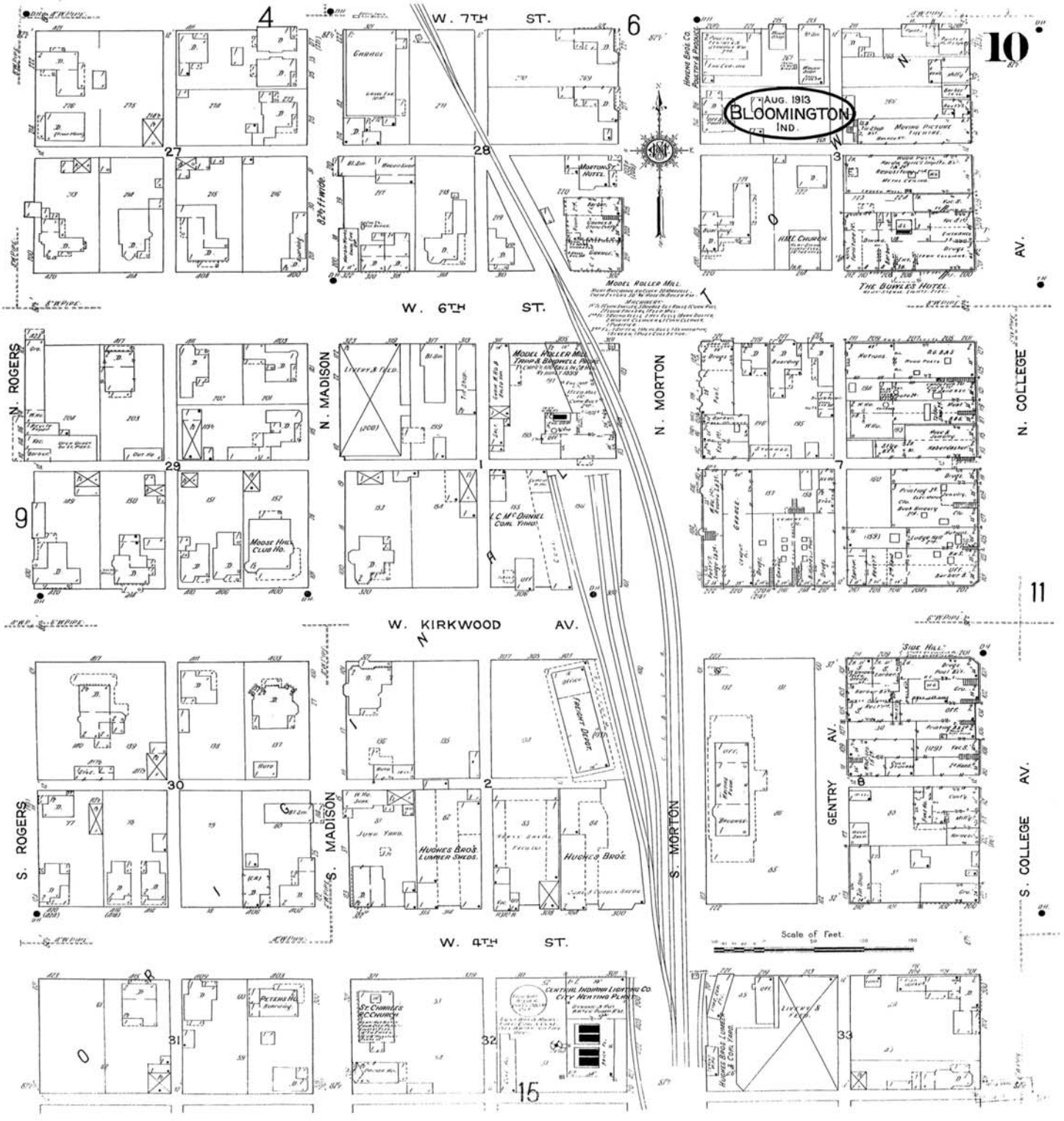

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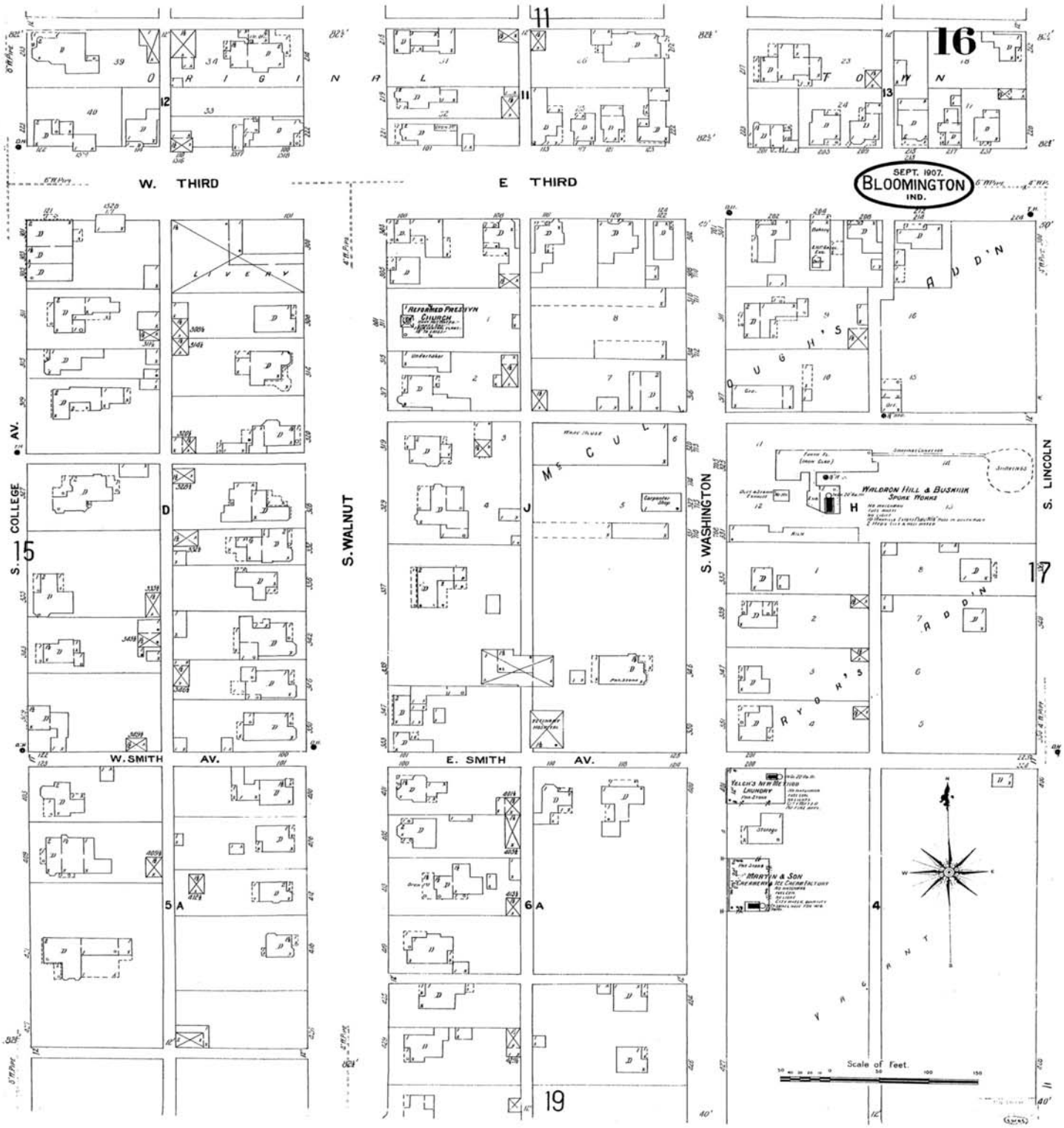

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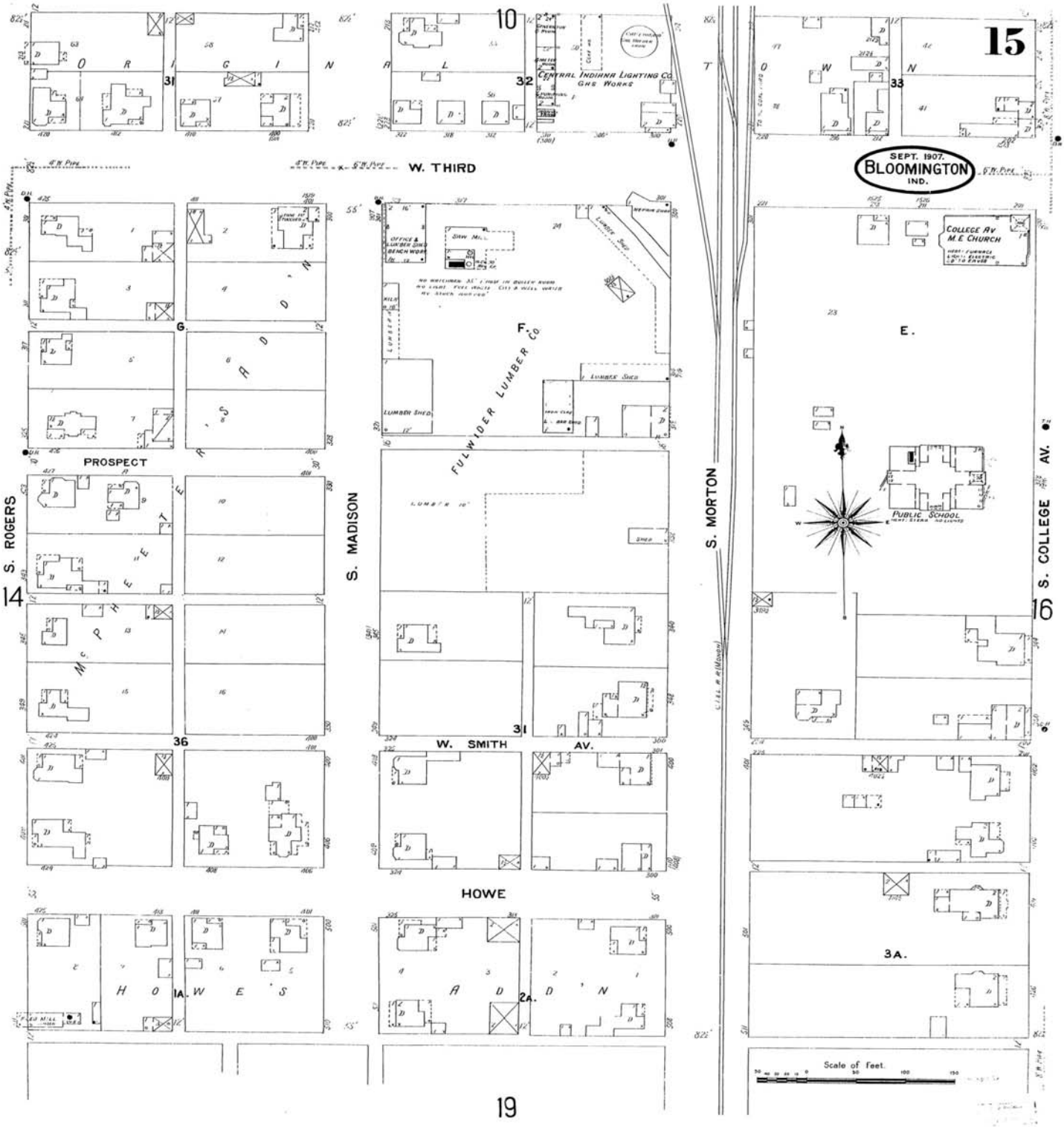
Sheet 16
1907



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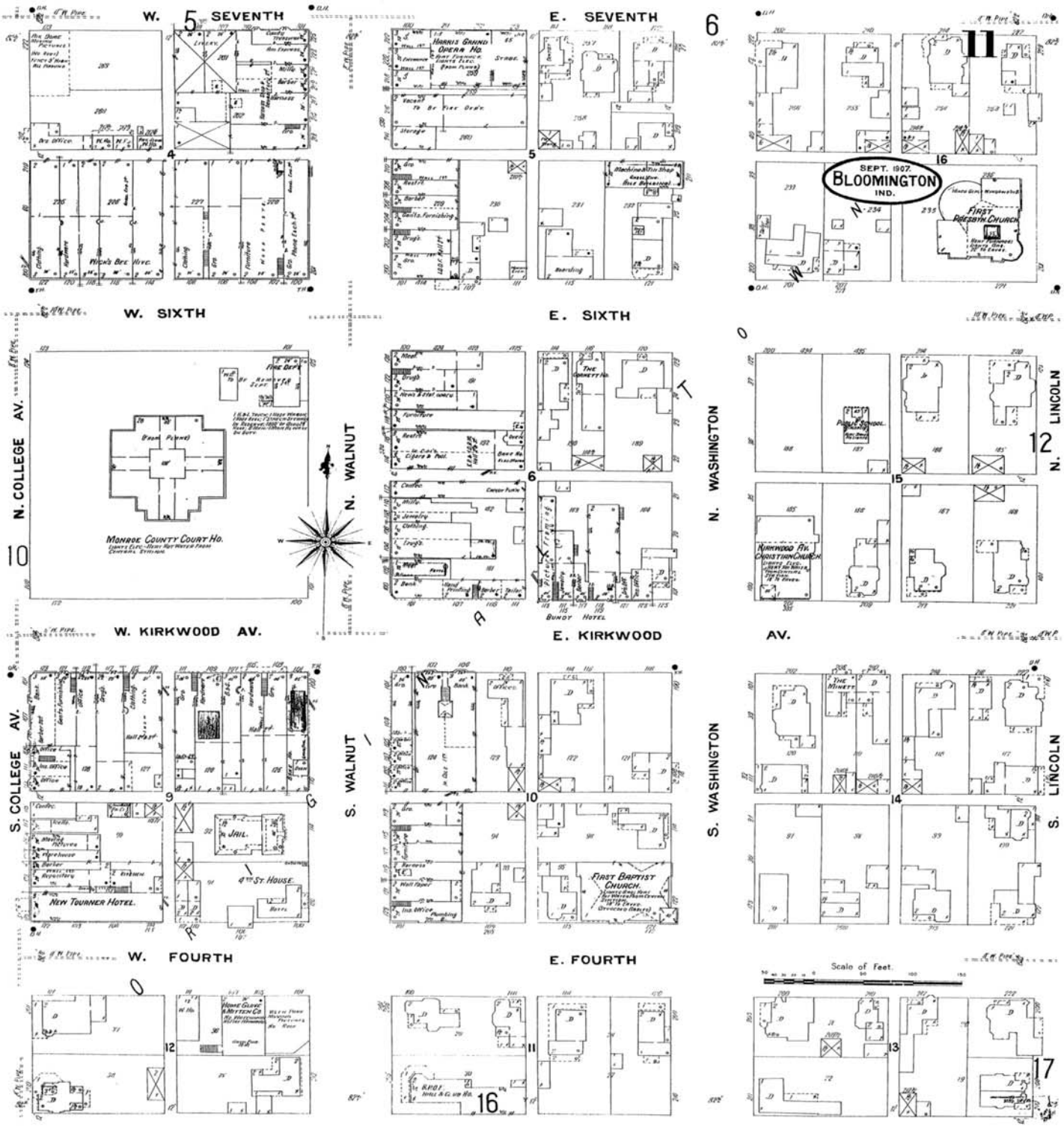
Sheet 15
1907



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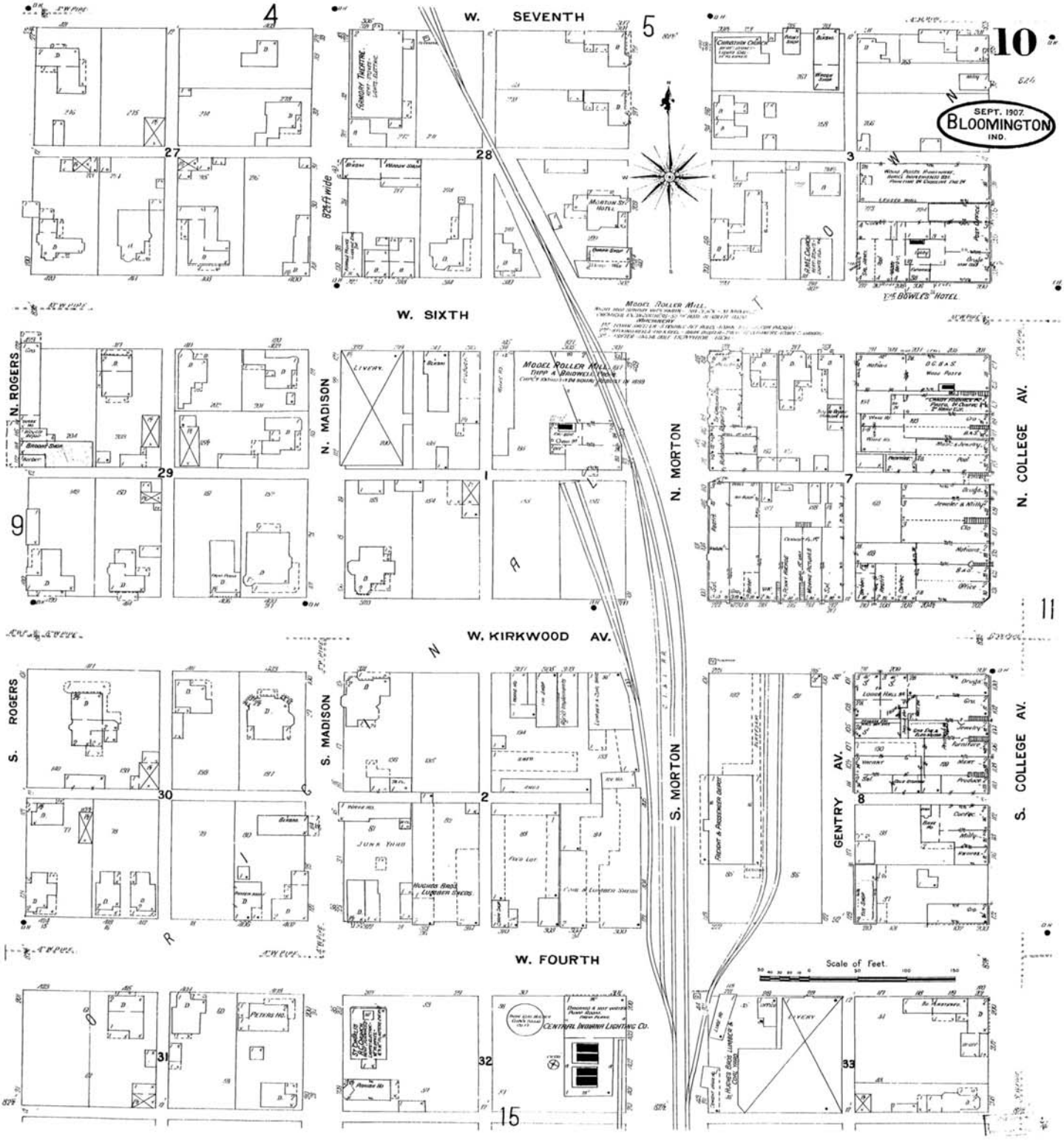
Sheet 11
1907



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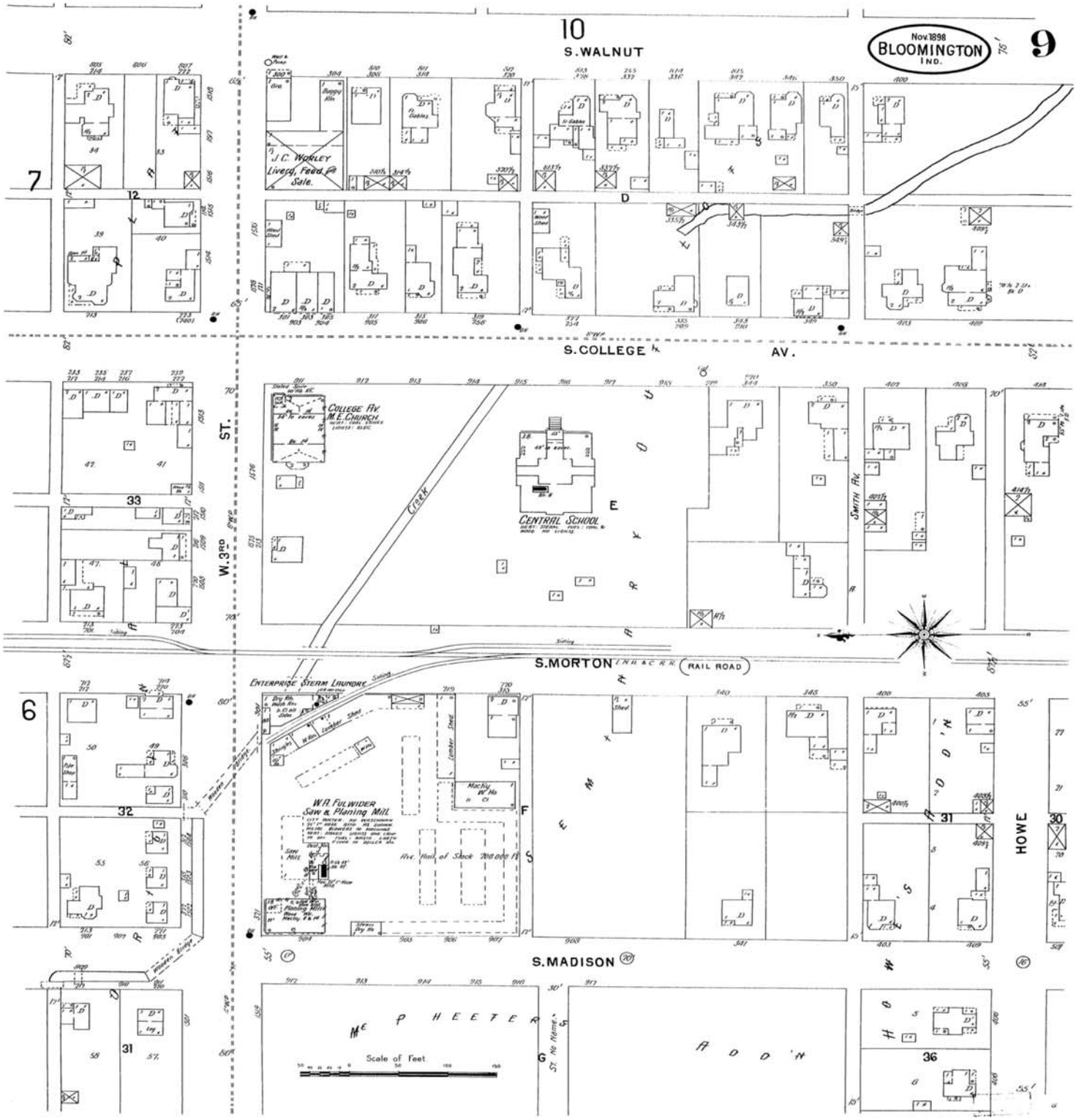
Sheet 10
1907



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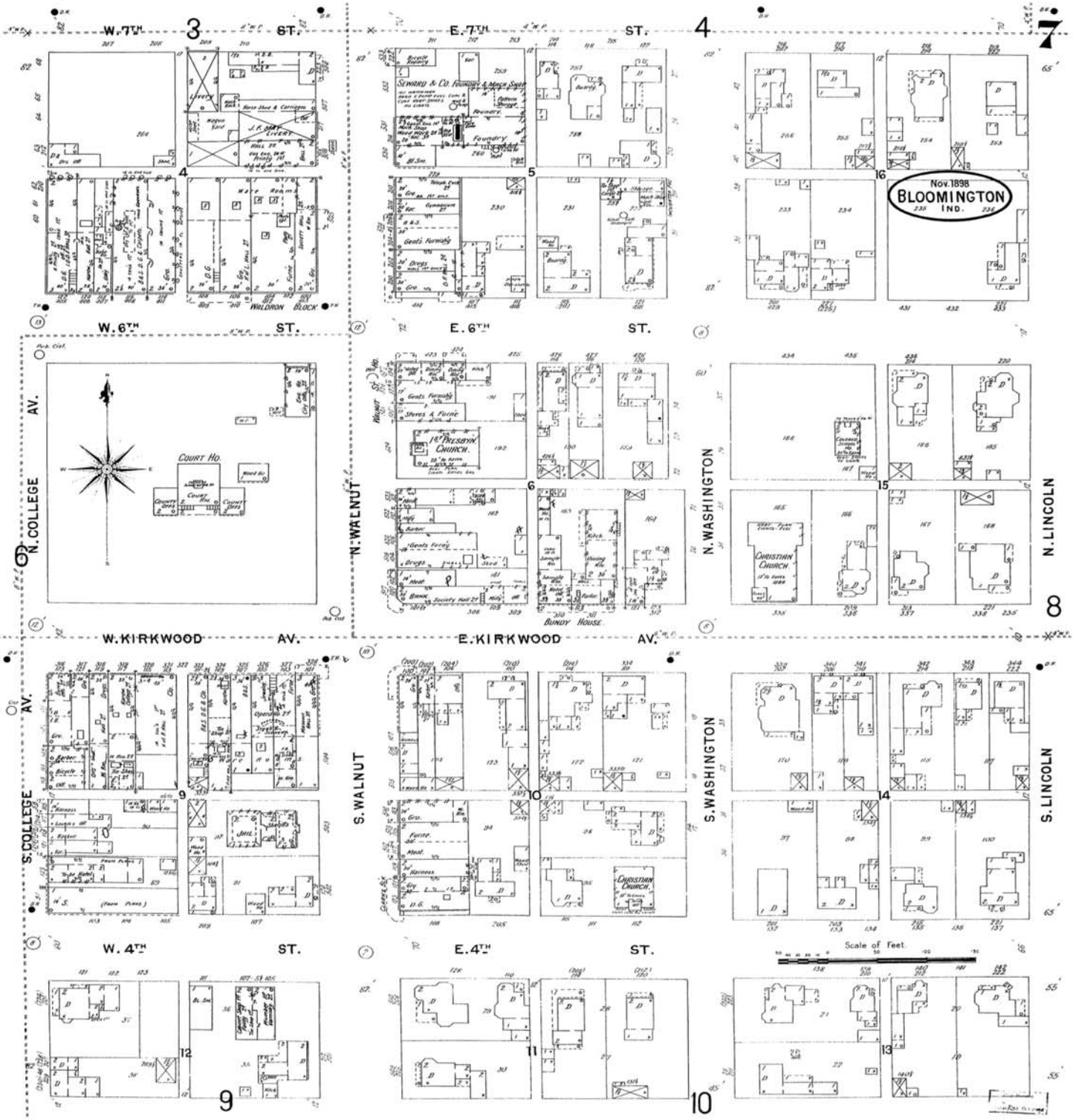
Sheet 9
1898



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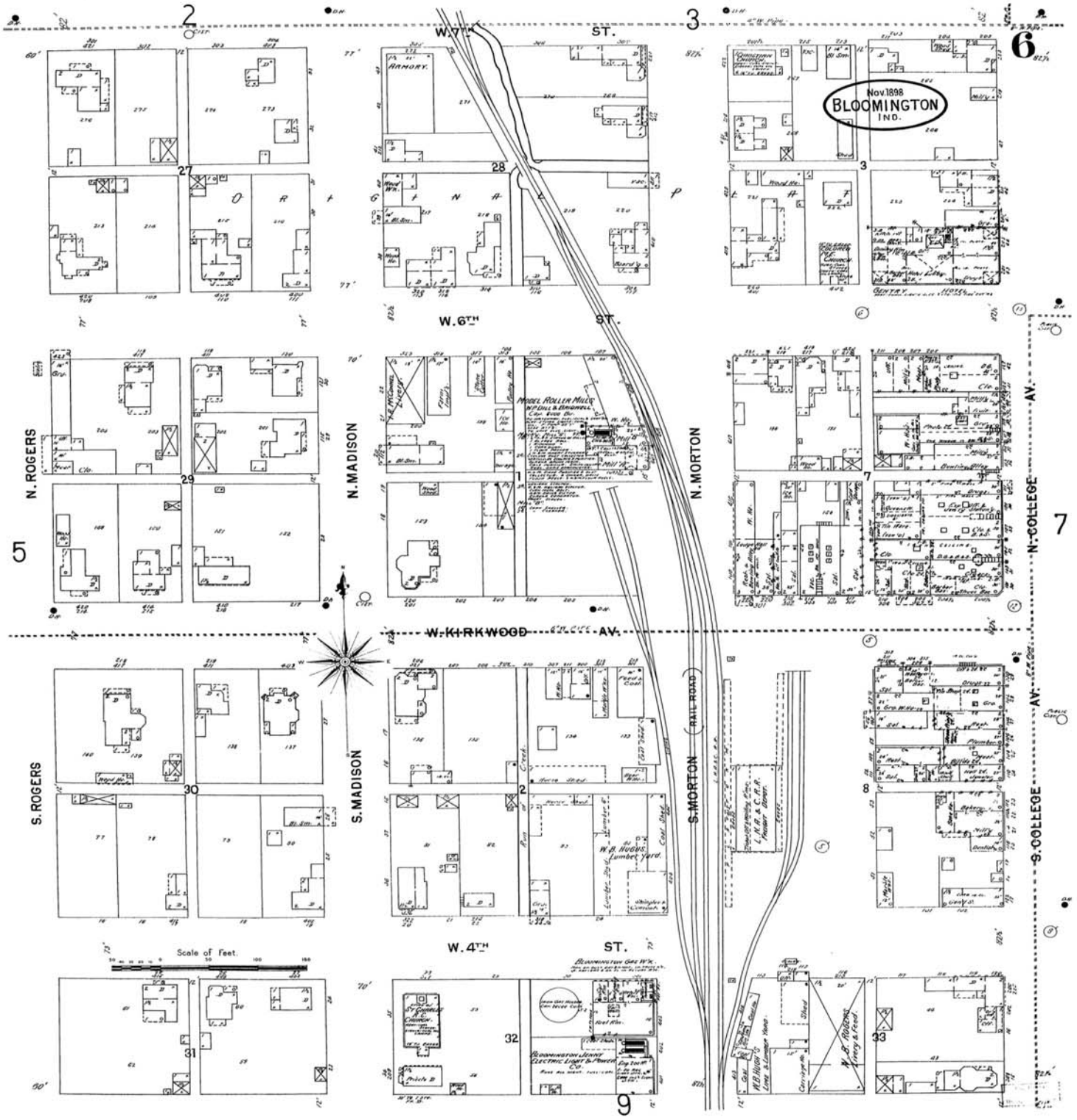
Sheet 7
1898



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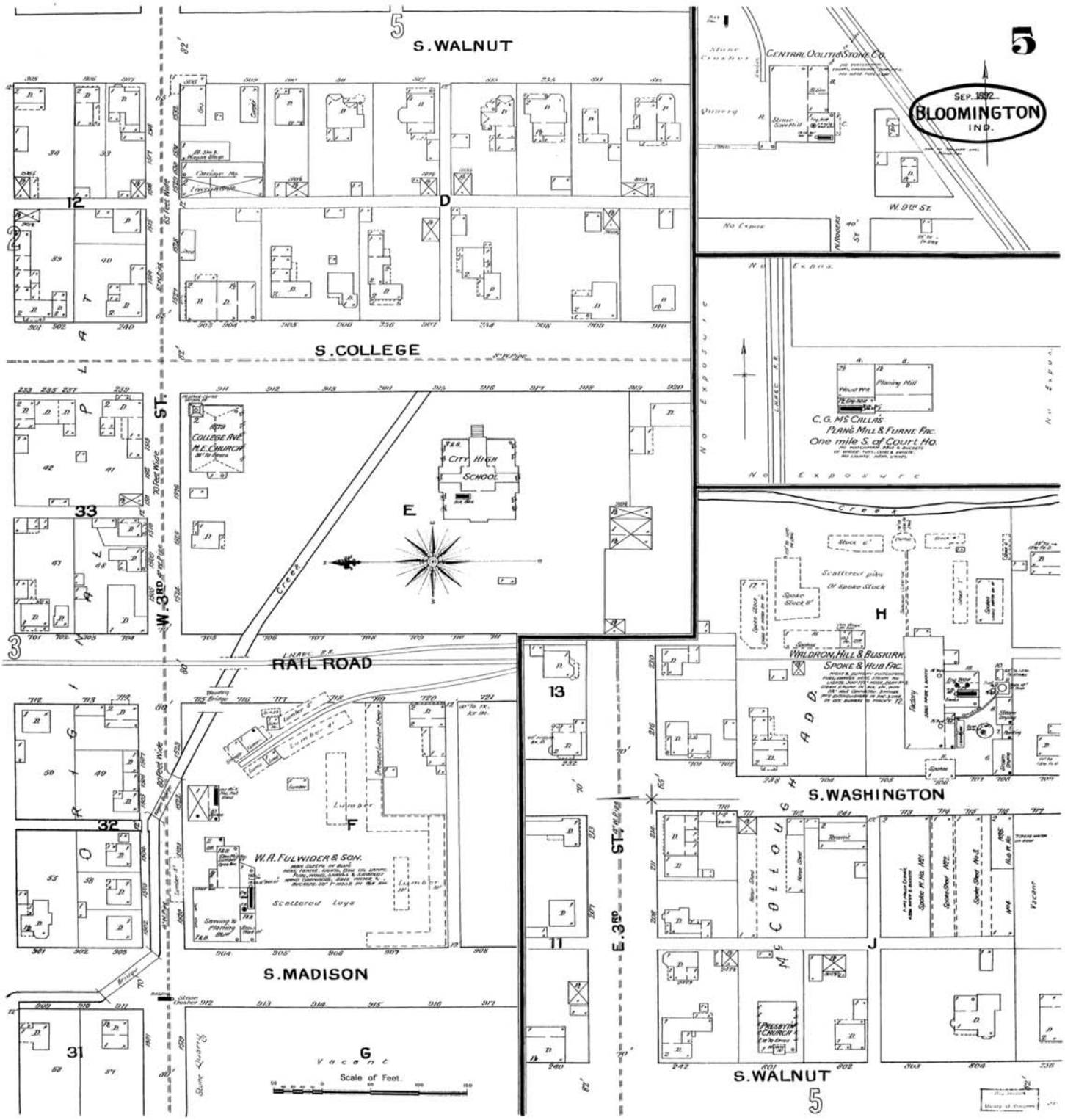
Sheet 6
1898



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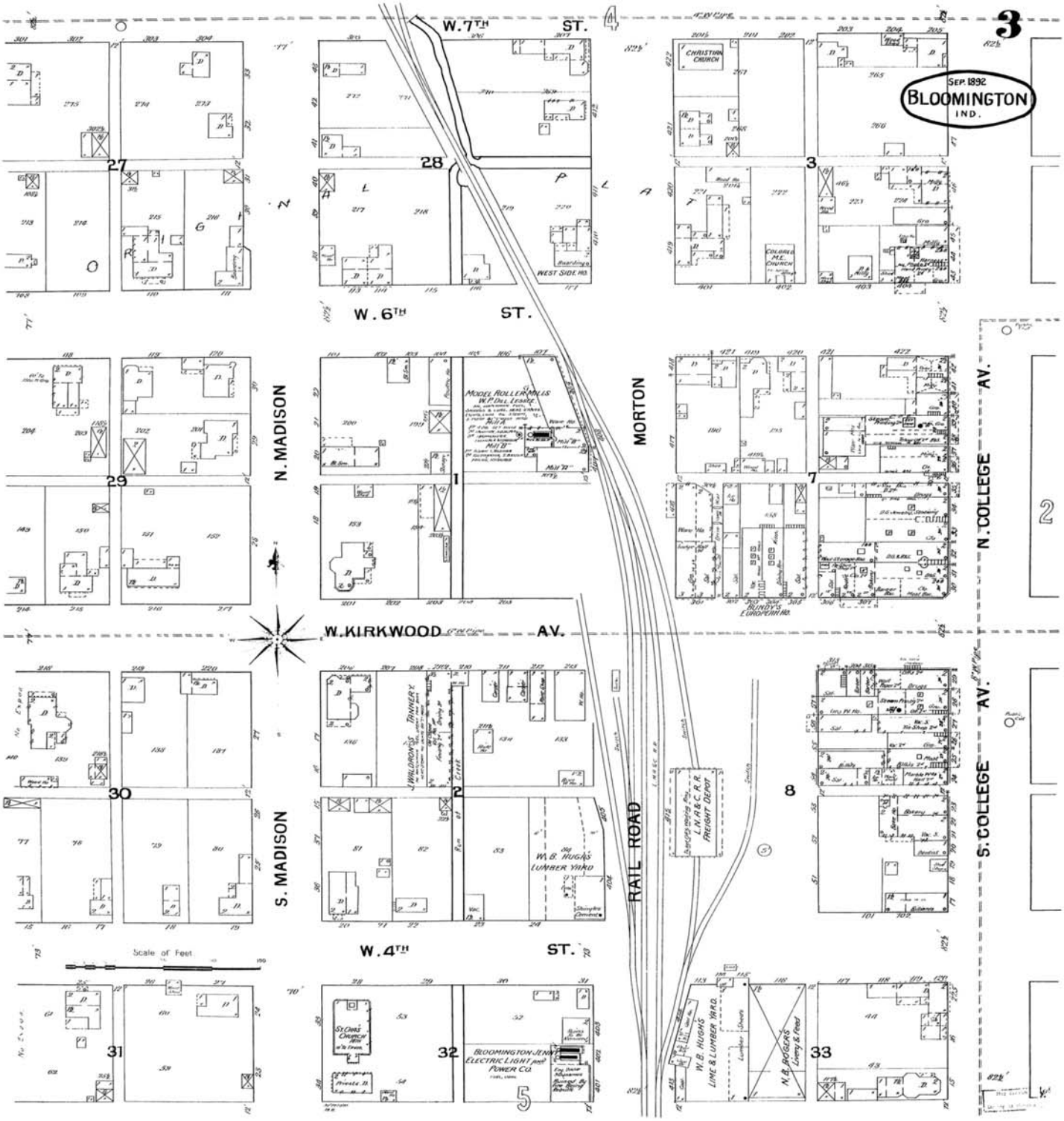
Sheet 5
1892



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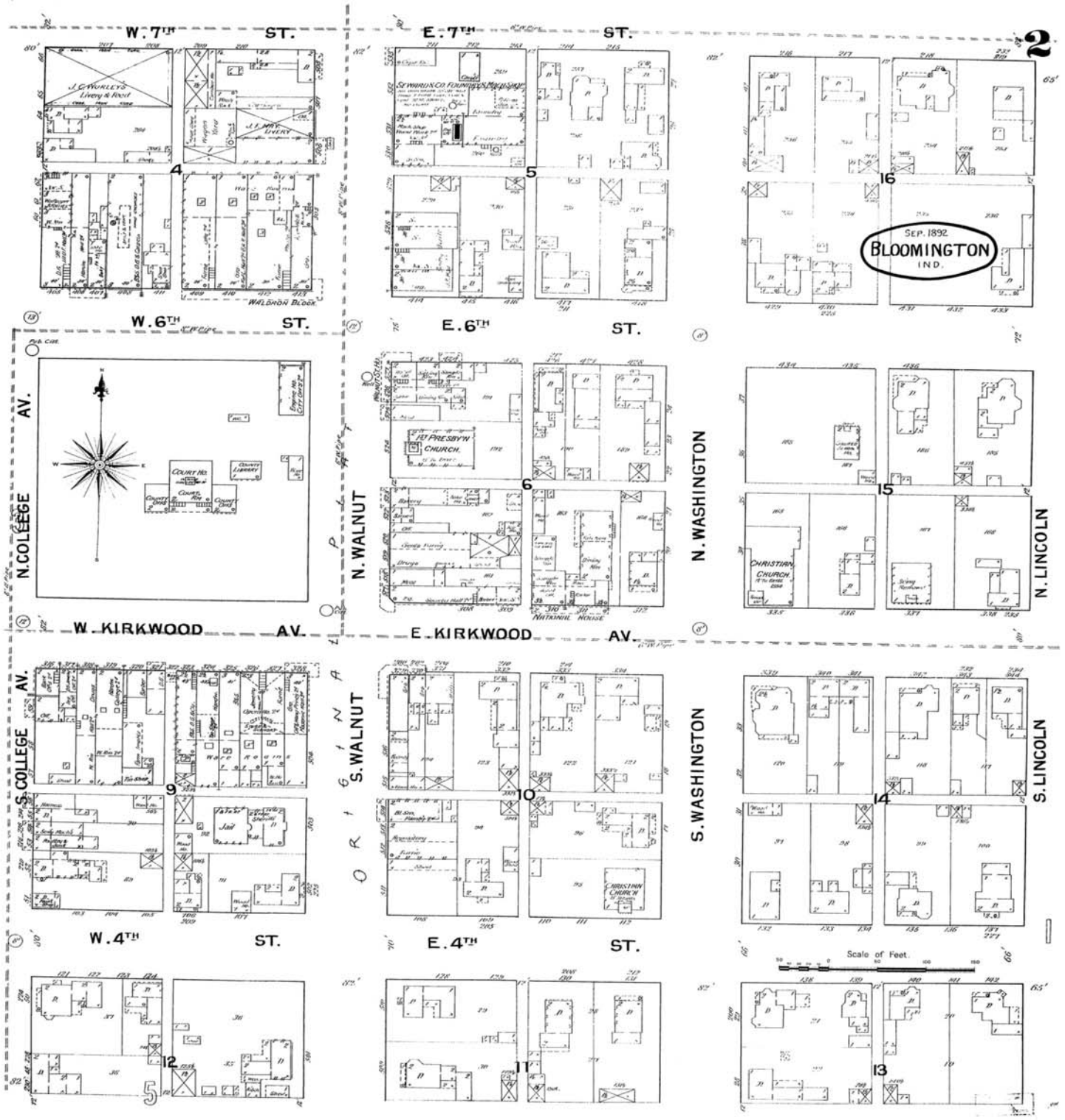
Sheet 3
1892



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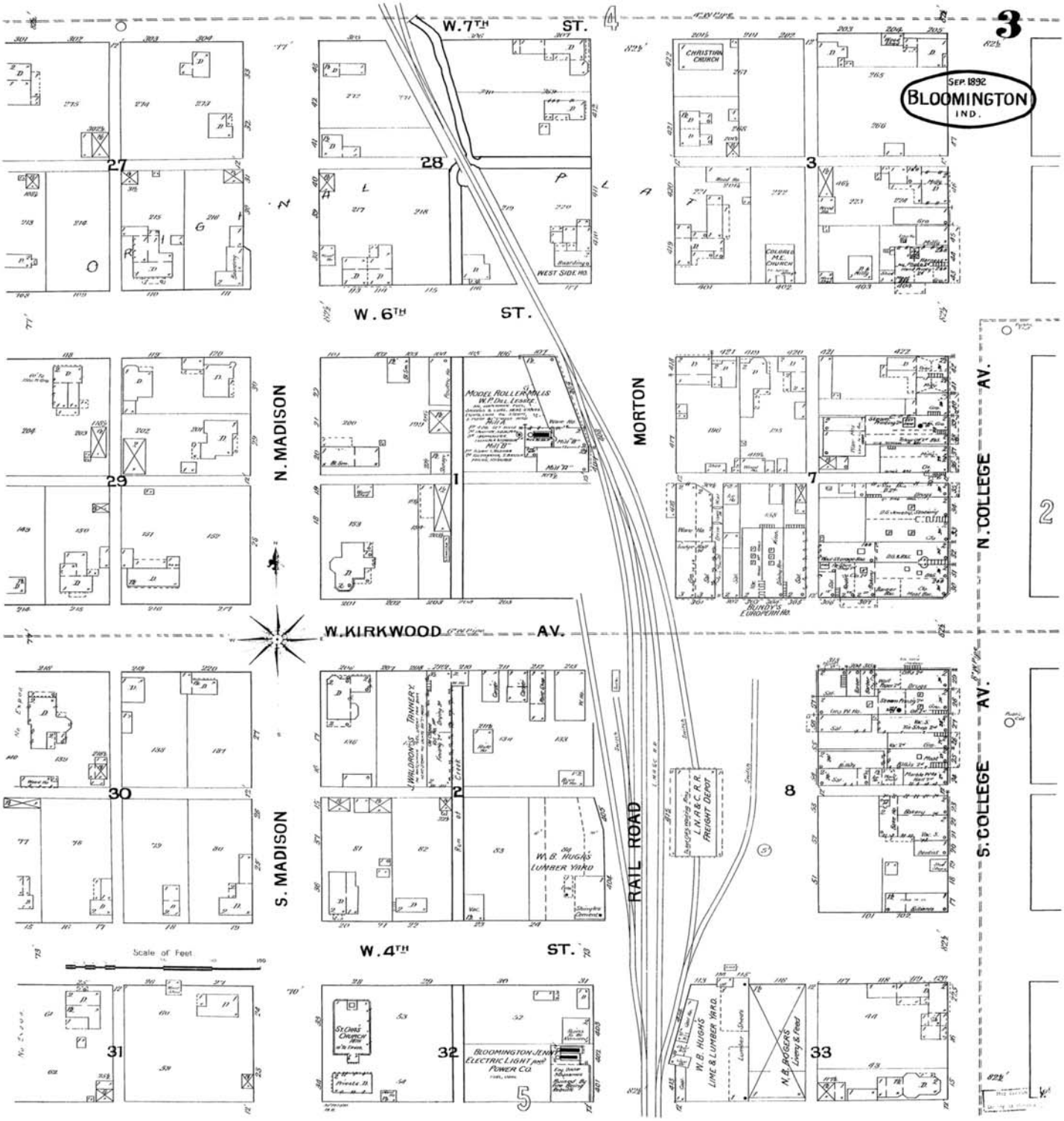
Sheet 2
1892



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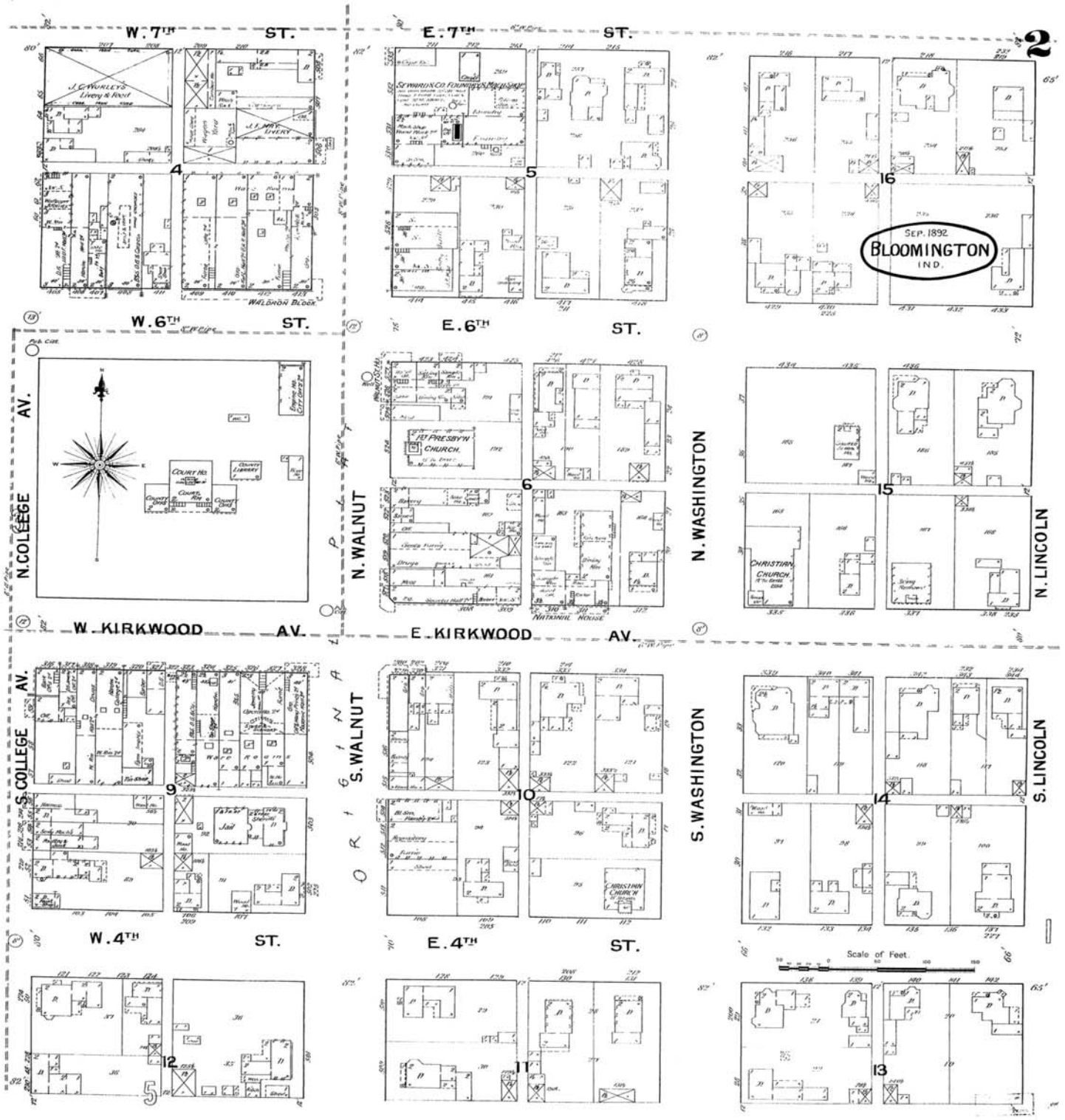
Sheet 3
1887



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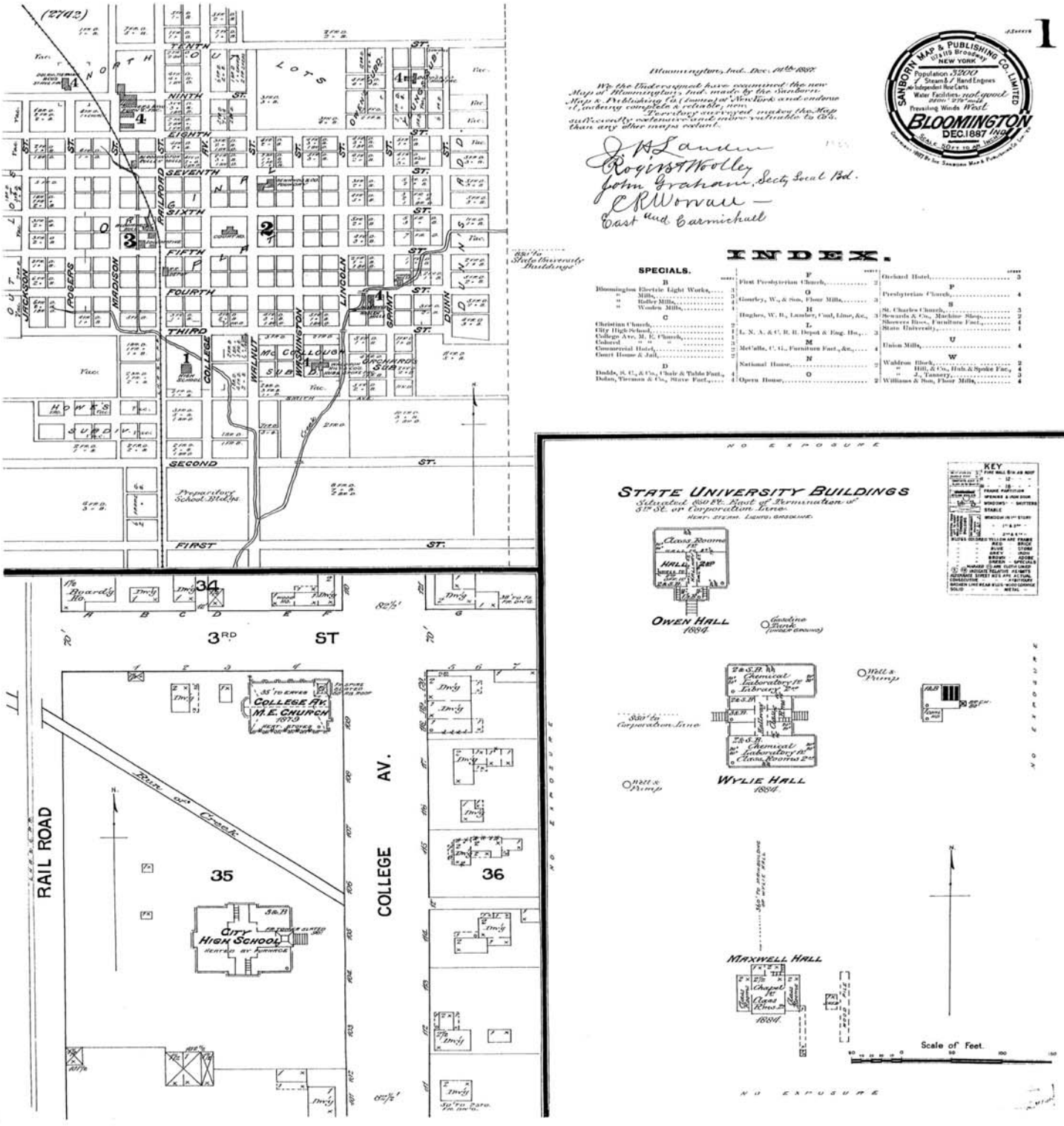
Sheet 2
1887



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Sheet 1
1887

Appendix G

Historical Aerial Photographs

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

GeoSearch
On time. On target. In touch.™

Historical Aerial Photographs

NEW: *GeoLens by Geosearch*

Target Property:

Commercial Property
216 S College Ave
Bloomington, Monroe, Indiana 47404

Prepared For:

BCA Environmental-Indianapolis

Order #: 125529
Job #: 290703
Project #: 19-132
Date: 4/30/2019

Target Property Summary

Commercial Property
216 S College Ave
Bloomington, Monroe, Indiana 47404

USGS Quadrangle: ***Bloomington***
Target Property Geometry: ***Area***

Target Property Longitude(s)/Latitude(s):
(-86.536000967, 39.165532954), (-86.534987092, 39.165532954), (-86.534987092, 39.164726071), (-86.536000967, 39.164726071)

Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2008	USDA	1" = 500'	N/A
2007	USDA	1" = 500'	N/A
2006	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2003	USDA	1" = 500'	N/A
03/16/1992	USGS	1" = 500'	5655-250
04/05/1998	USGS	1" = 500'	N/A
11/22/1986	USGS	1" = 500'	257-112
05/15/1984	USGS	1" = 500'	197-73
05/09/1977	USGS	1" = 500'	2-160
01/09/1967	USGS	1" = 500'	2-99
03/27/1962	USGS	1" = 500'	1-64
09/25/1952	AMS	1" = 500'	1349
07/12/1939	ASCS	1" = 500'	3-18

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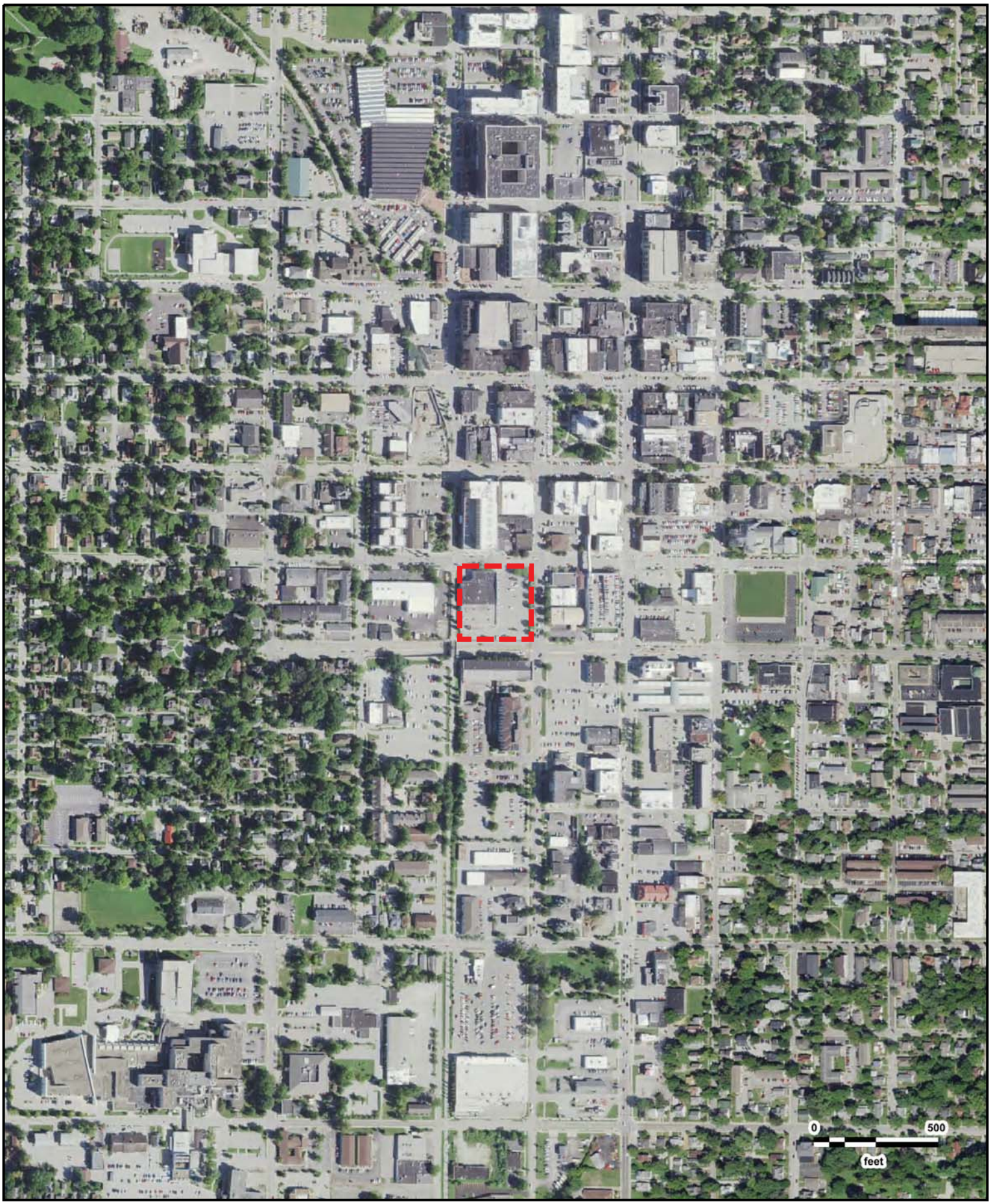
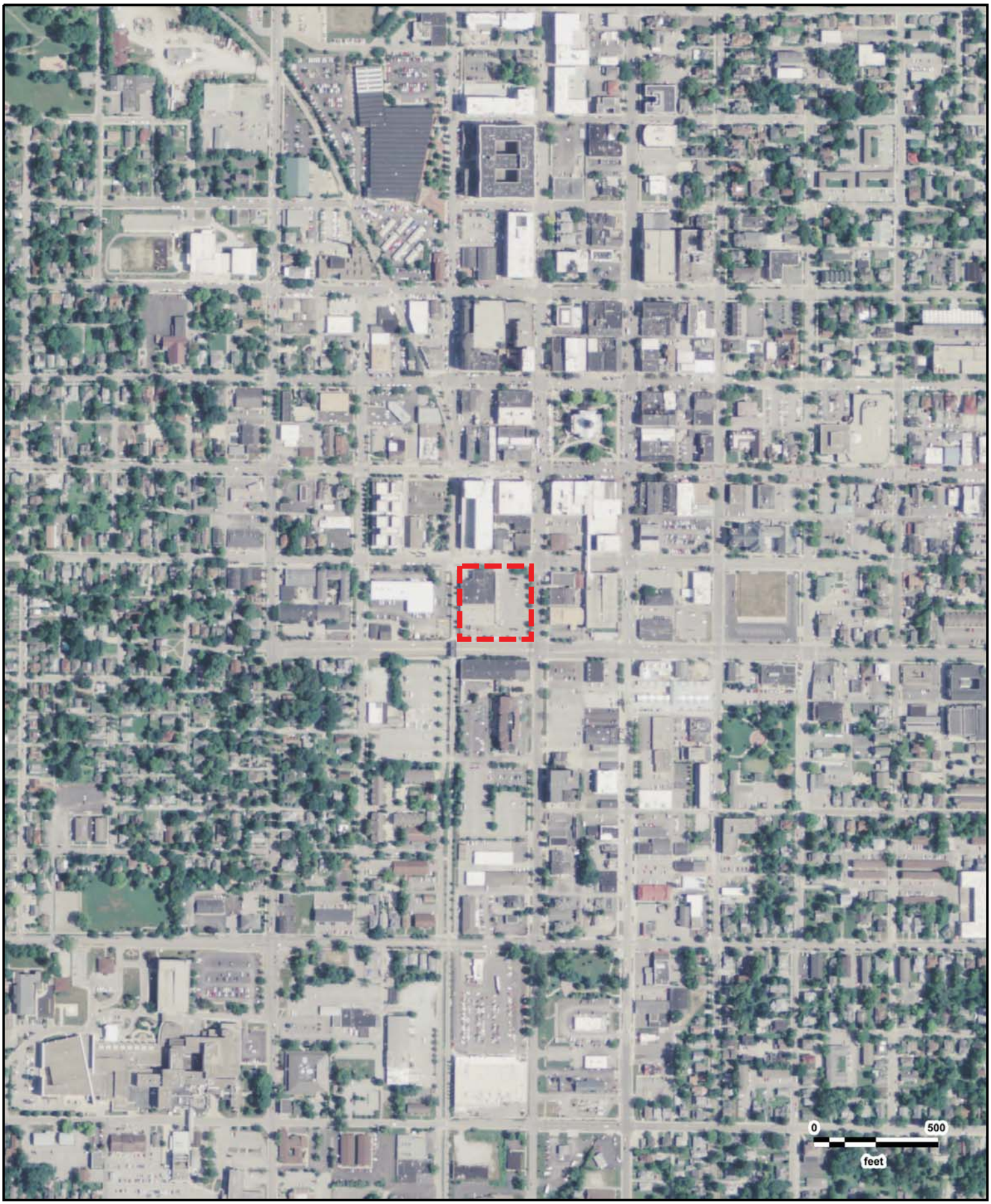


N
W E
S

Commercial Property
USDA
2016

GeoSearch

JOB #: 290703 - 04/30/2019



N
W E
S

Commercial Property
USDA
2014

GeoSearch

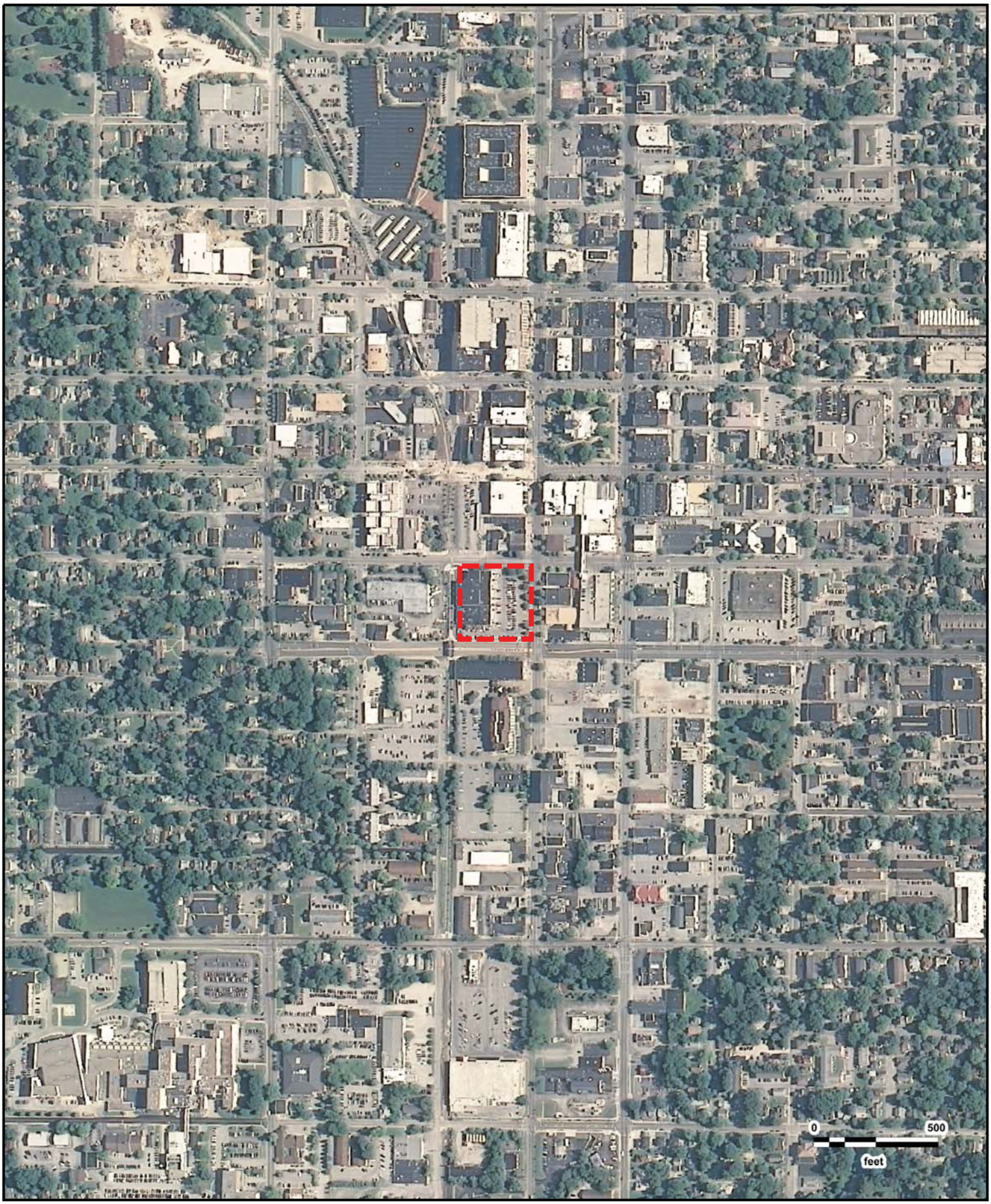
JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USDA
2012

GeoSearch

JOB #: 290703 - 04/30/2019

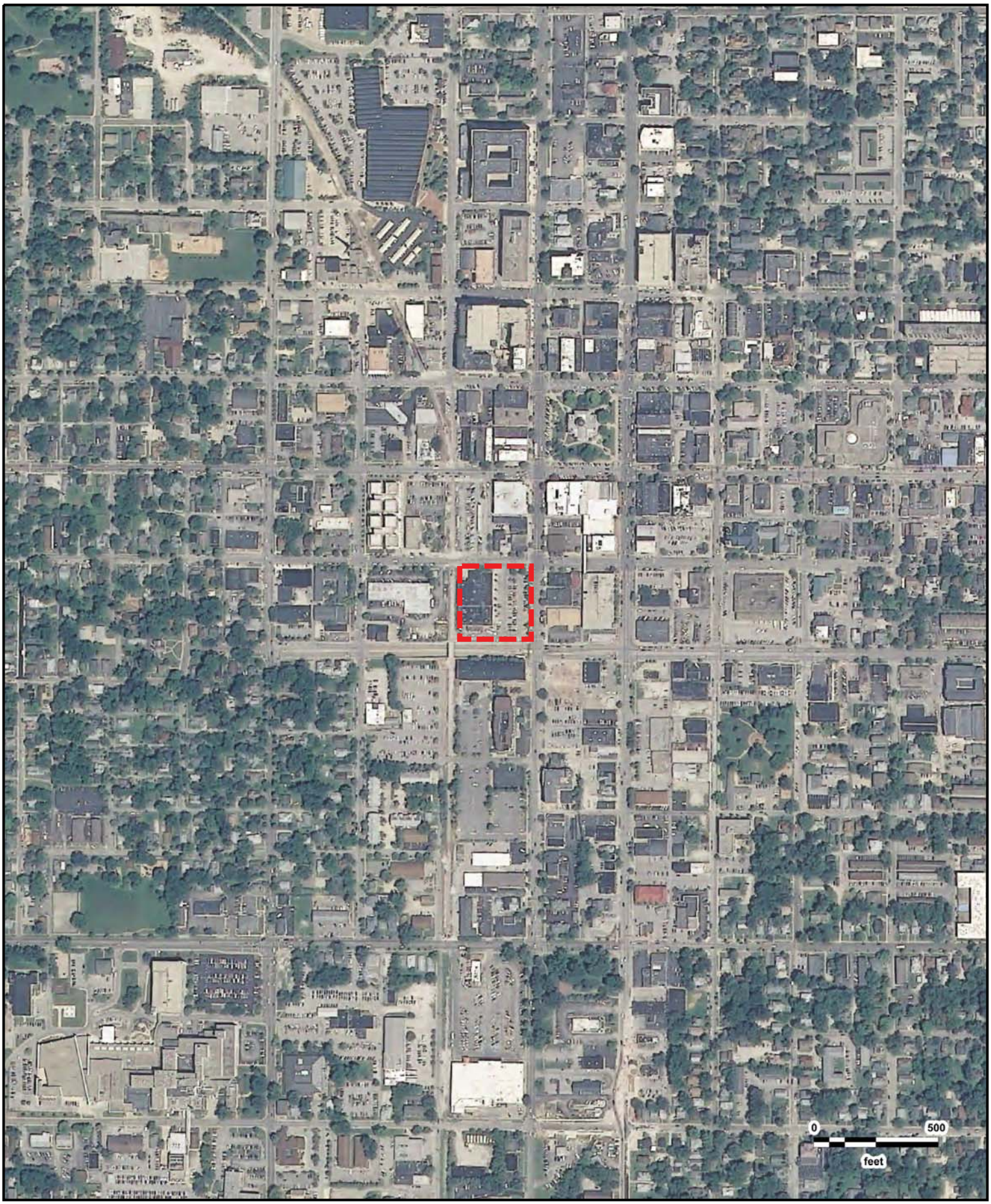


N
W E
S

Commercial Property
USDA
2010

GeoSearch

JOB #: 290703 - 04/30/2019



N
W E
S

Commercial Property
USDA
2008

GeoSearch

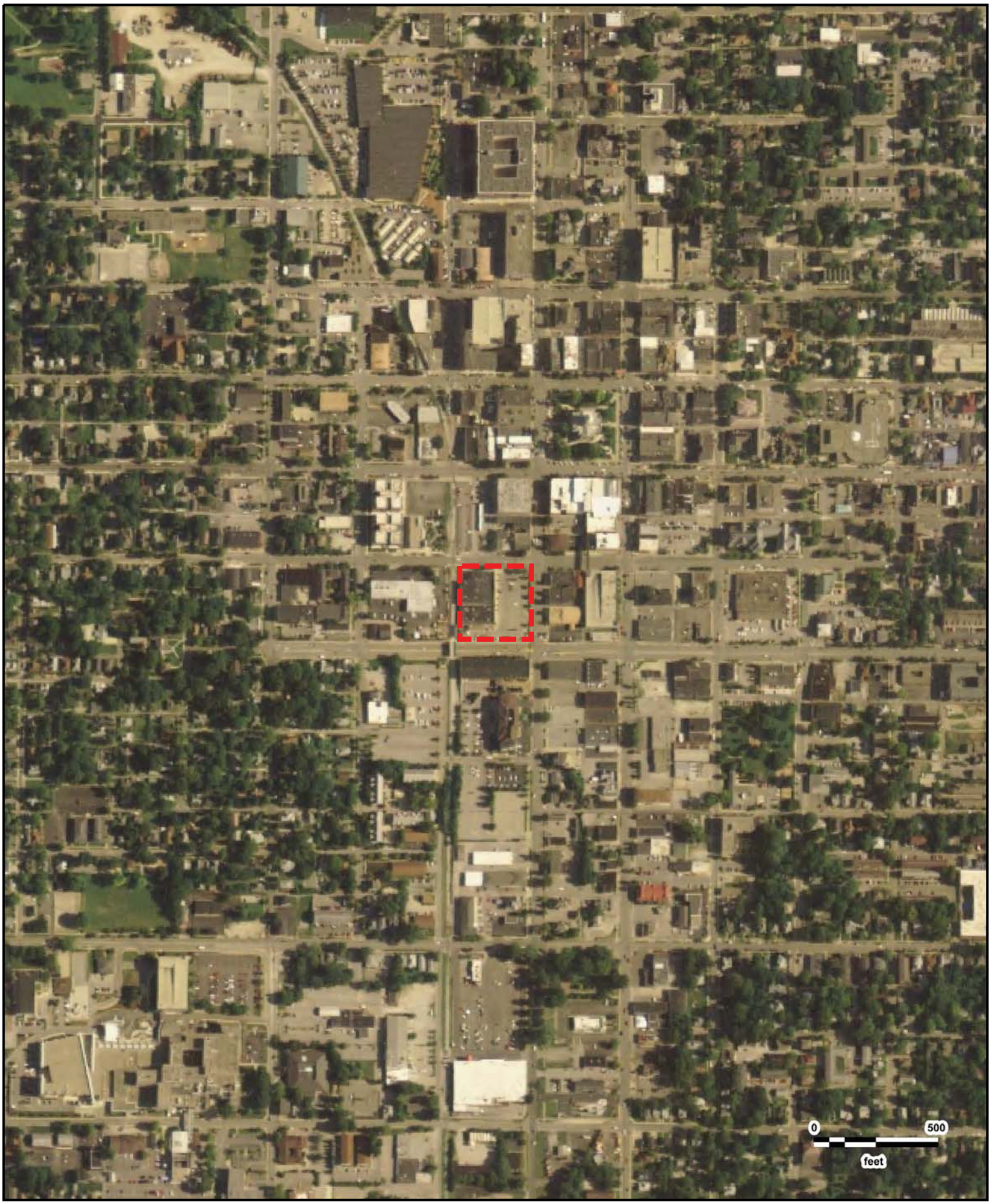
JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USDA
2007

GeoSearch

JOB #: 290703 - 04/30/2019

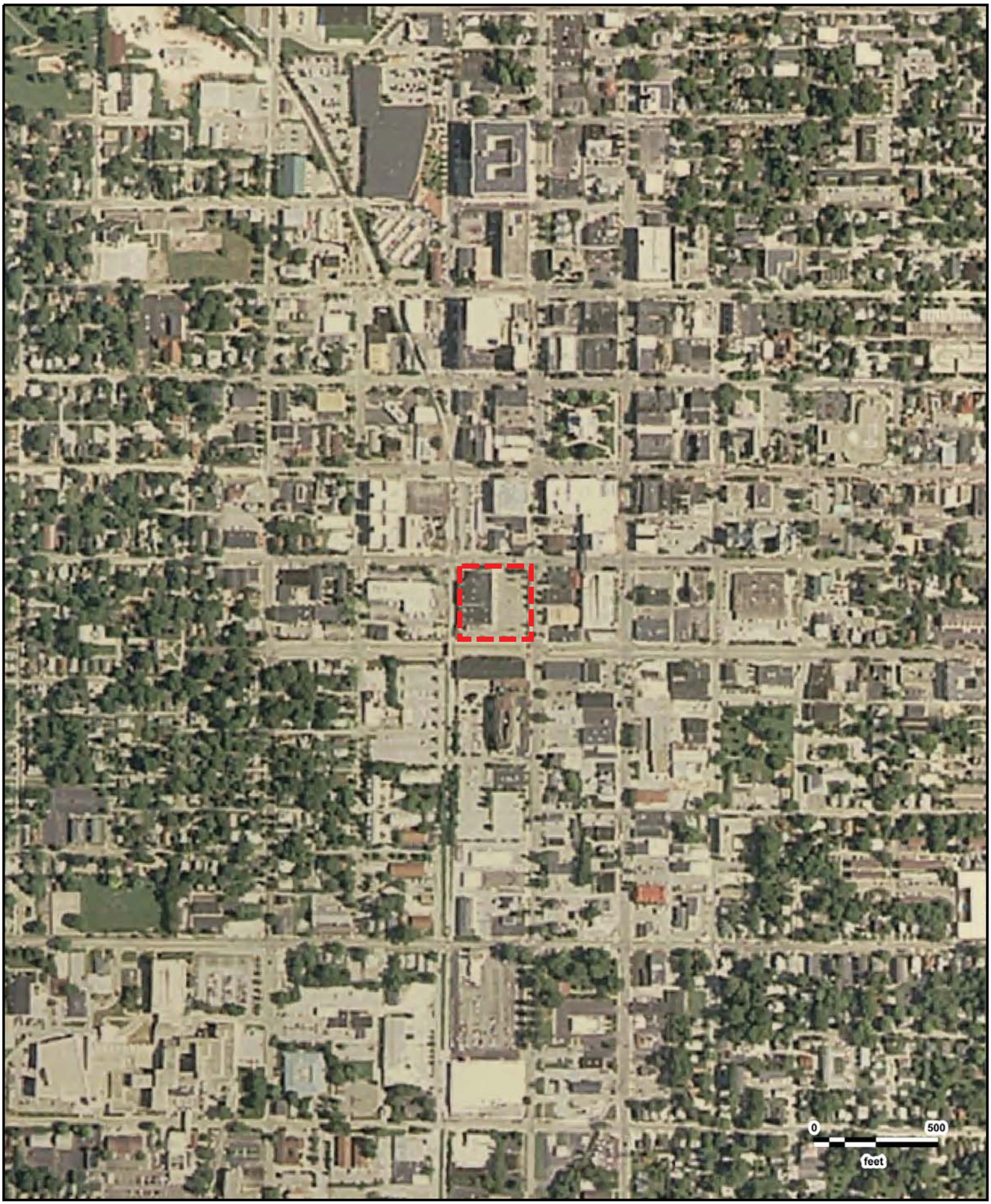


N
W E
S

Commercial Property
USDA
2006

GeoSearch

JOB #: 290703 - 04/30/2019

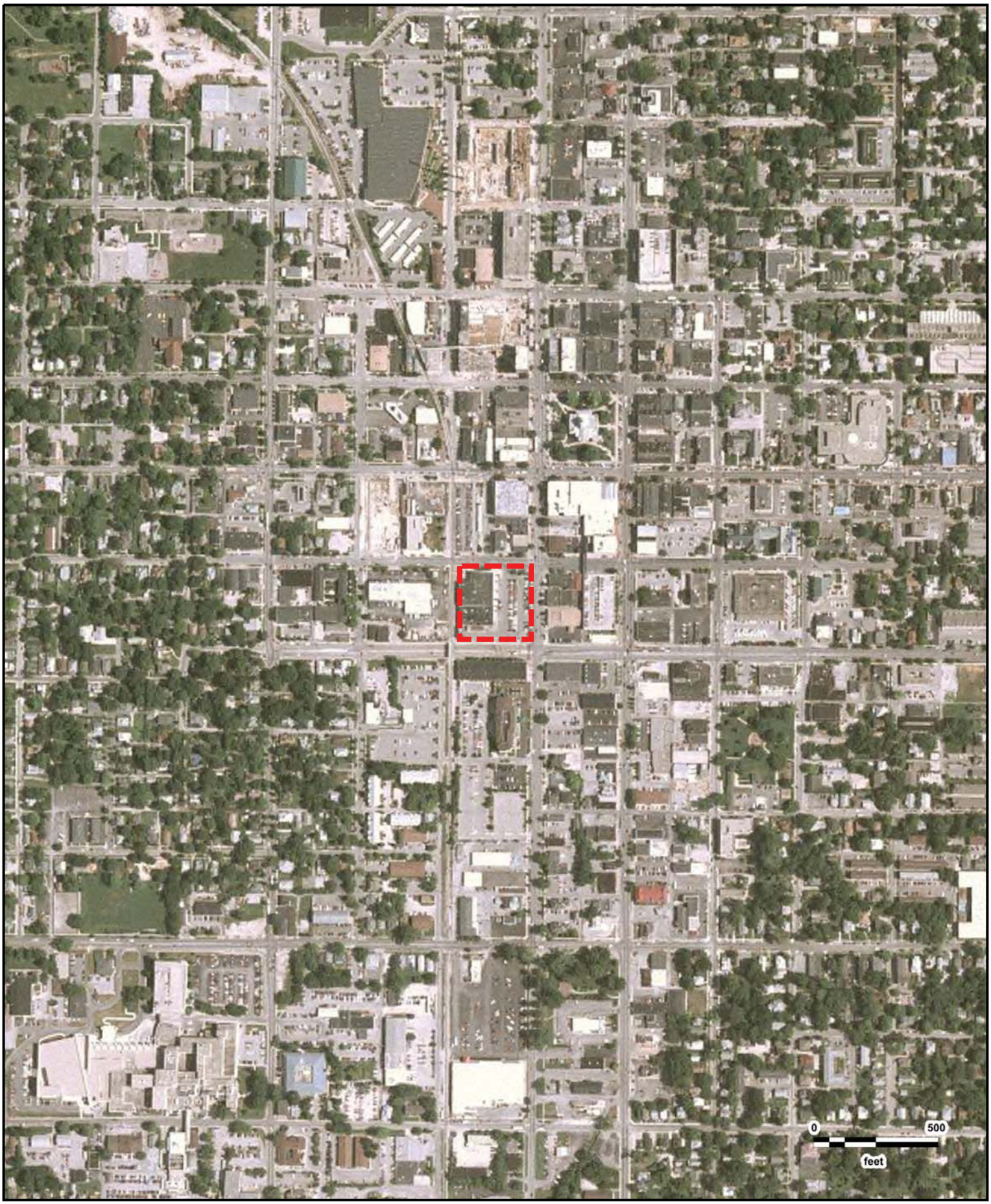


N
W E
S

Commercial Property
USDA
2005

GeoSearch

JOB #: 290703 - 04/30/2019



N
W E
S

Commercial Property
USDA
2003

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USGS
03/16/1992

GeoSearch

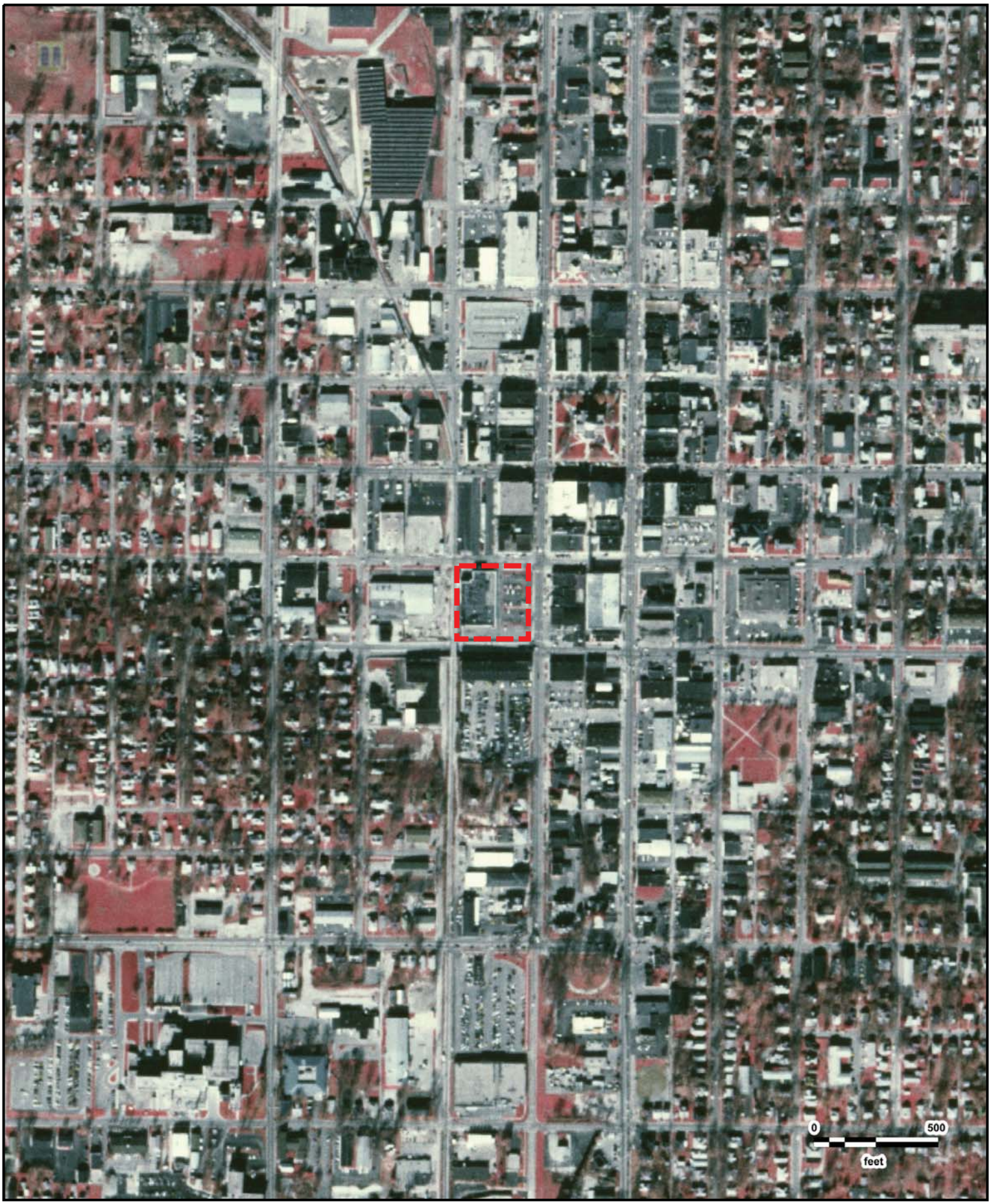
JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USGS
04/05/1998

GeoSearch

JOB #: 290703 - 04/30/2019

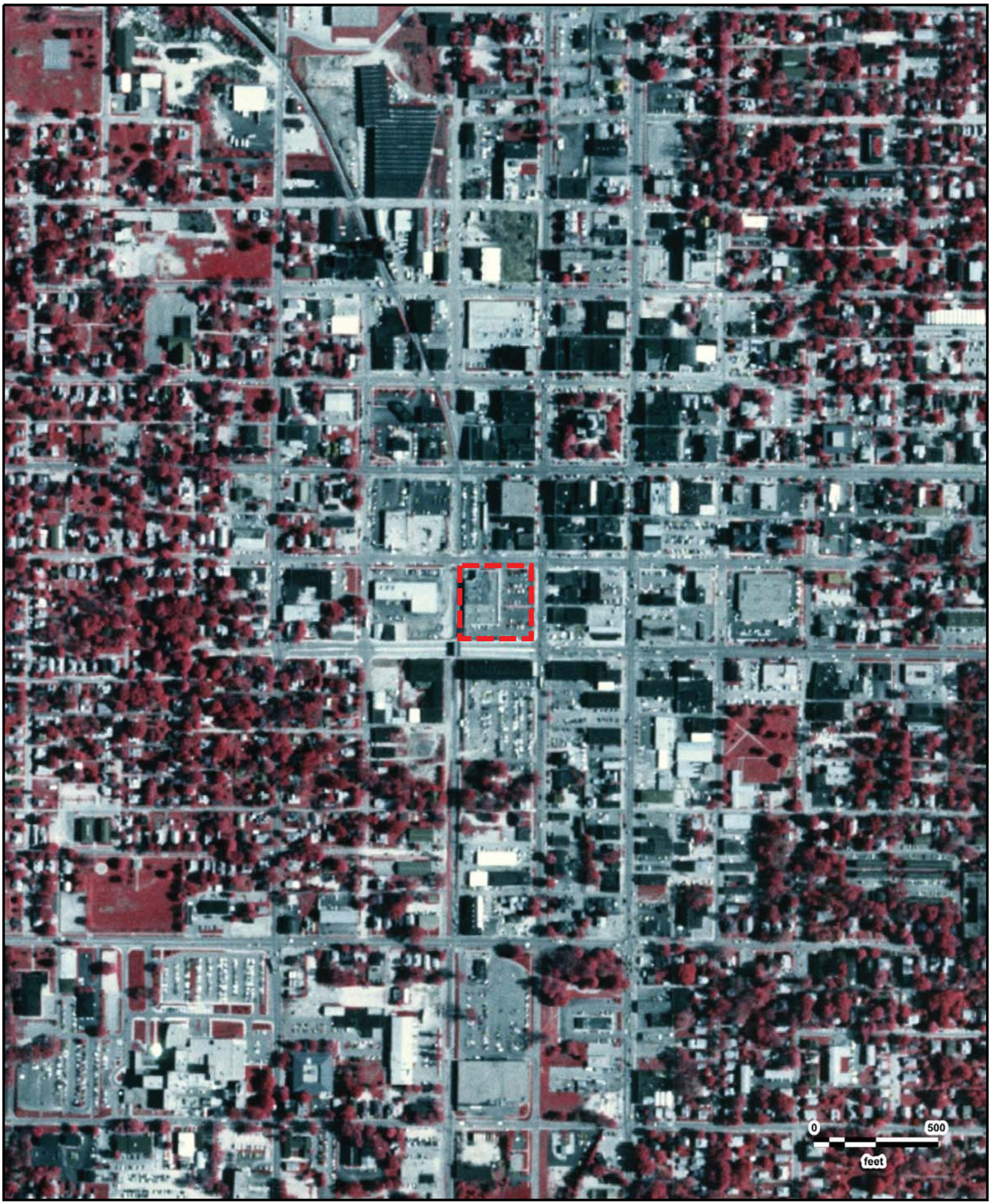


N
W E
S

Commercial Property
USGS
11/22/1986

GeoSearch

JOB #: 290703 - 04/30/2019



N
W E
S

Commercial Property
USGS
05/15/1984

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USGS
05/09/1977

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USGS
01/09/1967

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
USGS
03/27/1962

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
AMS
09/25/1952

GeoSearch

JOB #: 290703 - 04/30/2019

N
W E
S

Commercial Property
ASCS
07/12/1939

GeoSearch

JOB #: 290703 - 04/30/2019

Appendix H

City Directory Search

Commercial Building
216 South College Avenue
Bloomington, Indiana, 47404

GeoSearch
On time. On target. In touch.™

City Directory Standard Report

Target Property:

216 S College Ave,

Bloomington, IN 47404

Prepared For:
BCA Environmental-Indianapolis

Order #: 125529

Project #: 19-132

Date: 4/30/2019

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2016

S COLLEGE AVE

123	INDIANA LIMESTONE CO INC [CUT STONE & STONE PRODUCTS]
123	LIMESTONE INDIANA OOLITIC [BUSINESS MGMT CONSULTANTS]
123	NUNN KELLEY P
123	NUNN LEAH K
123	X [W 4TH ST INTS]
200	SABBEGH DAVID L
200	STAMPFLI ASSOCIATES CPA'S [ACCOUNTANTS]
201	RESTAURANT [RESTAURANTS]
201	RHOADE GERALD R
201	SERENDIPITY MARTINI BAR [BARS]
202	HILLIARD LYONS [FINANCIAL PLANNING CONSULTANTS]
207	BACK DOOR [NIGHT CLUBS]
209	ATLAS BALLROOM [NIGHT CLUBS]
211	GERMAN AMERICAN BANK [BANKS]
211	SILLS MARK F
214	INDIANA LEGAL SVC INC [ATTORNEYS]
216	KILROY'S SPORTS BAR [CATERERS]
222	GRANT PROPERTIES [APARTMENTS]
222	MCCOY DOUGLAS M
226	BUNGER & ROBERTSON [ATTORNEYS]
226	X [W 3RD ST INTS]
302	MARKEY'S RENTAL & STAGING [AUDIO-VISUAL EQUIP]
302	MONROE COUNTY CONVENTION CTR [BANQUET ROOMS]
302	SCANK ROBT S JR
310	COURTYARD-BLOOMINGT ON [HOTELS & MOTELS]
335	MONROE COUNTY DEMOCRATIC PARTY [POLITICAL ORG]

	345	EIGHT MEDICAL [PHYSICIANS & SURGEONS EQUIP]	103
	345	MULTI TENANT RESIDENTIAL	
	345	X [W SMITH AVE INTS]	

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2011

S COLLEGE AVE

122	TREASURE CHEST HOBBIES [HOBBY & MODEL CONSTR SUPL]	
122	X [W 4TH ST INTS]	
200	SABBAGH DAVID L	
200	STAMPFLI ASSOCIATES CPA'S [ACCOUNTANTS]	
200	US NAVAL RECURITING [RECRUITING-US ARMED FORCES]	
201	RHOADES GERALD R	
201	SERENDIPITY MARTINI BAR [BARS]	
202	HILLIARD LYONS [FINANCIAL PLANNING CONSULTANTS]	
211	UNITED COMMERCE BANCORP [HOLDING COMPANIES]	
214	INDIANA LEGAL SVC INC [ATTORNEYS]	
216	KILROY'S SPORTS BAR [BARS]	
222	GRANT PROPERTIES [APARTMENTS]	
222	MCCOY DOUGLAS M	
226	BUNGER & ROBERTSON [ATTORNEYS]	
226	X [W 3RD ST INTS]	
226	Y [W 3RD ST CONTINUES]	
302	BLOOMINGTON MONROE CNTY CNVNTN [BANQUET ROOMS]	
302	MARKEY'S RENTAL & STAGING [AUDIO-VISUAL EQUIP]	
302	SCANK ROBT S JR	
310	COURTYARD [HOTELS & MOTELS]	
335	SZAKALY MICHAEL	
345	MIDTOWN LOFTS [APARTMENTS FINDING & RENTAL]	

	345	X [W SMITH AVE INTS]

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2006

S COLLEGE AVE

123	NUNN KENNETH L & LEAH K
123	NUNN LAW OFFICE [ATTORNEYS]
123	X [W 4TH ST INTS]
200	SABBAGH DAVID L
200	STAMPFLI ASSOCIATES [ACCOUNTANTS]
201	BULLWINKLE'S [BARS]
201	RHOADE GERALD R
202	HILLIARD LYONS INC [STOCK & BOND BROKERS]
202	SMITH DENNIS D
209	VETERANS OF FOREIGN WARS [VETERANS & MILITARY ORG]
211	UNITED COMMERCE BANK [BANKS]
222	GRANT PROPERTIES [APARTMENTS]
222	MCCOY DOUG
226	BUNGER & ROBERTSON [ATTORNEYS]
226	X [W 3RD ST INTS]
226	Y [W 3RD ST CONTINUES]
301	BLOOMINGTON TIRE CO [AUTO RPR & SERV]
302	BLOOMINGTON CONVENTION CTR [BANQUET ROOMS]
302	CLASSIC CATERING INC [CATERERS]
302	MARKEY'S AUDIO-VISUAL [AUDIO-VISUAL EQUIP]
302	SCNAK ROBT S JR
310	COURTYARD-BLOOMINGTON [HOTELS & MOTELS]
335	COUNTRY RUFFLES & VICTORIAN [GIFT SHOPS]
335	HOOSIER HILLS PAVING BY JAMES [PAVING CONTRACTORS]

	343-345	NO CURRENT LISTING (2 HSES)

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2001

S COLLEGE AVE

123	DEPOSITIONS [COURT REPORTING SERV]	
123	GREENE BETSY K [ATTY]	
123	NUNN & GREENE LAW OFFICE [ATTY]	
123	NUNN KENNETH L [ATTY]	
123	X [W 4TH ST INTS]	
200	MEISSNER MICHAEL E	
200	NOT VERIFIED	
200	NOT VERIFIED	
200	SIMDATA TECHNOLOGIES	
200	SINDATA TECHNOLOGIES [COMPUTER SOFTWARE SYS]	
201	BULLWINKLES COCKTAIL LOUNGE [DRINKING PLACES]	
201	SECOND STORY NIGHTCLUB	
202	ESTES DAVID	
202	HILLIARD J J B LYONS W L [INVESTMENT BANKERS]	
202	NOT VERIFIED	
206	U S TRANSPORTATION DEPARTMENT	
209	MONROE COUNTY DAY TRANSPORTATION SERV [TRANSPORTATION AGTS'BR]	
209	STRAIN L B	M 604
209	VETERANS OF FOREIGN WARS SERVICE OFFICER [VETERANS ORGN]	
211	UNITED COMMERCE BANK [BANK]	
216	CITY GRILLE [GRILL]	
222	MCCOY DOUG	
222	SCHEIDT & COMPANY [REAL EST AGTS]	
226	BUNGER & ROBERTSON [ATTY]	

		226	RBOWA [INVESTMENT HOLDG CO]	
		226	X [W 3RD ST INTS]	
		301	BLOOMINGTON TIRE COMPANY	
		302	COMMISSION FOR BLOOMINGTON DOWNTOWN INCORPORATED [CONV & SHOW SERV]	
		302	CONVENTION CENTER OF MONROE COUNTY BLOOMINGTON	
		302	MARKEY'S AUDIO VISUAL [HM ENTERTAINMENT EQUIP]	
		305	CLASSIC CATERER & RENTAL CENTER [CATERER]	
		310	COURTYARD BY MARRIOTT [HOTEL FRANCHISED]	
		310	ENCORE CONSTRUCTION [CONSTN MGMT]	
		327	NEIDIGH CONSTRUCTION [NEW HOME CONSTN]	
		335	CENTURY 21 ALL SEASONS REALTORS [REAL EST AGTS]	
		343	SWEENEY SEAN	
R.L. POLK & CO.				
BLOOMINGTON	1996	**S COLLEGE AVE**		
		1	STREET BEGINS	
		1	X [NUMBERS IRREGULAR]	
		100	BANK ONE BLOOMINGTON N A	
		112	BIKESMITHS	
		112 1/2	APARTMENTS	
		114-116	VACANT (2 HSES)	
		116 1/2	L S I PRODUCTION [ADLL SP]	10
		116 1/2	MARTY HAWK REALTORS	
		116 1/2	MAURER JOHN	
		116 1/2	U S F & G	12
		118-119	VACANT (2 HSES)	
		120	MUSIC HOUSE [MUSIC STORE RECORDING STUDIO]	
		122	TREASURE CHEST [HOBBY SHOP]	
		123	NUNN KELLEY & GREENE P C	

123	X [W 4TH INTS]	
200	SOUTH COLLEGE SQUARE BLDG COLLEGE SQ	
200	SUITES	
200	U S ARMY RECRUITING STA	C
200	U S M C RECRUITING STA	B
200	U S NAVY RECRUITING STA	A
201	BULLWINKLER'S [COCKTAIL LOUNGE]	
201	SECOND STORY [NIGHT CLUB]	
202	U S ARMY AREA RECRUITING COMMAND	C
202	U S CIVIL SERVICE	D
202	U S PROBATION OFCR	A
204	VACANT (2 HSES)	
206	U S INTERNAL REVENUE SERV [ADDL SP]	
208	U S INTERNAL REVENUE SERV [ADDL SP]	
209	V F W FATHERS AUXILIARY NO 8	
209	V F W STRAIN LAURENS B POST NO 604	
211	JERRY'S DIAGNOSTIC CENTER [AUTO REPR]	
214	CRISIS PREGNANCY CENTER [NON-PROFIT ORG]	
216	DAMON'S CLUBHOUSE [RESTR]	
216	X [W 3RD INTS]	
226	BUNGER & ROBERTSON [LWYRS]	
226	COMPREHENSIVE FINANCIAL CONSULTANTS]	
301	BLOOMINGTON TIRE CO [AUTO REPAIR SERVICE & TIRES]	
302	CLASSIC CATERING	
302	CONVENTION CENTER OF MONROE COUNTY-BLOOMINGTON [MEETING RM]	
302	MARKEYS AUDIO-VISUAL	
327	SPICER'S AUTO SALES [USED CARS]	

		335	CENTURY 21 ALL SEASONS REALTORS
		343	RUFF JERARD G [PHYS]
		343-349 1/2	VACANT (3 HSES)
		343-349 1/2	X [W SMITH AV INTS]

R.L. POLK & CO.

BLOOMINGTON 1991 **S COLLEGE AVE**

123	NUNN KELLEY & GREENE P C	
123	X [W 4TH INTS]	
200	SOUTH COLLEGE SQUARE BLDG	
200	SUITES	
200	U S ARMY RECRUITING STA	C
200	U S M C RECRUITING STA	B
200	U S NAVY RECRUITING STA	A
201	BULL WINKLE'S [COCKTAIL LOUNGE]	
201	SECOND STORY [NIGHT CLUB]	
202	U S ARMY AREA RECRUITING COMMAND	C
202	U S GOVT CIVIL SERVICE	D
202	U S GOVT PROBATION OFC	A
204	U S GOVT FED BUR OF INVESTIGATION	
206	U S GOVT INTERNAL REVENUE SERVICE	
208	U S GOVT INTERNAL REVENUE SERVICE (ADDL SP)	A
209	V F W FATHERS AUXILIARY NO 8	
209	V F W STRIAN LAURENS B POST NO 604	
210	HARLOS REALTY CO	
211	JERRY'S DIAGNOSTIC CENTER [AUTO REPR]	
214	VACANT	
216	RELIABLE DRUGS	
216	X [W 3RD INTS]	
226	BUNGER ROBERTSON KELLEY & STEGER [LWYRS]	

		301	BLOOMINGTON TIRE CO
		302	VACANT
		327	SPICER'S AUTO SALES [USED CARS]
		335	CENTURY 21 ALL SEASONS REALTORS
		342	HILL FLOYD

R.L. POLK & CO.

BLOOMINGTON	1986	**S COLLEGE AVE**	
		123	NUNN & KELLEY LAW OFFICE P C
		123	X [W 4TH INTS]
		200	SOUTH COLLEGE SQUARE BLDG
		200	SUITES A
		200	U S AIR FORCE D
		200	U S ARMY RECRUITING STA
		200	U S M C RECRUITING STA C
		200	U S NAVY RECRUITING STA B
		200	VACANT
		201	BULLWINKLE'S [COCKTAIL LOUNGE]
		201	SECOND STORY [NIGHT CLUB]
		202	ARMY AREA RECRUITING HQ D
		202	CIVIL SERVICE
		202	DEFENSE INVESTIGATIVE SERV
		202	U S PROBATION OFC
		202	VACANT
		204	FED BUR OF INVESTIGATION
		206	INTERNAL REVENUE SERV (TAX INFO)
		208	ALL WAYS TRAVEL
		209	V F W FATHERS AUXILIARY NO 8
		209	V F W STRAIN LAURENS B POST NO 604
		210	VACANT
		211	JERRY'S DIAGNOSTIC CENTER [AUTO REPR]
		213	AVIS CAR RENTAL

		213	RYDER TRUCK RENTAL [LEASING]	
		213	SCISCOE SALES & SERVICE [USED CARS]	
		216	PEOPLES DRUG CO INC	
		216	X [W 3D INTS]	
		220	CHESTNUT WM J [PHYSCHOLOGIST]	
		222	BLOOMINGTON BOARD OF REALTORS	
		226	BUNGER ROBERTSON KELLEY & STEGER [LWYRS]	
		301	BLOOMINGTON TIRE CO INC	
		302	O'DANIEL TOM FORD A M C JEEP RENAULT [AUTOS]	
		327	SPICER'S AUTO SALES [USED CARS]	
		335	CENTURY 21 ALL SEASONS REALTORS	
		342	DUNN GREGORY	
R.L. POLK & CO.				
BLOOMINGTON	1981	**S COLLEGE AVE**		
		122	BLOCK H & R INC [TAX SERV]	
		122	X [W 4TH INTS]	
		200	DIAL JOE INSURANCE INC	
		200	SOUTH COLLEGE SQUARE BLDG	
		200	SUITES	
		200	U S A F RECRUITING STA	D
		200	U S ARMY RECRUITING STA	C
		200	U S M C RECRUITING STA	B
		200	U S NAVY RECURITING STA	A
		201	BULLWINKLE'S COCKTAIL LOUNGE	
		201	CIVIL SERVICE	D
		201	DEFENSE INVESTIGATIVE SERV	B
		201	ROOMS	
		201	U S PROBATION OFC	A
		201	US DEPT OF THE INTERIOR (BUR OF MINES)	C
		204	FED BUR OF INVESTIGATION	

		206	INTERNAL REVENUE SERV (TAX INFO)
		208	ALL WAYS TRAVEL C
		208	BLOOMFIELD STATE BK (LOAN PROD OFC)
		209	FATHERS AUXILLIARY NO 8 OF V F W
		209	LADIES AUXILIARY OF V F W
		209	STRAIN LAURENS B POST NO 604 (V F W)
		209	VETERANS OF FOREIGN WARS CLUB (POST 604)
		210	U S A F OFC
		211	FROSTY'S DODGE INC [AUTO DLRS]
		213	AVIS CAR RENTAL
		216	HAAG DRUG CO INC
		222	RIGGINS STEPH S [COML REAL EST]
		226	BUNGER HARRELL & ROBERTSON [LWYRS]
		226	SOUTH COLLEGE SQUARE BLDG
		226	X [W 3D INTS]
		301	BLOOMINGTON AUTO SERVICE CENTER
		301	BLOOMINGTON TIRE CO
		302	O'DANIEL TOM INC [AUTOS]
		327	SPICER'S AUTO SALES [USED CARS]
		335	CENTURY TWENTY ONE ALL SEASONS REALTY
		342	WOOD CHARLES W
R.L. POLK & CO.			
BLOOMINGTON	1976	**S COLLEGE AVE**	
		122	H & R BLOCK INC [TAX SERV]
		122	X [W 4TH INTS]
		201	BLOOMINGTON LODGE NO 1081 (LOOM)
		201	MOOSE LOYAL ORDER OF LODGE NO 1081
		206	VACANT
		209	FATHERS AUXILLIARY NO 8 OF V F W

		209	LADIES AUXILIARY OF V F W	
		209	STRIAN LAURENS B POST NO 604 (V F W)	
		209	VETERANS OF FOREIGN WARS CLUB (POST 604)	
		211	SCISCOE DODGE INC [AUTO DLRS]	
		216	HAAG DRUG CO INC	
		216	X [W 3D INTS]	
		301	BLOOMINGTON AUTO SERVICE CENTER	
		301	BLOOMINGTON TIRE & RETREADING CO INC	
		302	O'DANIEL TOM INC [AUTOS]	
		327	SPICER'S AUTO SALES [USED CARS]	
		335	APARTMENTS	
		335	RICE INAS TAX SERVICE	1
		342	GERTH GENEVA M	
R.L. POLK & CO.				
BLOOMINGTON	1971	**S COLLEGE AVE**		
		122	H & R BLOCK INC [TAX SERV]	
		122	X [W 4TH INTS]	
		201	BLOOMINGTON LODGE NO 1081 (LOOM)	
		201	MOOSE CLUB	
		206	KROGER CO	
		209	FATHERS AUXILLIARY NO 8 OF VFW	
		209	LADIES AUXILIARY OF V F W	
		209	STRAIN LAURENS B POST NO 604 (V F W)	
		209	VETERANS OF FOREIGN WARS CLUB (POST 604)	
		211	SCISCOE DODGE INC [AUTO DLRS]	
		216	HAAG DRUG CO INC	
		223	VACANT	
		223	X [W 3D INTS]	
		301	BLOOMINGTON AUTO SERVICE CENTER	

		302	O'DANIEL TOM INC [AUTOS]	
		328	CITY PARKING LOT	
		335	APARTMENTS	
		335	EVERMAN WINCHELL B [TAX CONSULTANT]	1
		342	GERTH GENEVA M	

R.L. POLK & CO.

BLOOMINGTON	1966	**S COLLEGE AVE**		
		127	GILLIATT PRESTON C	
		127	TOURNER HOTEL	
		127	X [W 4TH INTS]	
		201	BLOOMINGTON LODGE NO 1081 (LOOM)	
		201	MOOSE CLUB	
		206	KROGER CO	
		209	FATHERS AUXILLIARY NO 8 OF THE VFW	
		209	LADIES AUXILIARY OF VFW	
		209	STRAIN LAURENS B POST NO 64 (VFW)	
		209	VETERANS OF FOREIGN WARS CLUB (POST 604)	
		211	BROWN PAUL MOTOR SALES AUTO DLRS	
		216	HAAG DRUG STORE	
		223	BROWN'S STANDARD SERVICE GAS STA	
		223	X [W 3D INTS]	
		301	BLOOMINGTON TIRE & RETREADING CO INC	
		302	O'DANIEL TOM INC AUTOS	
		327	BROWN PAUL MTR SLS USED AUTOS	
		328	CITY PARKING LOT	
		335	APARTMENTS	
		335	EVERMAN WINCHELL B TAX CONSULTANT	1
		342	WOODS CHAS	

R.L. POLK & CO.

BLOOMINGTON 1960 **S COLLEGE AVE**

127-29	GILLIATT PRESTON C
127-29	TOURNER HOTEL
127-29	X [W 4TH INTS]
201	BLMGTN LODGE NO 1081 LOOM
201	MOOSE CLUB
206	KROGER GRO
209	BLMGTN POST NO 604
209	VETERANS OF FOREIGN WARS CLUB
211-21	BROWN PAUL MOTOR SLS
216	HAAG DRUG CO
223	WALKER STANDARD SERVICE STA [GAS STA]
223	X [W 3D INTS]
303	GRAHAM FARM STORE [AGRL IMPLTS]
303	GRAHAM MOTOR SLS CO [AUTOS]
303	GRAHAM TIRE STORE
311	GRAHAM MTR TRUCK SALES
327	BROWN PAUL MTR SLS USED CAR LOT
328	CITY PARKING LOT
335	MCDONALD WILMA MRS
335	MORRIS MABEL
335	PARKS MARIE MRS
342	GERTH GENEVA

R.L. POLK & CO.

BLOOMINGTON 1955 **S COLLEGE AVE**

127-29	GILLIAT PRESTON C
127-29	TOURNER HOTEL
127-29	X [W 4TH INTS]
201	BLMGTN LODGE NO 1081 LOOM
201	MOOSE CLUB

		202	JUDAH PLMB & HTG CO
		204	KING NOBLE MOTOR SALES
		204	KING NOBLE SERV STA & GAR
		209	BLMGTN POST NO 604 VFW
		209	VETERANS OF FOREIGN WARS CLUB
		211-21	BROWN PAUL MOTOR SLS
		216	HARLOS C E INC (PLANT)
		223	WALKER JACK H [GAS STA]
		223	X [W 3D INTS]
		224	LINCREST SLS & SERV [STORM WINDOWS]
		301	GRAHAM MTR TRACTOR SLS [AGRL IMPLTS]
		302	GRHAAM MOTOR SALES CO [AUTOS]
		311	UNIVERSAL CHEVROLET [USED CARS]
		319	HORN EDW C
		319	SEARS VESTEL MRS
		319	STROUT STUART E
		323	MELCHER EDW F
		327	HENNON DOYLE
		327 1/2	VACANT
		328	CITY PARKING LOT
		335	MORRIS EMMA MRS
		342	RAMSEY EVERETT
R.L. POLK & CO.			
BLOOMINGTON	1950	**S COLLEGE AVE**	
		127-29	GILLIATT PRESTON C
		127-29	TOURNER HOTEL
		127-29	X [W FOURTH INTS]
		201	BLMGTN LODGE NO 1081 LOOM
		201	MOOSE CLUB
		202	BROWN ERCELL [FILLING STA]
		204	KING NOBLE MOTOR SALES

		209	BLMGTN POST NO 63 VFW
		209	VETERANS OF FOREIGN WARS CLUB
		211-21	BROWN PAUL MOTOR SALES
		216	HARLOS CECIL E (PLANT)
		220-24	FULL-O-PEN INC [AUTO ACCESSORIES AND APPLIANCES]
		223	WALKER JACK H [FILLING STA]
		223	X [W THIRD INTS]
		301	GRAHAM FORD TRACTOR SLS [AGRL IMPLTS]
		302	GRAHAM MOTOR SALES CO [AUTOS]
		315	SMITH MARJORIE J
		315	SWEET RUTH M MRS
		319	HORN EDW C
		319	SEARS VESTAL MRS
		319	STROUT STUART E
		323	MELCHER EDW F
		327	HENNON DOYLE
		327	ROUSE PAUL L
		327 1/2	FARRELL JERRY
		328	CENTRAL SCHOOL
		335	BRUNER JOS A
		335	MORRIS EMMA MRS
		335	RUSSELL ELMER G REV
		343	FRENCH LOUIS
		343	TAYLOR ROBT G
R.L. POLK & CO.			
BLOOMINGTON	1945-46	**S COLLEGE AVE**	
		127	TOURNER HOTEL
		127	X [W FOURTH INTS]
		201	HANNUM R RAYMOND
		204	KING'S MOTOR SALES
		204	KING'S SERVICE STATION & GARAGE

	204	PETE'S TRANSFER & DELIVERY SERVICE
	209	WILLIAMS MILTON M
	210	VACANT
	217	UNIVERSITY CAB CO
	221	LITTEN CARL J [FILLING STA]
	224	BLOOMINGTON-SPENCER & NEWCASTLE BUS LINES
	224	GREAT LAKES GREYHOUND LINES
	224	INDIANA STAGES
	224	X [W THIRD INTS]
	301	GRAHAM MOTOR SALES [FARM MACHY DEPT]
	302	GRAHAM MOTOR SALES CO [AUTO DLRS AND FARM IMPLTS]
	311	BOCK LEX
	311	FISHER RUTH MRS
	311	SANDERS ROSETTA MRS
	313	KARAN EMIL
	315	CLARK GEO N
	319	STROUT STUART E
	323	MELCHER EDW F
	325	BAUGH VEDA
	325	FERGER LYDIA C
	325	MORRIS EMMA J MRS
	325	RIDGE JOSEPHINE MRS
	342	RAMSEY MARY MRS

CARON DIRECTORY CO

BLOOMINGTON 1938-39 **S COLLEGE AVE**

125	BLOOMINGTON INSURANCE BOARD
125	BURCH TIRE & ACCESSORIES CO
125	INVESTORS SYNDICATE
125	WATT R E INSURANE
125	X [NE COR] HOTEL TOURNER
125	Y [FOURTH INTS]

200	ABRAM BROS [SERVICE STA]
201	KENTLING MAUD L
204-206	KING'S SERVICE STATION & GARAE
209	WILLIAMS M M
212-214	HUGHES BROS CO [PLANING MILL]
213	BLOOMINGTON PARKING LOT
220	FULL-O-PEP BATTERY STATION
224	BIERLEIN BUS LINE (COLUMBUS DIV)
224	BLOOMINGTON & GREENCASTLE BUS LINE
224	GREYHOUND LINES (OHIO DIV)
224	GRIFFITH BUS LINE
224	I U BUS LINE
224	UNION BUS TERMINAL
224	W [NE COR] HORN'S STANDARD SERVICE
224	X [THIRD INTS]
224	Y [SE COR] GRAHAM MOTOR SALES CO [USED CAR DEPT]
224	Z [SW COR] GRAHAM MOTOR SALES CO
311	TOURNER F F [PHYS]
315	ASHLEY W C
319	HORN E C
319	STROUT S E
323	STOGSDILL G W
327	HENNON DOYLE
328	CENTRAL SCHOOL
335	COGSWELL W G
335	EDDINGTON C R
335	HUDSON LUCILLE
335	MORRIS A D [TRUCKING]
335	WEAVER VELMA G
342	RAMSEY MARY E

CARON DIRECTORY CO

BLOOMINGTON 1934-35 **S COLLEGE AVE**

125	AM TEA CO
125	BURCH TIRE & ACCESSORIES CO
125	INVESTORS SYNDICATE
125	WATT INS AGENCY
125	X [FOURTH INTS]
125	X [NE COR] HOTEL TOURNER
125	Y [SW COR] BURCH C H [SERVICE STA]
201	KENTLING MAUD
209	WHETSELL LUTITIA
209	WILLIAMS M M
210	PHILLIPS PETROLEUM CO [SERVICE STA]
212-214	HUGHES BROS CO [PLANING MILL]
213	VANPELT C E
220	BLOOMINGTON & GREEN [CASTLE BUS LINE]
220	COLUMBUS BUS LINE
220	FULL-O-PEP BATTERY STATION
220	GRIFFITH BUS LINE
220	X [NE COR] STAN OIL CO [SERVICE STA]
220	X [THIRD INTS]
220	Y [NW COR] GREYHOUND LINES (CENTRAL GREYHOUND DIV)
220	Y [SE COR] GRAHAM MOTOR SALES CO [USED CAR DEPT]
220	Z [SW COR] GRAHAM MOTOR SALES CO
311	TOURNER F F [PHYS]
315	DODSON J W
319	HORN E C
319	STROUT S E
323	STOGSDILL G W
327	STEINMETZ J H
328	CENTRAL SCHOOL

	335	BAUER EDITH
	335	DINGLE GEO
	335	MORRIS A D
	342	RAMSEY MARY E

CARON DIRECTORY CO

BLOOMINGTON 1931-32 **S COLLEGE AVE**

125	BURCH TIRE & ACCESSORIES CO
125	WATT INS AGENCY
125	X [NE COR] HOTEL TOURNER
125	Y [FOURTH INTS]
125	Z [SW COR] BURCH C H [SERVICE STA]
201	KENTLING MAUD
209	WHETSELL LUTITIA
209	WILLIAMS M M
210	HESLER BROS [VULCANIZING]
212-214	HUGHES BROS CO [PLANING MILL]
213	MITCHELL STELLA M [FURN RMS]
220	BLOOMINGTON & GREENCASTLE BUS LINE
220	COLUMBUS BUS LINE
220	FULL-O-PEP BATTERY STATION
220	GRIFFITH BUS LINE
220	X [NE COR[STAN OIL CO [SERVICE STA]
220	X [THIRD INTS]
220	Y [NW COR] GREYHOUND LINES (CENTRAL GREYHOUND DIV)
220	Y [SE COR] GRAHAM MOTOL SALES CO USED CAR DEPT
220	Z [SW COR] GRAHAM MOTOR SALES CO
311	TOURNER F F [PHYS]
315	VACANT
319	HORN E C
319	STROUT S E

	323	STOGSDILL G W
	327	BECK LENA M
	328	CENTRAL SCHOOL
	335	BLUEM FRED
	335	MARK EUGENE
	335	MITSAKAKIS COSTAS
	335	MORRIS A D
	342	RAMSEY MARY

CARON DIRECTORY CO

BLOOMINGTON 1927-28 **S COLLEGE AVE**

127	TOURNER HOTEL
127	X [FOURTH INTS]
200	HESLER BROS BATTERY & TIRE SERVICE
201	KENTLING JOSEPH MRS
209	WHETSELL ED MRS
209	WILLIAMS MILTON
210	HUGHES BROS PLANING MILL
213	HARRIS C EDWARD
217	STANDARD OIL STATION
220	FULL-O-PEN BATTERY STATION
220	X [THIRD INTS]
300	GRAHAM MOTOR SALES CO
301	GRAHAM USED CAR DEPARTMENT
311	TOURNER FRNAK F DR
315	CARDWELL S P
319	STROUT STUART
323	ANTHONY JOE
325	VACANT
327	BECK J K MRS
330	CENTRAL GRADE SCHOOL
335	EASTON JOHN G
335	SMITH MAYE O MRS
335	ULAND HERMAN

	342	MCKINLEY CORNELIUS

CARON DIRECTORY CO

BLOOMINGTON 1922-23 **S COLLEGE AVE**

125	BURCH TIRE & ACCESSORIES CO
125	VINT T L [PLUMBER]
125	X [NE COR] HOTEL TOURNER
125	Y [FOURTH INTS]
200	HESLER BROS [VULCANIZING]
201	KENTLING JOS M D
209	WHETSELL LULA
210-214	HUGHES BROS CO [PLANING MILL]
213	HARRIS C E M D
220	PHILADELPHIA BATTERY SERVICE CO
222	ATTKISSON H K
222	BENNETT ORLA
222	STEPHENS RUTH
222	X [THIRD INTS]
222	Y [SE COR] GRHAAM MOTOR SALES CO
222	Z [SW COR] GRAHAM MOTOR SALES CO USED CAR [DEPT]
311	TOURNER F F M D
315	CARWELL S P
319	BIVIN C J
327	BECK J K
328	CENTRAL SCHOOL
335	EHRICH EDW
342	MCKINLEY R V

CARON DIRECTORY CO

BLOOMINGTON 1916-17 **S COLLEGE AVE**

125	HENSLEY & SNODDY [FURN AND ICE]
125	PATTON F R [TAXICABS]
125	X [FOURTH INTS]

	125	X [NE COR] HOTEL TOURNER
	200	HELMS H D
	200	HELMS MARY
	201	CRAVENS O H
	201	KENTLING JOS M D
	208	WHETSELL L E M D
	209	WHETSELL ED
	209	WILLIAMS M M
	210-214	HUGHES BROS CO [PLANING MILL]
	213	HARRIS C E M D
	222	ATTKISSON H K
	222	LYNCH R J
	223	WALKER C C
	223	WALKER MARY A
	223	X [THIRD INTS]
	223	Y [SE COR] COLLEGE AVE MOTOR & SALES CO
	223	Z [SW COR] W O W [BLDG]
	311	TOURNER F F M D
	315	CARDWELL S P
	319	BIVIN C J
	327	BECK J K
	328	CENTRAL SCHOOL
	335	TELFER WM REV
	342	DAVIS ALEX

CARON DIRECTORY CO

BLOOMINGTON	1913-14	**S COLLEGE AVE**
	125	HENSLEY & SNODDY [FURNITURE AND ICE]
	125	X [NE COR] HOTEL TOURNER
	125	Y [FOURTH INTS]
	200	HELMS MARY
	200	JOHNSON LESLIE
	201	BURGMAN C P

202	GARNSEY W C
208	WHETSELL L E M D
209	WHETSELL EDW
210-214	HUGHES BROS [PLANING MILL]
213	HARRIS C E M D
222	ATTKISSON H K
222	SPENCER D A
223	WALKER I W
223	X [THIRD INTS]
223	Y [SE COR] COLLEGE AV GARAGE
223	Z [SW COR] BLOOMINGTON ARMORY
303	SMALLWOOD EDW
303	SMILEY C S
305	PARROTT J G
311	TOURNER F F M D
315	BIERLY O A
315	ROBERTSON K M
319	CARLETTE SAML
319	FUNK ALBERT
319	HAWKINS SARAH
327	BECK J K
328	CENTRAL SCHOOL
335	TELFER WM REV
343	HENSLEY J B

Comment: No coverage available for Bloomington prior to 1913.

City Directory Standard Report

Target Property:

W 3rd St,

Bloomington, IN 47404

Prepared For:
BCA Environmental-Indianapolis

Order #: 125529

Project #: 19-132

Date: 4/30/2019

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2016

W 3RD ST

1	STREET BEGINS	
322	FOX BOYD A	
322	FOX'S CYCLE SALES [MOTORCYCLES & MOTOR SCOOTERS]	
409-411	NO CURRENT LISTING (3 HSES)	
413	MACK JENNY	3
413	NO CURRENT LISTING	4
413	X [S ROGERS ST INTS]	
508	MCGRATH COLIN T	
511	NO CURRENT LISTING	
515	NO CURRENT LISTING	
516	MCDOWELL JOHN H	
516	MCDOWELL MICHAEL	
522	MCKINNEY BARBARA E	
522	MCKINNEY ROSS	
524	AUSTIN ANITA	
524	AUSTIN CONNIE J	
525	MURRYAY PATRICK J & GLENDA E	
525	X [S JACKSON ST INTS]	
608	BAUER & DENSFORD [ATTORNEYS]	
608	FRETAG PAIGE	

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2011

W 3RD ST

1	STREET BEGINS	
322	FOX BOYD A	
322	FOX'S CYCLE SALES [MOTORCYCLES & MOTOR SCOOTERS]	
409	ROBERTSON JOSH G	
411	REYS INES	2

	411	X [S ROGERS ST INTS]	
	508	PURTLEBAUGH MELODY J	
	511	NO CURRENT LISTING	
	515	SHREVE GENE R & MARGUERITE R	
	516	GLUSHKO PATRICIA A	
	516	MCDOWELL JOHN H	
	522	MCKINNEY BARBARA E	
	524	AUSTIN CONNIE J	
	525	MURRAY PATRICK J & GLENDA E	
	525	X [S JACKSON ST INTS]	
	608	DENSFORD THOMAS E	

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2006 **W 3RD ST**

1	STREET BEGINS	
1	W [E 3RD ST INTS]	
1	X [S WALNUT ST CONTINUES]	
1	Y [S COLLEGE AVE INTS]	
1	Z [RAILROAD CROSSES]	
322	FOX BOYD A	
322	FOX'S CYCCLE SALES [MOTORCYCLE & MOTOR SCOOTERS]	
322	X [S MADISON ST INTS]	
409	ROBERTSON JOSH G	
409	SARAH RACHEL W	
411	CRAGO CHRIS	
411	REYS INES	2
411	X [S ROGERS ST INTS]	
508	PURTLEBAUGH MELODIE J	
511	NO CURRENT LISTING	
515	SHREVE GENE R & MARGUERITE R	
516	MCDOWELL JOHN H	
522	MCKINNEY BARBARA E	

	524	AUSTIN CONNIE J
	525	MURRAY PATRICK J & GLENDA E
	525	X [S JACKSON ST INTS]
	525	Y [S JACKSON ST CONTINUES]
	608	BAUER & DENSFORD [ATTORNEYS]
	608	CARROLL PATRICK [ATTORNEYS]

R.L. POLK & CO.

BLOOMINGTON-MONROE COUNTY 2001 **W 3RD ST**

1	STREET BEGINS
100	SIMONS TINA M
100	U [E 3RD ST BEGINS]
100	V [S WALNUT ST BEGINS]
100	W [S COLLEGE AVE ENDS]
100	X [RAILROAD CROSSES]
100	Y [S MORTON ST BEGINS]
100	Z [S MADISON ST ENDS]
409	DONDERI ANDREA
411	MULTI TENANT RESIDENTIAL
411	X [S ROGERS ST ENDS]
508-511	NOT VERIFIED (2 HSES)
515	COUNCIL OF NEIGHBORHOOD ASSOCIATIONS [PROFESSIONAL ORGN]
515	STURBAUM WILBERT B
515	STURBAUM WILLIAM
516	GLUSHKO PAT
516	MCDOWELL JOHN H
522	GOETZE BARBARA
524	AUSTIN CONNIE J
525	MURRAY G E
525	MURRAY PATRICK
525	X [S JACKSON ST ENDS]
608	GARROLL PATRICK D

		608	TYALOR BAURER & DENFFORD [LEGAL SERV]
R.L. POLK & CO.			
BLOOMINGTON	1996	**W 3RD ST**	
		1	STREET BEGINS
		1	X [S COLLEGE AV INTS]
		320	FOX' CYCLE SALES & SERVICE [ADDL SP]
		322	FOX'S CYCLE SALES
		322	X [S MADISON INTS]
		409	STOHHR NATHAN
		411	APARTMENTS
		411	X [S ROGERS INTS]
		508	FOSTER BRUCE E
		508	WANG HUI
		508	ZHENG YFWEI
		511	NOT VERIFIED
		515	STURBAUM BILL & HELEN
		516	MC DOWELL JOHN H & PATRICIA
		522	GOETZE BARBARA
		524	AUSTIN CONNIE J
		525	MURRAY PATRICK J & GLENDA
		525	X [S JACKSON INTS]
		616	SCHELLHAMMER BRIAN
R.L. POLK & CO.			
BLOOMINGTON	1991	**W 3RD ST**	
		1	STREET BEGINS
		1	X [S COLLEGE AV INTS]
		320	FOX'S CYCLE SALES & SERVICE [ADDN SP]
		322	FOX'S CYCLE SALES & SERVICE
		322	X [S MADISON INTS]
		409	DEMSKY D
		411	APARTMENTS

		420	VACANT
		420	X [S ROGERS INTS]
		508	STUDT HOUSING
		511	NO RETURN
		515	STURBAUM WM
		516	MC DOWELL JOHN H
		522	GOETZE BARBARA
		524	AUSTIN CONNIE J
		525	FAVELA JOSE M
		525	X [S JACKSON INTS]
		610	FIGG SARAH R MRS

R.L. POLK & CO.

BLOOMINGTON	1986	**W 3RD ST**	
		1	STREET BEGINS
		1	X [S COLLEGE AV INTS]
		1	Y [C I & L RY CROSSES]
		320	FOX'S CYCLE SALES [ADDA SP]
		322	FOX'S CYCLE SALES
		322	X [MONON RR CROSSES]
		322	Y [S MORTON INTS]
		409	DEMSKY D
		410	BARTHEL LUCILLE C
		411	APARTMENTS
		420	ALONSO JULIO E
		420	X [S ROGERS INTS]
		508	HART A N
		511	NO RETURN
		515	STURBAUM WILBERT
		516	CARMICHAEL GUY
		516 1/2	PATE STELLA
		522	FECHNER M
		524	AUSTIN CONNIE J
		525	JOHNSON M

		525	X [S JACKSON INTS]
		610	FIGG FRED O

R.L. POLK & CO.

BLOOMINGTON	1981	**W 3RD ST**	
		1	STREET BEGINS
		1	X [S COLLEGE AV INTS]
		1	Y [C I & L RY CROSSES]
		301	STOVEPIPE SOUTH [STOVE WOOD]
		305	WAYNE FEED STORE
		321	STUDIO SCHOOL OF FINE ART INC [PNTG INSTR]
		322	FOX'S CYCLE SALES
		322	X [MONON RR CROSSES]
		322	Y [S MORTON INTS]
		409	COOK JUDY
		410	BARTHEL LUCILLE M MRS
		411	APARTMENTS
		420	HUNT LESTER M III
		420	X [S ROGERS INTS]
		508	BURKE MARGT R MRS
		511	STURBAUM CHRISTOPHER
		515	STURBAUM WILBERT
		516	CARMICHAEL GUY
		516 1/2	WATSON JACK
		522	NEWTON BARBARA H
		524	AUSTIN C
		525	PARMER JAN T
		525	X [S JACKSON INTS]
		603	HELD DAVID

R.L. POLK & CO.

BLOOMINGTON	1976	**W 3RD ST**	
		1	STREET BEGINS
		118	VACANT

		118	X [S COLLEGE AV INTS]
		118	Y [CI & L RY CROSSES]
		303	MIDWEST LABORATORIES INC (WHSE)
		303	WAYNE FEED STORE
		321	AMERICAN OPINION BOOKSTORE
		321	WEBER FROSTED FOODS [GRO]
		322	FOX'S CYCLE SALES
		322	X [MONON RR CROSSES]
		322	Y [S MORTON INTS]
		322	Z [S MADISON INTS]
		409	SMALL M S
		410	BARTHEL LUCILLE M MRS
		411	ABNER KENNETH
		420	WOODWARD RAY E
		420	X [S ROGERS INTS]
		508	BURKE MARGT R
		511	DOSKEY HENRY
		515	STURBAUM WILBERT
		516	CARMICHAEL GUY
		522	BEEBE MARK
		524	HOBBS PAULINE E
		525	OPREA TERRY
		525	X [S JACKSON INTS]
		603	LEWIS NAN
R.L. POLK & CO.			
BLOOMINGTON	1971	**W 3RD ST**	
		1	STREET BEGINS
		108	ALICE'S SHOP [USED CLO]
		118	SPIEGEL CATALOG SHOPPING CENTER
		118	X [S COLLEGE AV INTS]
		118	Y [C I & L RY CROSSES]
		302	INDIANA GAS CO (DIST OFC)

		303	BURNS ROY WHOLESALE GROCERY INC
		321	CARTER MARY DISCOUNT PAINT STORE (BR)
		321	WEBER FROSTED FOODS [GRO]
		322	FOX'S CYCLE SALES
		322	X [MONON RR CROSSES]
		322	Y [S MORTON INTS]
		322	Z [S MADISON INTS]
		409	WEBSTER ANN
		410	BARTHEL LUCILLE M MRS
		411	GRASSO NORMA B
		411 1/2	THRASHER JULIE
		420	JOHNS WM
		420	X [S ROGERS INTS]
		508	WRIGHT LESTER
		511	TEMME LLOYD V
		515	STURBAUM WILBERT
		516	CARMICHAEL GUY
		522	REAM JOHN P
		524	HOBBS PAULINE E
		525	VACANT
		525	X [S JACKSON INTS]
		603	VACANT
R.L. POLK & CO.			
BLOOMINGTON	1966	**W 3RD ST**	
		1	STREET BEGINS
		118	SPIEGEL CATALOG SHOPPING CENTER
		118	X [S COLLEGE AV INTS]
		118	Y [C I & L RY CROSSES]
		302	INDIANA GAS & WATER CO (SERVICE BLDG)
		303	BURNS ROY WHOLESALE GROCERY INC
		316	KEY & CYCLE SERVICE REPR SHOP

		316 1/2	KEY & CYCLE SERVICE REPAIR (STGE)
		318	BUSH GORDON SALES MOTORCYCLES
		320	BUSH GORDON SALES (STGE)
		321	CARTER MARY DISCOUNT PAINT STORE (BR)
		321	PLANNED PARENTHOOD ASSN
		321	WEBER FROSTED FOODS GRO
		322	BUSH GORDON SALES (STGE)
		322	X [MONON RR CROSSES]
		322	Y [S MORTON INTS]
		322	Z [S MADISON INTS]
		409	HOBBS PAULINE E MRS
		410	BARTHEL LUCILLE M MRS
		411	LANE ROBT
		411 1/2	VACANT
		420	JOHNSON WM
		420	X [S ROGERS INTS]
		508	WEAVER ELMER E
		511	BARTLETT OLA MRS
		515	STURBAUM WILBERT
		516	ULAND ZENOS E
		522	REAM JACQUELINE J MRS
		524	HUESTON JAMES E
		525	ABRAM JACK K
		525	X [S JACKSON INTS]
		603	WILEY ELIZ L MRS
R.L. POLK & CO.			
BLOOMINGTON	1960	**W 3RD ST**	
		1	STREET BEGINS
		108	CHESTNUT'S FLOOR COVERING [CARPET LAYERS]
		118	SPIEGEL OF IND [MALL ORDER]
		118	X [S COLLEGE AV INTS]

	118	Y [CI&LRY CROSSES]
	302	IND GAS WATER CO (SERV BLDG)
	303	BURNS ROY WHOL GRO INC
	316	KEY & CYCLE SERV [REPR SHOP]
	316 1/2	JOHNSON JOSEPH
	318-20	BUSH GARDEN SLS [MOTOR CYCLES]
	318 1/2	CLARK EDITH
	320 1/2	ARNOLD ELLIS
	321	SPRIGGS DAIRY PRODUCTS INC
	322	VACANT
	322	X [MONON RR CROSSES]
	322	Y [S MORTON INTS]
	322	Z [S MADISON INTS]
	409	ISON ROBT W
	410	BARTHEL LUCILLE M MRS
	411	DENNEY JOHN
	411	EAST LEONARD
	411 1/2	BURKS NETTIE MRS
	420	JOHNSON WM E
	420	X [S ROGERS INTS]
	508	WEAVER ELMER E
	511	BARTLETT OLA MRS
	515	BURKE EDW M
	516	ULAND ZENOS E
	522	ROBERTS GEO E
	524	HUESTON JAS E
	525	ABARAM JACK
	525	BAKER JOHN
	525	X [S JACKSON INTS]
	608	CRAIG E LINGLE

R.L. POLK & CO.

BLOOMINGTON	1955	**W 3RD ST**
	1	STREET BEGINS

108	VACANT
118	BUNTIN'S PLMB & HTG SERV
118	X [S COLLEGE AV INTS]
118	Y [CI&LRY CROSSES]
302	IND GAS & WATER CO (SERV BLDG)
303-13	BURNS ROY WHOL GRO
316	KEY & CYCLE SERV [REPR SHOP]
316 1/2	HAYS ANDREW
316 1/2	KELLY JOS
316 1/2	SHOUTE PAUL
318-20	BUSH GORDON SLS [MOTORYCYCLES]
318 1/2	BASTIN EZRA
321	SPRIGGS DAIRY PRODUCTS
322	VACANT
322	X [MONON RR CROSSES]
322	Y [S MORTON INTS]
322	Z [S MADISON INTS]
409	LAWRENCE ART
410	CAIN OLIVE MRS
411	GOODMAN PAUL E
411 1/2	ISOM ROBT W
420	JOHNS WM E
420	X [S ROGERS INTS]
508	WEAVER ELMER E
511	BARTLETT STOLAR C
515	BURKE EDW M
516	AXSOM EDGAR
516	ULAND ZENOS E
522	ROBERTS GEO E
524	WAMPLER JEWETT O
525	DRAMINS GEO
525	X [S JACKSON INTS]
606	BURTON LAURA

R.L. POLK & CO.

BLOOMINGTON 1950

W 3RD ST

1	STREET BEGINS
100	VACANT
108	DIXON F VICTOR [WATCH REPR]
118	BUNTIN'S PLMBG & HTG SERV
118	X [S COLLEGE AV INTS]
118	Y [CI&LRY CROSSES]
302	IND GAS & WATER CO INC (SUPT'S OFC)
303-13	BURNS ROY WHOLESALE GRO
314	VACANT
316	KEY & CYCLE SERVICE [REPR SHOP]
316 1/2	HAYES ANDREW
316 1/2	HOBBS JOHN
316 1/2	KELLY JOS [CONTR]
318-20	BUSH GORDON SALES [MOTORCYCLES]
318 1/2	DUNCAN HENRY
318 1/2	HOKE LOUIS
321	SPRIGGS DAIRY PRODUCTS INC
322	HOBBS LEONARD
324	UNIVERSITY PEST CONTROL
324	X [S MORTON INTS]
324	Y [S MADISON INTS]
409	STUCKEY MERLIN R
409 1/2	FRYE SAML
410	BARTHEL LUCILLE M MRS
410	CAIN OLIVE MRS
411	MCVEY ROBT W [TRUCKING]
411	SHELTON ELDA MRS
411 1/2	STANCOMBE WARREN
417	BURNS GENE
417	CARDWELL WM B

		420	JOHNS WM E
		420	X [S ROGERS INTS]
		508	STOGSDILL JAS E
		511	BARTLETT STOLAR C
		515	BURKE EDW N
		516	AXSOM EDGAR
		516	ULAND ZENOS E
		522	ROBERTS GEO E
		524	WAMPLER JEWETT O
		525	BOYD JOS V
		525	LANGUELL C DENZIL [ACCT]
		525	X [S JACKSON INTS]
		603	JONES CHAS A [CONTR]

R.L. POLK & CO.

BLOOMINGTON	1945-46	**W 3RD ST**	
		1	STREET BEGINS
		105	GRAHAM MOTOR SAELS CO (AUTO BODY SHOP)
		108	BLOOMINGTON PLANING MILL CO
		108	DIXON F V [WATCH REPR]
		108	WHEELER'S PLUMBING & HEATING SERVICE
		108	X [S COLLEGE AV INTS]
		108	Y [CI&LRY CROSSES]
		303-13	BURNS ROY WHOLESALE GRO
		314	VACANT
		316	WINDSOR BIOLOGY GARDEN
		316 1/2	MATHIS CHAS
		320	BUSH GORDON SALES
		321	MODERN STORAGE & WAREHOUSE
		321	SPRIGGS DAIRY PRODUCTS INC
		322	HOBBS LEONARD
		324	UNIVERSITY PEST CONTROL
		324	X [S MORTON INTS]

	324	Y [S MADISON INTS]
	409	STUCKEY MERLIN R
	410	CAIN OLIVE MRS
	411	COSTER IDA MRS
	411	YOUNG ROBT L
	411 1/2	HALSTED LEROY
	412	HASTINGS KENNETH
	412	SMITH WM H
	420	JOHNS EDW M
	420	JOHNS WM E
	420	X [S ROGERS INTS]
	508	MEREDITH EDW M
	511	HAZEL MAE MRS
	515	BURKE ED M
	516	ULAND ZENOS E
	522	BLAIR CRIT H
	524	WAMPLER JEWETT O
	525	LANGUELL WM T
	525	X [S JACKSON INTS]
	603	JONES CHAS A

CARON DIRECTORY CO

BLOOMINGTON 1938-39 **W 3RD ST**

1	STREET BEGINS
1	X [WALNUT INTS]
107	GRAHAM MOTOR SALES CO [REPR SHOP]
108	MAY C E [LABORATORY]
118	VINT PLUMBING & HEATING CO
118	X [COLLEGE AV INTS]
216	HUGHES BROS CO [WHSE]
216	X [MORTON INTS]
301-303	BURNS ROY [WHOL GROCER]
308	PUBLIC SERVICE CO [PLANT]
312-316	BUSH GORDON [BICYCLE REPR]

312-316	MULTI TENANT RESIDENTIAL
318	VACANT
320	VACANT
321	BAKER & OWENS [WELDERS]
321	BUSH GORDON [USED CARS]
322	BARRETT LETTLIE E
322	SWEARINGEN MABEL
323	SPRIGGS DAIRY PRODUCTS
324	LAWSON DIRECT CREDIT SOCIETY
324	X [MADISON INTS]
407	SPARKS J E
409	GLENDENNING MURIEL
409	STOUTE THOS
409	WARD FLORA MRS
410	CAIN CHAS
411	BAKER ETHEL MRS [PAPERHR]
411 1/2	THORNTON G L
412	VACANT
420	JOHNS E M
420	X [ROGERS INTS]
503	KINNAMAN E L [PAPERHR]
503	MEREDITH E M
511	HAZEL PORTER
515	BURKE E N
516	ULAND Z E
522	PATTON J M
524	WAMPLER J O
525	LANGUELL C C
525	LANGUELL W T
525	X [JACKSON INTS]
603	ELLER I F
603	JONES C A [CONTR]

CARON DIRECTORY CO

BLOOMINGTON	1934-35	**W 3RD ST**	
		1	STREET BEGINS
		1	X [WALNUT INTS]
		107	GRHAAM MOTOR SALES CO [REPR SHOP]
		108	MAY C E [LABORATORY]
		118	VINT PLUMBING & HEATING CO
		118	X [COLLEGE AV INTS]
		216	HUGHES BROS CO [WHSE]
		216	X [MORTON INTS]
		301	BURNS ROY [WHSE]
		301	DENNY MOTOR TRANSFER CO
		308	PUBLIC SERVICE CO [PLANT]
		312-316	BUSH GORDON [BICYCLE REPR]
		312-316	MULTI TENANT RESIDENTIAL
		318	VACANT
		320	WATZEK SAW SERVICE
		321	FULWIDER LUMBER CO
		322	CARR VELLA [LUNCH]
		322	X [MADISON INTS]
		409	BURTON A M
		410	CAIN CHAS
		411	BAXTER HAROLD
		411	MAY E A
		411 1/2	REYNOLDS FRED
		412	JONES G C
		412	LAWSON A C
		420	JOHNS E M
		420	X [ROGERS INTS]
		508	KINNAMAN E L [PAPERHR]
		508	MEREDITH E M
		511	HAZEL PORTER
		515	BURKE N
		522	PATTON J M

		524	WAMPLER JEWETT
		525	LANGUELL C C
		525	LANGUELL W T
		525	X [JACKSON INTS]
		603	ELLER I F
		603	GASTINEAU L G
CARON DIRECTORY CO			
BLOOMINGTON	1931-32	**W 3RD ST**	
		1	STREET BEGINS
		1	X [WALNUT INTS]
		107	GRAHAM MOTOR SALES CO [REPR SHOP]
		108	MAY C E [LABORATORY]
		118	VINT PLUMBING CO
		118	X [COLLEGE AV INTS]
		216	HUGHES BROS CO [WHSE]
		216	X [MORTON INTS]
		308	PUBLIC SERVICE CO [PLANT]
		312-316	BUSH GORDON [BICYCLE REPR]
		312-316	STOUTE STANLEY
		318	VACANT
		320	WATZEK SAW SERVICE
		321	FULWIDER LUMBER CO
		322	WENZEL P P [CONFECTR]
		322	X [MADISON INTS]
		409	HEACOX ORVILLE
		410	CAIN CHAS
		411	ROBINSON DAISY MRS
		411 1/2	DELANEY EUGENE
		411 1/2	MCCRACKEN W G
		412	NORMAN FRED
		412	THRASHER HELEN MRS
		420	JOHNS E M
		420	X [ROGERS INTS]

508	MEREDITH E M
511	HAZEL PORTER
515	BURKE E N
516	BALES S F
522	PATTON J M
524	MORRISON ROY
525	LANGUELL C C
525	LANGUELL W T
525	X [JACKSON INTS]
603	ELLER I F
603	GASTINEAU L G

CARON DIRECTORY CO

BLOOMINGTON 1927-28 **W 3RD ST**

1	STREET BEGINS
108	MAY CLARENCE LABORATORY
118	SEWER CONSTRUCTION WORKS
118	STANDARD OIL FILLING STATION
118	THOMAS VINT'S PLUMBING & HEATING CO
118	X [COLLEGE INTS]
118	Y [MORTON INTS]
314	HOLLAND FURNACE CO
316	BUSH GORDAN
321	FULWIDER LUMBER CO
322	ROSS STANLEY
322	STANSBURY JAMES
322	X [MADISON INTS]
410	CAIN CHARLES
411	WALRAVEN WILLIAM H
411 1/2	TREADWAY CLARA
412	BOLIN JOHN
412	EADS LESLIE
412	SPURGIN ALBERT
412	THOMPSON LYDIE E

	420	BURNS LEROY
	420	X [ROGERS INTS]
	508	STURDEVANT WESLEY
	511	SAYER W E
	515	BURKE E N
	516	HARDY JOE
	522	YOUNG CURTIS W
	524	DILMAN O L
	525	CHENOWETH ISABELLE
	525	LANGUELL WILLIAM T
	525	X [JACKSON INTS]
	603	ELLER ISAAC

CARON DIRECTORY CO

BLOOMINGTON 1922-23 **W 3RD ST**

1	STREET BEGINS
1	X [WALNUT INTS]
107-111	ARMORY BUILDING
107-111	INDIANA NAT GUARD
112	PIPES G G [BLKSMITH]
114	EADS C E
114	EAST E N
114	X [COLLEGE AV INTS]
212	YOUNG G E
213	THISLER O E [EXPRESS]
216	HUGHES BROS CO [WAREROOM]
216	X [MORTON INTS]
300	JOHNSON NANNIE MRS
300	MCGLOTHLIN CHAS
312	VACANT
318	BOLIN J W
321	FULWIDER LUMBER CO THE
322	GRAY A M
322	X [MADISON INTS]

410	CAIN CHAS
411	BENSON W E
411 1/2	STEVENS DORA
412	JOHNS W E
412	SMITH MARY E [NURSE]
412	SMITH SALLIE A [DRESSMKR]
420	JOHNS E M
420	X [ROGERS INTS]
508	MEREDITH E M
511	HAZEL PORTER
515	BURKE E N
516	GILLHAM JAS
522	STEPHENS G C
522	YOUNG C W
524	DILLMAN O L
525	HUDDLESTON W H
525	X [JACKSON INTS]
608	BYERS O C
608	STEELE H S
608	X [FAIRVIEW INTS]

CARON DIRECTORY CO

BLOOMINGTON 1916-17 **W 3RD ST**

1	STREET BEGINS
1	X [WALNUT INTS]
109-111	VACANT
112	PIPE G G [BLKSMITH]
114	AETNA LIFE INS CO
114	HANOVER FIRE INS CO
114	RADCLIFFE J H
114	X [COLLEGE AV INTS]
212	LANGLY MARGARET [DRESSMKR]
212	LANGLY MILTON
213	COLLINS J C

	216	HUGHES BROS CO [WAREROOM]
	216	X [MORTON INTS]
	300	ARNOLD HUGH
	300	LEMMONS J H
	312	WALKER G W [FURN REPR]
	318	HENDRICKS JOHN
	321	FULWIDER W A CO [LUMBER]
	322	TOSTI CHAS
	322	X [MADISON INTS]
	410	CAIN CHAS
	411	AGNEW J W
	411	REID C S [CONTR]
	411 1/2	STEVENS DORA
	412	JOHNS E M [TEAMS]
	420	CHANEY H F
	420	X [ROGERS INTS]
	508	JOHNSON R W
	511	HAZEL PORTER
	515	SZATOWSKI STEPHEN
	516	RICE NANCY E
	516	RUSSELL MARY C MRS
	522	BAILEY J O
	524	EAST E S
	525	FULWIDER J H
	525	X [JACKSON INTS]
	608	STEELE H S
	608	STIMSON F B
	608	X [FAIRVIEW INTS]

CARON DIRECTORY CO

BLOOMINGTON	1913-14	**W 3RD ST**
	1	STREET BEGINS
	1	X [WALNUT INTS]
	109-111	ELGAR T H [LIVERY]

114	SOUDERS I W
121	SMILEY GILBERT
121	WHARTON LUELLA
121	X [COLLEGE AV INTS]
212	LANGLY MARGARET
213	BOTTS C C
216	HUGHES BROS [WAREROOM]
216	X [MORTON INTS]
300	LAZELL F H
300	LAZELL R A
300	LAZELL W A
312	BROWN N P [CABINETMKR]
318	BUCHANAN J W
321	FULWIDER W A CO [LUMBER]
322	FLEETWOOD LOUIS
322	X [MADISON INTS]
410	CAIN CHAS
411	VACANT
412	BILLMYER J D
420	JOHNS E M [TEAMS]
420	X [ROGERS INTS]
508	BINKLEY E M
515	BURKE E N
516	RICE NANCY E
516	RUSSELL MARY C MRS
525	FULWIDER J H
525	X [JACKSON INTS]
608	CHANEY H F
608	STEELE H S
608	X [FAIRVIEW INTS]

Comment: No coverage available for Bloomington prior to 1913.

ATTACHMENT 2

PHASE II
ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 South College Avenue
Bloomington, IN

July 3, 2019

BCA Project No. 8131/19-146

BCA Environmental Consultants, LLC

7202 E 87th St., Suite 110
Indianapolis, IN 46256

224 W Jefferson Blvd, Suite 204
South Bend, IN 46601

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BCA Environmental Consultants, LLC
AIR • WATER • SOLID WASTE • BROWNFIELDS • REMEDIATION SERVICES

PHASE II
ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 South College Avenue
Bloomington, IN 47404

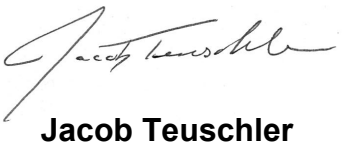
July 3, 2019

BCA Project No. 8131/19-146

Prepared For:
City of Bloomington
Cooperative Agreement No. BF-00E02280

Respectfully Submitted by:
BCA Environmental Consultants, LLC

Rodney A. Manny
Field Geologist



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List of Abbreviations

B(a)p	Benzo(a)pyrene
BCA	BCA Environmental Consultants, LLC
BGS	Below Ground Surface
CAC	Also, CA&C - Coal Ash & Cinders
CAHs	Chlorinated Aliphatic Hydrocarbons
CrVI	Hexavalent chromium
CVOCs	Chlorinated Volatile Organic Compounds
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GPM	Gallons per Minute
GPR	Ground Penetrating Radar
GPS	Global Positioning System
GW	Groundwater
HASP	Health and Safety Plan
HDPE	High Density Polyethylene
IDEM	Indiana Department of Environmental Management
LCS	Laboratory Control Standard
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyl
PID	Photo-Ionization Detector
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RCG	Remediation Closure Guide
RCG ESL	Excavation Screening Level (Soil)
RCG ISL	Commercial/Industrial Direct Contact Screening Level (Soil)
RCG MTGW	Migration to Groundwater Screening Level (Soil)
RCG RSL	Residential Direct Contact Screening Levels (Soil)
RCG RGSL	Residential Groundwater Screening Level (Groundwater)
RCG VESL	Vapor Exposure Screening Levels (Soil Gas, Indoor Air)
RCG VIGWSL	Vapor Intrusion Groundwater Screening Levels
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RPD	Relative Percent Difference
RoW	Right of Way
SAP	Sampling and Analysis Plan
SLs	Screening Levels
SOP	Standard Operating Procedures
SVOCs	Semi-Volatile Organic Compounds
ug/kg	micrograms per kilogram
ug/L	micrograms per Liter
USCS	Unified Soil Classification System
USTs	Underground Storage Tanks
VFC	IDEM Virtual File Cabinet
VOCs	Volatile Organic Compounds
WHPA	Well Head Protection Area

1.0 INTRODUCTION

BCA Environmental Consultants, LLC (BCA) was requested by Mr. Brian Payne, Assistant Director, Office of Economic and Sustainable Development, City of Bloomington, Indiana to perform a Phase II Environmental Site Assessment (ESA) of the commercial building property located at 216 S. College Ave. in Bloomington, IN (Subject Site). This report is prepared for the City of Bloomington and is funded through a U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement No. BF-00E02280). The following report presents the information obtained during the investigation and provides conclusions and recommendations based on the information.

The Subject Site is comprised of three (3) parcels totaling approximately 1.7 acres of land that is situated within the City of Bloomington. The surrounding area is mixed use commercial and municipal properties. The Subject Site is located on the west side of College Avenue between 3rd and 4th Streets (**Figure 1**). The Subject Site is currently occupied.

A Phase I ESA of the Subject Site was conducted for the City of Bloomington by BCA and was dated May 29, 2019. The Phase I ESA was funded through the U.S. EPA Brownfield Assessment Grant to the City of Bloomington. The Phase I ESA identified the following recognized environmental conditions (RECs) at the Subject Site:

- The historical presence of a rail spur on the western portion of the Subject Site along with coal storage piles.
- The historical presence of two gasoline filling stations that operated on the north-central and north-eastern portions of the Subject Site from the 1920s through at least the late 1940s.
- The historical presence of two (2) battery and ignition service stations in the north-central portion of the Subject Site from the 1920s through at least the late 1940s;
- Vulcanizing activities, reported to historically have been present on the Subject Site;
- The presence of a trench drain and suspected oil/water separator (or grease trap) observed on the northwest portion of the Subject Site..

The purpose of the Phase II ESA was to implement the recommendations of the Phase I ESA and investigate the identified RECs to confirm the presence or absence of contaminants. The scope of work was not sufficient to determine the extent and magnitude of contamination, if it is present.

2.0 METHODOLOGY

The investigation procedures will follow BCA's Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the IDEM 2012 Remediation Closure Guide (RCG), regulations and industry-accepted practices. Investigation results are compared to RCG residential closure levels (RCLs) and industrial closure levels (ICLs) from the RCG Appendix A, Table A-6: 2019 Screening Levels.

2.1 Sampling and Analysis Plan and Health and Safety Plan

A site-specific SAP and HASP were prepared for the Subject Site prior to Phase II site activities and were approved by the EPA Region V Brownfield Program. Unless otherwise noted, the plan and procedures followed the SAP. A copy of the SAP and HASP is provided in **Appendix A**.

2.2 Geophysical Survey

A limited geophysical survey was conducted for BCA by American Locating Service at the Subject Site on May 13, 2019, prior to commencing drilling activities, to identify the locations of any unknown and buried utilities. The survey included GPR scans of areas of interest and near the proposed borings to identify any potential buried utility or other sub-surface anomalies. All detected utilities and all linear anomalies were marked with marking paint as possible utility locations. The suspected former UST locations were also marked with paint. The identified subsurface utilities and former UST locations are included on **Figure 2**.

2.3 Drilling Methods

The locations of the borings were selected based on information obtained from the Phase I ESA (BCA 2019) as most likely to be impacted by the identified RECs. The soil probes were advanced by Enviro-Dynamics of Hebron, Indiana using a track-mounted Geoprobe direct-push probe system. The soil probes were installed in 5-foot long sections using a 2.5-inch diameter hollow steel sampling rod that contained a clear acetate liner. The rods were pushed into the soil or driven with a hydraulic hammer. A soil core encased in the disposable acetate liner was advanced through the substratum. The liners allowed the collection of continuous, relatively undisturbed soil cores, minimizing cross-contamination between both stratigraphic horizons and probe locations. The liners containing the soil cores were extracted from the sample rods and were split in the field and sampled by BCA via the screening process described below. The soil was then logged in accordance with the USCS. Specific soil descriptions, screening results and corresponding depths are included on the soil boring logs in **Appendix B**.

Boring locations were recorded by means of a Trimble Nomad 900G sub-3-meter accuracy (Post-processed) GPS receiver. GPS coordinate data table is presented in **Appendix C**.

2.4 Soil Sampling

The subsurface field investigation was conducted May 16th, 2019 for the purpose of determining subsurface environmental conditions on the property.

A total of five (5) soil probes (SP-1 – SP-5) were driven throughout the Subject Site. All probes were designated for groundwater sampling and were to be driven to refusal or into first groundwater at depths of 11 to 25 feet bgs. The probes were placed as indicated on the attached site map (**Figure 2**) with adjustments from the SAP based on site conditions, utility locations, and observations made by BCA personnel upon conducting the utility locate and arrival at the Subject Site.

Soil cores were collected continuously throughout the depth of each of the probes. The soil cores were field screened and logged as described below, and two (2) soil samples from each probe were analyzed for VOCs; at least two (2) samples from each probe for SVOCs/PAHs and 14 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium and zinc) and hexavalent chromium. If soil screening did not suggest the presence of VOCs, then soil from the vadose (smear) zone or from the deepest soil probe interval were selected for VOC analysis.

2.5 Soil Vapor Screening

Soil cores collected in acetate liners via the direct-push probing rig were field screened for organic vapors via headspace analysis (i.e. vapor screening). The acetate liners were split open and immediately scanned with a RAE Systems MiniRAE 3000 PID equipped with a 10.6eV bulb calibrated on 100 ppm isobutylene span gas. A representative soil type or the soil horizon with the highest PID reading was collected by means of U.S EPA SW-846 Method 5035a for VOC analysis.

2.6 Groundwater Sampling

Groundwater was sampled from each of the designated probes where measurable amounts of groundwater was encountered using sampling techniques described below. Groundwater samples were analyzed for VOCs, SVOCs/PAHs, 14 metals and hexavalent chromium. Field filtered groundwater samples were collected for follow-up analysis based on the results of the unfiltered samples. Follow-up analysis consisted of one (1) field

filtered sample was analyzed for one metal and one (1) field filtered sample was analyzed for two metals.

Groundwater samples were collected by use of temporary 1" PVC sampling points with 5-foot screens placed in the three (3) boreholes (SP-1, SP-2 & SP-3), and 10-foot screens placed in two (2) boreholes (SP-4 & SP-5). Four (4) probes were driven past first groundwater.

Soil probe SP-2 encountered refusal twice before achieving a depth of 8.2 feet when refusal (possibly due to bedrock) was encountered. The temporary sampling point in SP-2 was left overnight, but no groundwater was encountered. SP-1 hit refusal at a depth of 13.34 feet; SP-3 was driven to a depth of 10.38 feet; SP-4 was driven to a depth of 10.92 feet; SP-5 was driven to a depth of 18.76 feet.

Temporary groundwater sampling points were left for at least 4 hours before sampling. With the exceptions described below, groundwater was purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (reformatted June 6, 2012) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, and Oxygen Reduction Potential) were monitored and recorded at each sampling point during purging until at least three (3) parameters have stabilized. Micro-Purge sampling was conducted with dedicated HDPE tubing and a non-contact stainless steel submersible bladder pump equipped with a polyethylene bladder. If groundwater monitoring parameters did not stabilize, a sample was collected regardless, and a note recorded in the sample log. Field filtered samples were collected by passing the groundwater through a dedicated, disposable in-line 10-micron (um) cartridge filter. Approximately 1.5 to 1.75 gallons of water was purged prior to sampling the groundwater at each location. Groundwater sampling logs are included in **Appendix D**.

Low-Flow Sampling Exceptions:

Due to shallow refusal in SP-2 no groundwater water was encountered in this location. Also, due to poor recharge in SP-3, measured water levels were below the top of the bladder pump, preventing water level readings from being taken during low-flow purging. The sample point went dry while purging, so the sample point was given time to recharge and pumped dry a second time. SP-3 was sampled after being pumped dry twice. The total drawdown from static level at SP-1 and SP-5 was greater than 0.10 foot (due to only moderate permeability), but otherwise the probes met low-flow conditions.

3.0 RESULTS

Soil descriptions and the results of field screening are presented on the soil boring logs in **Appendix B**. Groundwater sample logs with field parameters are presented in **Appendix D**. The analytical laboratory reports and chain-of-custody forms are presented in **Appendix E**, and laboratory results are summarized in Section 3.3 – 3.4 below and in **Tables 1 - 8**.

3.1 Physical Setting/Subsurface Conditions

As estimated from the U.S. Geologic Survey 7.5 Minute Series Topographic Quadrangle Map for Bloomington, Indiana (2013; C.I. = 10 feet), the elevation of the Subject Site is approximately 750 feet above mean sea level, relative to the North American Vertical Datum of 1988. The Subject Site is situated on relatively level terrain. Surface drainage in the overall area of the Subject Site is generally to the south-southeast toward Clear Creek located 0.4 miles south southeast of the Subject Site. However, surface drainage at the Subject Site flows to the adjacent streets and municipal storm water system.

3.1.1 Soils

The soil under the Subject Site is mapped as belonging to one (1) soil type:

- Udorthents are human-altered and human-transported (HAHT) soils and materials. HAHT soils include those intentionally and substantially modified by humans for specific purposes (e.g., terraced agriculture, building support, mining, transportation, etc.). They do not include soils modified through standard agricultural practices (such as shallow plowing, liming, and fertilization) or farmed soils with unintended wind and water erosion (Web Soil Survey).

3.1.2 Surficial Geology

The area of the Subject Site is underlain by approximately 5 to 15 feet of unconsolidated deposits that lie on Mississippian age bedrock (Fenelon, et al, 1994). Total thickness of unconsolidated deposits overlying bedrock in Monroe County is commonly reported as 6 to 25 feet. The unconsolidated sediments consist of Terra Rossa – red, clayey regolith, 5 to 50 feet thick, over limestone of Middle Mississippian age.

3.1.3 Bedrock Geology

The Subject Site and surrounding area lie within the Mitchell Plateau physiographic unit within the Southern Hills and Lowlands regional physiographic province (Gray, 2000). The Mitchell Plateau is bounded by the older rocks of Norman Upland on the east and the younger rocks of the Crawford Upland to the west. The Mitchell Plateau (also referred to as the Mitchell Plain) is a karst area in Indiana of relatively low relief. An extensive underlying cave system developed in Mississippian age limestone bedrock. Surface

drainage is rare due to most streams in the area disappearing into caves or joints within the rock.

Bedrock at the Subject Site is reported to be the Mississippian-aged Sanders Group (that includes the Harrodsburg and Salem Limestones). The Sanders Group consists of a variety of carbonate rocks in complex facies relationships. The Ramp Creek and Muldraugh Formations at the base of the group are dominantly a mixture of fine-grained dolomite and limestone. Cherty and siliceous intervals are common, and minor amounts of siltstone and shale are present. Above that interval in the Harrodsburg Limestone, well-cemented bioclastic calcarenites and calcirudites are dominant over argillaceous limestone, dolosiltites, and shale. The abundance of geodes and chert decreases upward in the group. The Salem Limestone except for the Somerset Shale Member at its base is dominated by porous calcarenite, although it contains a wide variety of other kinds of limestone. (IGWS)

3.1.4 Hydrology

Surface Water

The Subject Site lies within the East Fork White River basin, which has a total drainage area of 5,746 square miles in south-central Indiana. In general, drainage of the Mitchell Plain (including the Subject Site) in Monroe County is considerably different from the rest of the basin; most runoff quickly leaves the surface by entering sinkholes and becoming part of the ground-water system. In the streams that do flow across the Mitchell Plain, some surface water is intercepted by swallow holes and diverted underground into either the groundwater system or subterranean channels. (Gray, 2000) Surface water drainage from the Subject Site flows south towards Clear Creek, located 0.4 mile to the south-southeast.

Unconsolidated Aquifer System

The Subject Site lies in the Dissected Till and Residuum / Unglaciated Southern Hills and Lowlands Aquifer System. Total thickness of unconsolidated deposits overlying bedrock is commonly 6 to 25 feet. Clay material dominates this unconsolidated aquifer system; however, discontinuous sand or gravel deposits are reported. These deposits are commonly 1 to 3 feet thick. Because of low permeability of surface materials, this system is not considered very susceptible to contamination from surface sources. (Maier, 2003)

Bedrock Aquifer System

The Blue River and Sanders Groups occur as the uppermost bedrock aquifer system over most of the west-central portion of Monroe County. Depth to bedrock is generally between 5 and 30 feet. The Blue River and Sanders Groups Aquifer System is not regarded as a major ground-water resource in the county. Static water levels range from 0 feet to 197 feet below land surface but generally between 15 and 75 feet below surface. Areas of shallow bedrock, especially where joints, fractures, and solution features are

present, may allow contamination. These conditions warrant considering the aquifer system as a whole to be susceptible to contaminants introduced at and near land surface. (Maier, 2003)

The City of Bloomington is served by a public water supply. A report pertaining to the adjacent Indiana Gas Company site to the west suggest the groundwater flow direction is to the southeast. (VFC Document #47437557). Based on environmental reports for other nearby sites, local groundwater flow around the Subject Site is to the south-southeast. However, depths of bedrock encountered during the investigation the groundwater at the Subject Site indicate a bedrock slope to the east .

Regional groundwater flow of the area is predominately to the south-southwest in general conformance with surface topography/drainage and the regional attitude of underlying bedrock.

3.1.5 Subject Site Physical Observations

Based on probes advanced on the Subject Site, the soils consist of mostly clays to various depths of 8 – 12 feet bgs. Clays with sandy clay intervals were encountered at depths between 12 – 18 feet. In at least one boring (SP-1) a (more permeable) thin (0.5') layer of clayey sand was encountered above (presumed bedrock) refusal. Bedrock and/or refusal was encountered in all sampling points. Depth to bedrock/refusal was reported between 8.21 ft bgs and 18.76 ft bgs. The bedrock beneath the Subject Site is highly variable in depth between locations. Static water level readings from the temporary groundwater sample points averaged 8.38 feet bgs.

3.2 Laboratory Analysis of Samples

Laboratory analyses were conducted by LSAI Laboratories LLC and PACE Analytical Laboratories of Indianapolis, Indiana. All soil and groundwater samples were stored on ice and/or refrigerated until couriered to the lab. All soil VOC samples were stored on ice immediately after collection and frozen within 24 hours of sampling. Analytical laboratory reports and chain-of-custody documents are included in **Appendix E**.

Not including QA/QC samples, a total of nine (9) soil samples were analyzed for VOCs by EPA SW-846 method 5035A/8260; twelve (12) for SVOCs/PAHs by method 8270/SIM; eleven (11) for 14 metals by method 6010 and 7471. Based upon the initial metals results, six (6) additional samples were analyzed for arsenic (6010).

Not including QA/QC samples, a total of four (4) groundwater samples were analyzed for VOCs by EPA Method 8260, four (4) for SVOCs/PAHs by EPA Method 8270/SIM, and four (4) for 14 metals by methods 6010, 6020, 7470, and three (3) for hexavalent chromium (CrVI) by method 7199. Based on the initial results, one (1) field filtered groundwater sample was analyzed for arsenic (6010) and one (1) field filtered groundwater sample was analyzed for arsenic and lead (6010).

QA/QC samples included both field and laboratory samples. One (1) soil and groundwater field duplicate and MS/MSD samples were collected and analyzed for VOCs, SVOCs/PAHs, 14 metals, and CrVI. Laboratory QA/QC included method blanks, LCS, and internal surrogate standards. For results of QA/QC sampling and analysis see “Data Assessment” in Sections 3.3 and 3.4 below.

3.3 Soil Results

Analytical laboratory reports are included in **Appendix E** and the soil sample analytical results are summarized in **Tables 1 – 4** and on **Figure 3**. Detected analytical concentrations were compared to IDEM’s RCG RSL, ISL, ESL and MTGW soil screening levels (Remediation Closure Guide, Appendix A, Table A-6: 2019 Screening Levels).

VOCs:

One to two soil samples from each of the five (5) probes were selected for analysis for full range VOCs.

Benzene exceeded the RCG MTGW (0.051 mg/kg) in the samples from:

SP-4 (8-9’) (0.819 mg/kg)
SP-4 (9-10.5’) (0.200 mg/kg)
SP-5 (9-11’) (0.100 mg/kg)
SP-5 (9-11’) DUP (0.105 mg/kg)

SP-5 (11-13') (0.177 mg/kg)

Naphthalene exceeded the RCG MTGW (0.11 mg/kg) in the sample from:
SP-4 (8-9') (0.342 mg/kg)

1,2,4-Trimethylbenzene exceeded the RCG MTGW (1.6 mg/kg) in the sample from:
SP-4 (8-9') (12.5 mg/kg)

1,3,5-Trimethylbenzene exceeded the RCG MTGW (1.7 mg/kg) in the sample from:
SP-4 (8-9') (3.59 mg/kg)

PAHs:

Two (2) soil samples from SP-1, SP-2, and SP-3 and three (3) samples from SP-4 and SP-5 were analyzed for PAHs.

Naphthalene exceeded the RCG MTGW (0.11 mg/kg) in the samples from:
SP-1 (3-5') (0.234 mg/kg)
SP-1 (5-7') (0.315 mg/kg)
SP-4 (6-8') (0.221 mg/kg)
SP-4 (8-9') (0.121 mg/kg)
SP-4 (9-10.5') (0.20 mg/kg)
SP-5 (11-13') (0.144 mg/kg)

SVOCs:

Two (2) soil samples from SP-1, SP-2, and SP-3 and three (3) samples from SP-4 and SP-5 were analyzed for SVOCs.

All SVOCs were either below the RCG SLs or were not detected.

Metals:

Two (2) soil samples from SP-1 and SP-2, three (3) from SP-5, and five (5) from SP-3 and SP-4 were analyzed for 14 metals.

Arsenic exceeded the RCG RSL (9.5 mg/kg) in the samples from:
SP-1 (3-5') (12.0 mg/kg)
SP-2 (2-4') (14.2 mg/kg)
SP-3 (2-4') (13.6 mg/kg)
SP-4 (2-4') (18.5 mg/kg)
SP-4 (4-6') (15.1 mg/kg)

Thallium exceeded the RCG RSL (1.1 mg/kg) in the sample from:

SP-1 (3-5') (1.6 mg/kg)

Arsenic exceeded the RCG MTGW SL (5.9 mg/kg) in the samples from:

SP-1 (5-7') (8.2 mg/kg)
SP-3 (0-2') (6.3 mg/kg)
SP-3 (4-6') (8.4 mg/kg)
SP-4 (0-2') (7.7 mg/kg)
SP-4 (6-8') (8.6 mg/kg)
SP-5 (0-2') (6.1 mg/kg)
SP-5 (0-2') DUP (7.5 mg/kg)
SP-5 (2-4') (7.7 mg/kg)
SP-5 (6-8') (6.6 mg/kg)

All other analyzed metals were either below the RCG SLs or were not detected.

Data Assessment:

QA/QC samples collected during the soil sampling included field duplicates, MS/MSD samples and a trip blank. No field equipment blank was collected since only single-use disposable supplies contacted the soil samples. The trip blank was analyzed for VOCs only, while the field duplicates and MS/MSD samples were analyzed for VOCs by method 8260, SVOCs/PAHs by method 8270/SIM, and 14 metals by methods 6010 and 7471. No analytes were detected in the trip blank.

For all but eleven (11) VOCs, fifteen (15) PAHs, and twelve (12) metals both the sample and duplicate were below the detection limit, equating to zero percent (0%) relative percent difference (RPD). For detections in soil field duplicates, the relative percent difference (RPD) ranged from 5% to 139% for 11 VOCs, 36% to 197% for 15 PAHs, and 2% to 162% for 11 metals. Of the duplicate detections, six (6) VOCs and seven (7) metals detections were greater than five times the reporting limit (>5 x RL); including seven (7) detections that had a field duplicate RPD greater than the notice limit of 50% for soil. Thus, 46% of the analyte detections >5 x RL were below the notice limit which does not meets the EPA DQO of at 75%. Thus, the non-homogeneity commonly observed in soil samples affects this sample set.

The MS/MSD sample results were generally within control limits. Some metals analytes were outside control limits due to elevated sample concentrations relative to spike levels or due to sample non-homogeneity common in soil samples. Naphthalene in the VOC range had low recovery suggesting low bias of the sample results. Naphthalene in the PAHs range analysis were higher than the VOC range and should be taken as more reliable. Where outside control limits parameters were confirmed by other QA/QC measures or were for analytes that were not detected or were far below the screening levels. Low antimony recovery suggests that antimony results should be considered

estimated and may be biased low. Laboratory QA/QC samples (method blanks, LCS and surrogate spikes) were within control limits or confirmed by other QA/QC measures.

A Level III QA/QC data package is included with the lab report in **Appendix E**.

3.4 Groundwater Results

Groundwater sample analytical results are summarized in **Tables 5 – 8** and on **Figure 4**. Detected analytical concentrations were compared to IDEM's RCG Residential Groundwater Screening Levels (Remediation Closure Guide, Appendix A, Table A-6: 2019 Screening Levels).

VOCs:

Groundwater samples obtained from four (4) probe locations were analyzed for full range VOCs.

Benzene exceeded the RCG VIGWSL ISL (120 ug/L) in the sample from:
SP-4 (183 ug/L)

Benzene exceeded the RCG VIGWSL RSL (28 ug/L) in the samples from:
SP-5 (34.0 ug/L)
SP-5 DUP (36.1 ug/L)

1-Methylnaphthalene exceeded the RCG RSL (11 ug/L) in the sample from:
SP-4 (12.4 ug/L)

Naphthalene exceeded the RCG RSL (1.7 ug/L) in the sample from:
SP-4 (9.4 ug/L)

No other VOCs were detected above the RCG SLs in the groundwater samples.

PAHs:

Groundwater samples obtained from four (4) probe locations were analyzed for PAHs.

Naphthalene exceeded the RCG RSL (1.7 ug/L) in the sample from:
SP-4 (8.0 ug/L)

No other PAHs were detected above the RCG SLs in any of the groundwater samples.

SVOCs:

Groundwater samples obtained from four (4) probe locations were analyzed for SVOCs.

No SVOCs were detected in any of the groundwater samples.

Metals:

Groundwater samples from four (4) probe locations were analyzed for 14 metals while three (3) probe locations were analyzed for CrVI.

Arsenic exceeded the RCG RGSL (10.0 ug/L) in the samples from:

SP-4 (14.9 ug/L)
SP-5 (12.4 ug/L)
SP-5 DUP (12.1 ug/L)

The field filtered samples from SP-4 and SP-5 was analyzed for arsenic by method 6010. Arsenic was below the RCG RSL in the field filtered sample from SP-4. Arsenic exceeded the RCG RGSL (10.0 ug/L) in the sample from:

SP-5 Field Filtered (10.2 ug/L)

Lead exceeded the RCG RGSL (15.0 ug/L) in the samples from:

SP-3 (33.2 ug/L)
SP-4 (26.4 ug/L)

The field filtered sample from SP-4 was analyzed for lead by method 6010. Due to poor recharge in SP-3, no field filtered sample was obtained for analysis. Lead was below the RCG RSL in the field filtered sample from SP-4.

All other metals were either below the RCG RSLs or were not detected.

Data Assessment:

QA/QC samples collected during groundwater sampling included field duplicates, MS/MSD samples, equipment blanks and a trip blank. The field duplicate, MS/MSD and equipment blanks were analyzed for VOCs by EPA method 8260, SVOCs/PAHs by method 8270/SIM, 14 metals by method 6010, 6020 or 7470, and CrVI by method 7199. The trip blank was analyzed for VOCs only. No VOCs were detected in the trip blank and equipment blank. Trace levels of CrVI were detected in the equipment blank but were below the RCG screening level. Also, naphthalene and zinc were detected in the equipment blank far below the RSL and were flagged by the laboratory as “J-flag”; meaning the estimated concentration is above the adjusted method detection limit and below the adjusted reporting limit.

For all but four (4) VOCs, four (4) PAHs, and seven (7) metals analytes were below detection limits in both the sample and the field duplicate, equating to a zero percent relative difference (0% RPD). For the groundwater duplicate detections, the RPD varied from 1.6% to 7.8% for VOCs, 21% to 122% for PAHs, and 0.2% to 22% for metals. Of the duplicate detections, two (2) VOCs (benzene and isopropyl benzene), two (2) PAHs (1-Methylnaphthalene and 2-Methylnaphthalene), and two (2) metals (barium and nickel) were greater than five times the reporting limit (>5 x RL). Of the six (6) detections >5 x RL, the field duplicate did not have an RPD greater than the notice level of 35%. Thus, 100% of the analyte detections >5 x RL were below the notice limit which meets the DQO

of 75%. Therefore, no indication of non-homogeneity in the groundwater samples was observed.

The overall precision of the sample set may also be evaluated by determining the average RPD of all duplicates with detections >5 x RL. The average RPD of the analyte detections >5 x RL is 11%. These data indicate good precision for the groundwater analyses.

The groundwater MS/MSD sample results were generally within control limits. Where out of control limits, parameters were confirmed by other QA/QC measures and were for parameters not detected in the samples, or if detected, were far below the RCG SLs. Laboratory QA/QC included method blanks, LCS, and surrogate spikes. Laboratory QA/QC results were within control limits.

A Level III QA/QC data package is included with the lab report in **Appendix E**.

4.0 DISCUSSION and CONCLUSIONS

Soil and groundwater sampling for this Phase II ESA was conducted on May 16 and 17, 2019 for the purpose of determining subsurface conditions throughout of the Subject Site. The subsurface investigation included advancing five (5) soil and groundwater probes on the Subject Site at locations that were the most likely to be impacted by the RECs identified in the 2019 Phase I ESA. Soil samples were collected from each boring location, and groundwater was sampled from four (4) probe locations. Soil samples from the probes were analyzed for VOCs, SVOCs/PAHs and 14 Metals. Groundwater samples from the probes were analyzed for VOCs, SVOCs/PAHs, 14 Metals and CrVI.

Laboratory analyses of the submitted samples confirm that the Subject Site soils and groundwater have been impacted by on-site sources. No analytes were found above IDEM RCG SLs except those discussed below.

Soil VOCs – Soil Migration to Groundwater

Soil results show low levels of petroleum constituents (benzene, naphthalene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene) above RCG Soil MTGW in the smear zones at SB-4 (8-10.5') and at SB-5 (9-13'). The highest concentrations of petroleum constituents were detected in areas the 2019 Phase I ESA indicated as likely former petroleum UST pits. This suggests the source is likely from on-site historical uses of the property.

Soil PAHs

Naphthalene exceeds RCG Soil MTGW in shallow samples from SP-1 (3-5') and SP-1 (5-7'). Due to the historical nature of the Subject Site and the shallow depths of these contaminants, the source is likely from on-site historical usage of the property. Naphthalene exceeds RCG Soil MTGW in samples from SP-4 (6-10.5') and SP-5 (11-13'). Due to these sample points being in close proximity to likely former petroleum UST pit areas, the source of contamination is likely on-site and from historical uses of the property.

Soil Metals

Arsenic exceeds the RCG RSL in the shallower sample intervals at SP-1, SP-2, SP-3, and SP-4. Arsenic exceeds the RCG Soil MTGW in SP-1 (5-7'), SP-3 (0-2'), SP-3 (4-6'), SP-4 (0-2'), SP-4 (6-8'), SP-5 (0-2'), SP-5 (0-2') DUP, SP-5 (2-4'), and SP-5 (6-8'). However, the average arsenic concentrations of all 18 soil samples (8.6 mg/kg) and the average of all nine (9) shallow (0-2' and 2-4') soil samples (9.46 mg/kg) are both less than the RCG RSL (9.5 mg/kg) but do exceed the RCG MTGW SL (5.9 mg/kg). Levels of arsenic decreased in deeper samples at SP-3 and SP-4 indicating that arsenic present at shallower depth may not be migrating into deeper soils.

Thallium exceeded the RCG RSL (1.1 mg/kg) in one sample at SP-1 (3-5') at 1.6 mg/kg. This may from historical use of the property and the fill material that was observed in this section of the subsurface. However, that average of all 10 soil samples to a depth of five (5) feet is 0.79 mg/kg which is well below the RSL.

Levels of arsenic up to 9.5 mg/kg (or more) are commonly due to background (USGS 1984), while higher concentrations detected may be due to urban fill or historical activities. Elevated levels of thallium may be due to urban fill or historical site activities. Almost all of the Subject Site is either paved with asphalt/concrete or covered by a building, preventing direct contact and minimizing rainwater infiltration.

Groundwater VOCs

VOCs were found to exceed RGSLs in groundwater samples collected from the Subject Site.

Specifically:

- Benzene exceeded the RCG VIGWSL ISL in the sample from SP-4.
- Benzene exceeded the RCG VIGWSL RSL in the samples from SP-5 and SP-5 Dup.
- 1-Methylnaphthalene and Naphthalene exceeded the RCG RSL in the sample from SP-4.

Benzene, 1-Methylnaphthalene, and Naphthalene are all common petroleum constituents. As mentioned previously and in the 2019 Phase I ESA there was a historical on-site filling station with likely USTs. For this reason, the source is likely from historical on-site sources. The extent of this contamination is unknown.

Groundwater PAHs

Naphthalene exceeded the RCG RSL in one groundwater sample from SP-4. Other PAHs were detected mostly in SP-4 and SP-5 samples, but none exceeded the RCG RSLs.

Groundwater Metals

Arsenic was found above the RGSL in the unfiltered samples collected from SP-4, SP-5, and SP-5 DUP. The filtered sample for SP-5 exceeded the RCG RSL for arsenic. Sediment in the groundwater samples, even the filtered sample of SP-5, may have caused the elevated levels of arsenic. However, given the presence in shallow soil, it cannot be ruled out that the arsenic in SP-5 could be leaching from the soil and dissolving into the groundwater.

Lead exceeded the RCG RSL in the samples from SP-3 and SP-4. The sample from SP-4 had some level of sediment and the filtered sample was below the detection limits for lead. It is likely that the elevated lead in SP-4 is due to suspended sediments in the

groundwater and very little or none is likely to be dissolved in the groundwater. No filtered sample was collected from SP-3 due to poor recharge; however, it is likely that the elevated lead is from suspended sediments in the groundwater and very little or none is likely to be dissolved in the groundwater.

Conclusions:

Based on the discussion above, BCA draws the following conclusions:

Groundwater at the Subject Site has been impacted by petroleum constituents, likely from historical on-site activities/source(s), specifically the former filling station(s). The groundwater probes, SP-4 and SP-5, located on the northeastern section of the Subject Site were most effected. It is unknown if any petroleum constituents have migrated off the Subject Site.

There does not appear to be a potential for vapor migration exposure for the Subject Site or within the surrounding area from the locations sampled. Groundwater was encountered in the temporary wells from 7.46 – 8.95 feet bgs and the samples that exceed the residential and commercial VIGWSL are covered by an asphalt parking lot and at distance from occupied structures. However, the extent of impacts have not been delineated.

Soil arsenic is above the MTGW and RSL and thallium is above the RSL. However, the averages for arsenic and thallium in the shallow soil and for all soil are below the RSLs and are likely mostly due to background. Almost all of the Subject Site is either paved with asphalt/concrete or covered by a building, preventing direct contact and minimizing rainwater infiltration. There is some potential that some of the metals impacts are from urban fill. Groundwater detections arsenic and lead above the RGSLs are likely due to sediment. However, the possibility cannot be completely ruled out that impacts were present and due to migration of arsenic from shallow soils.

5.0 RECOMMENDATIONS

Based on the results of this Phase II ESA conducted at the Subject Site located at 216 South College Avenue in Bloomington, Indiana, BCA recommends:

- Further Investigation of the petroleum constituents on-site and off-site.
- Restrict future land-use through an Environmental Restrictive Covenant (ERC) or another tool to eliminate potential exposure pathways to impacted soil and groundwater.

6.0 REFERENCES

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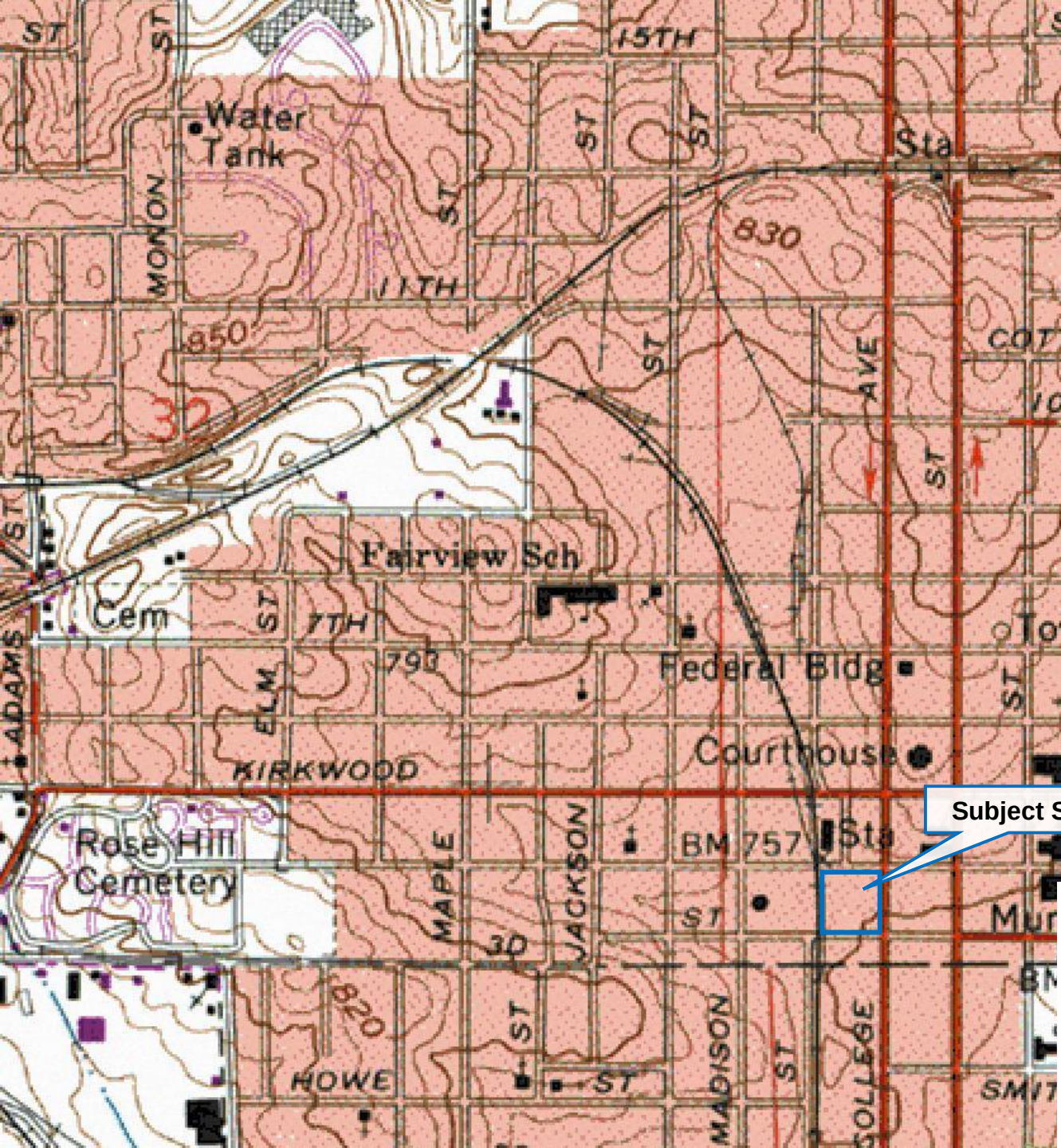
Figures

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN



BCA Environmental Consultants, LLC
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317-578-4233

APPROXIMATE SCALE: NTS

DRAWN BY: RAM

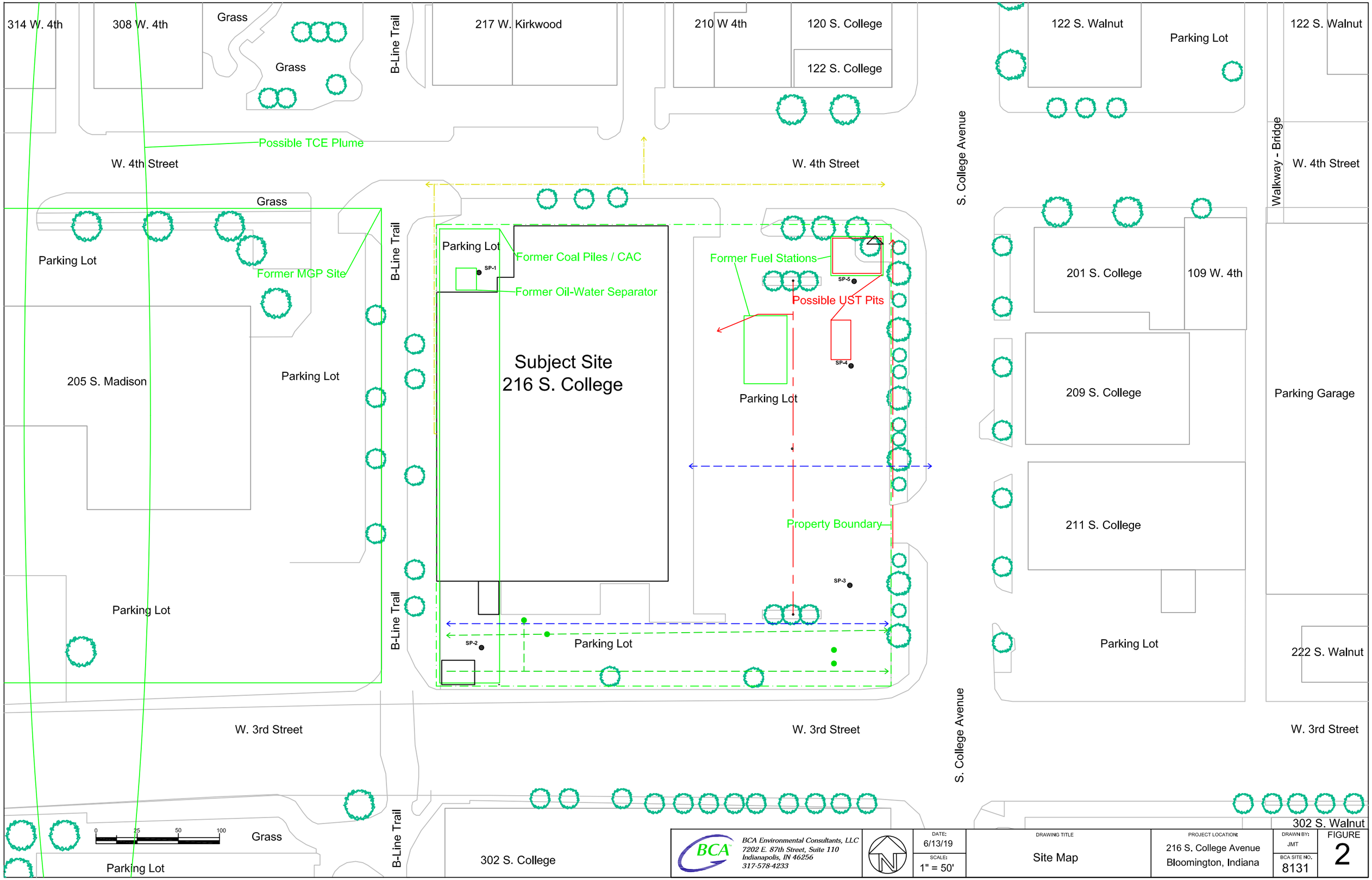
DATE: 4/29/2019

BCA PROJECT NO.: 19-132

DRAWING TITLE: Site Location

PROJECT LOCATION: Commercial Building
216 S. College Avenue
Bloomington, Indiana

FIGURE 1



BCA Environmental Consultants, LLC
7202 E. 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

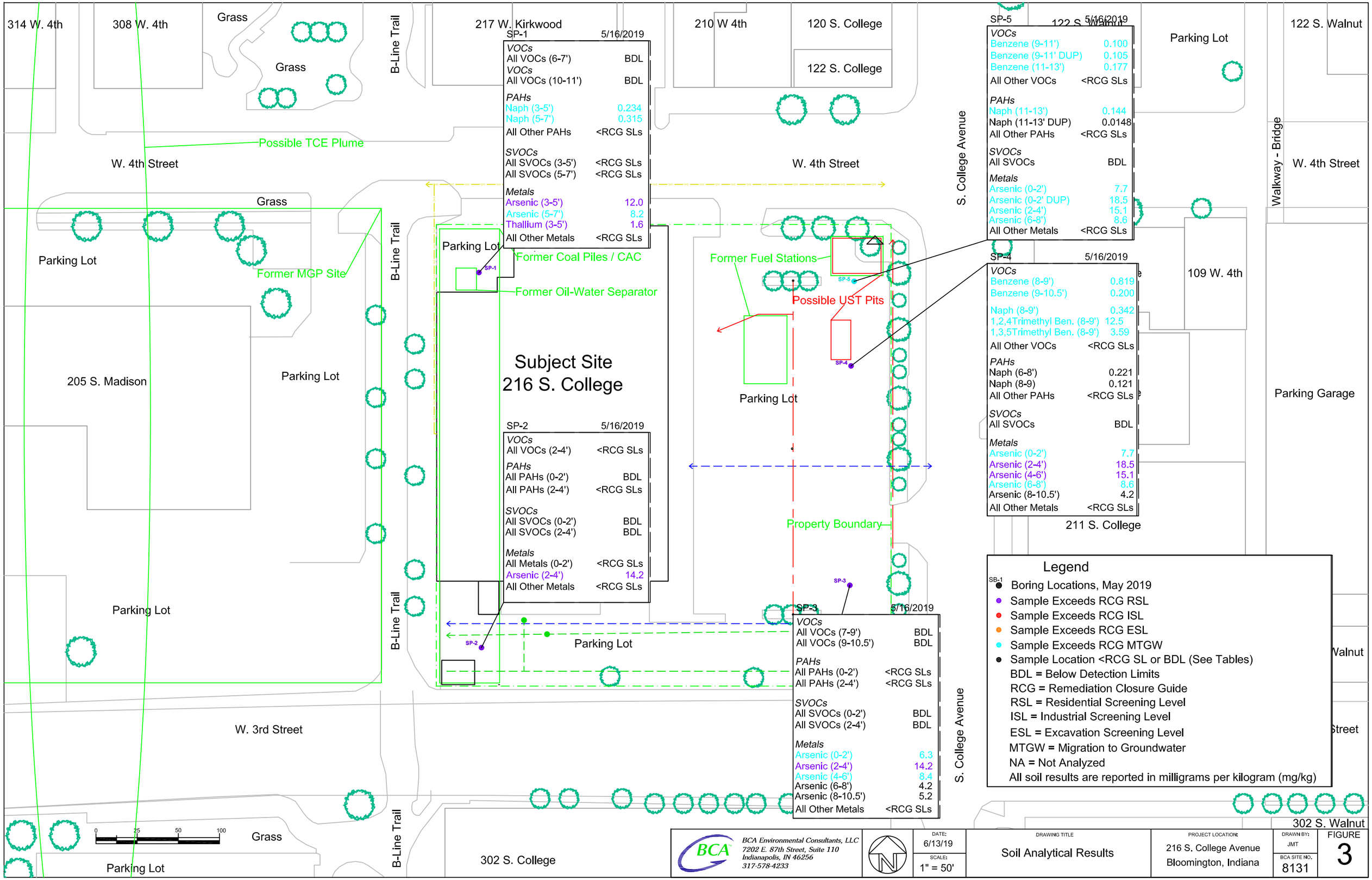
DATE: 6/13/19
SCALE: 1" = 50'

DRAWING TITLE: Site Map

PROJECT LOCATION: 216 S. College Avenue Bloomington, Indiana

DRAWN BY: JMT
BCA SITE NO. 8131

FIGURE 2



SP-1 5/16/2019

VOCs	
All VOCs (6-7')	BDL
VOCs	
All VOCs (10-11')	BDL
PAHs	
Naph (3-5')	0.234
Naph (5-7')	0.315
All Other PAHs	<RCG SLs
SVOCs	
All SVOCs (3-5')	<RCG SLs
All SVOCs (5-7')	<RCG SLs
Metals	
Arsenic (3-5')	12.0
Arsenic (5-7')	8.2
Thalllium (3-5')	1.6
All Other Metals	<RCG SLs

SP-2 5/16/2019

VOCs	
All VOCs (2-4')	<RCG SLs
PAHs	
All PAHs (0-2')	BDL
All PAHs (2-4')	<RCG SLs
SVOCs	
All SVOCs (0-2')	BDL
All SVOCs (2-4')	BDL
Metals	
All Metals (0-2')	<RCG SLs
Arsenic (2-4')	14.2
All Other Metals	<RCG SLs

SP-3 5/16/2019

VOCs	
All VOCs (7-9')	BDL
All VOCs (9-10.5')	BDL
PAHs	
All PAHs (0-2')	<RCG SLs
All PAHs (2-4')	<RCG SLs
SVOCs	
All SVOCs (0-2')	BDL
All SVOCs (2-4')	BDL
Metals	
Arsenic (0-2')	6.3
Arsenic (2-4')	14.2
Arsenic (4-6')	8.4
Arsenic (6-8')	4.2
Arsenic (8-10.5')	5.2
All Other Metals	<RCG SLs

SP-5 5/16/2019

VOCs	
Benzene (9-11')	0.100
Benzene (9-11' DUP)	0.105
Benzene (11-13')	0.177
All Other VOCs	<RCG SLs
PAHs	
Naph (11-13')	0.144
Naph (11-13' DUP)	0.0148
All Other PAHs	<RCG SLs
SVOCs	
All SVOCs	BDL
Metals	
Arsenic (0-2')	7.7
Arsenic (0-2' DUP)	18.5
Arsenic (2-4')	15.1
Arsenic (6-8')	8.6
All Other Metals	<RCG SLs

SP-4 5/16/2019

VOCs	
Benzene (8-9')	0.819
Benzene (9-10.5')	0.200
Naph (8-9')	0.342
1,2,4Trimethyl Ben. (8-9')	12.5
1,3,5Trimethyl Ben. (8-9')	3.59
All Other VOCs	<RCG SLs
PAHs	
Naph (6-8')	0.221
Naph (8-9)	0.121
All Other PAHs	<RCG SLs
SVOCs	
All SVOCs	BDL
Metals	
Arsenic (0-2')	7.7
Arsenic (2-4')	18.5
Arsenic (4-6')	15.1
Arsenic (6-8')	8.6
Arsenic (8-10.5')	4.2
All Other Metals	<RCG SLs

Legend

- SB-1 Boring Locations, May 2019
- Sample Exceeds RCG RSL
- Sample Exceeds RCG ISL
- Sample Exceeds RCG ESL
- Sample Exceeds RCG MTGW
- Sample Location <RCG SL or BDL (See Tables)

BDL = Below Detection Limits
RCG = Remediation Closure Guide
RSL = Residential Screening Level
ISL = Industrial Screening Level
ESL = Excavation Screening Level
MTGW = Migration to Groundwater
NA = Not Analyzed
All soil results are reported in milligrams per kilogram (mg/kg)

BCA Environmental Consultants, LLC
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DATE: 6/13/19
SCALE: 1" = 50'

DRAWING TITLE: Soil Analytical Results

PROJECT LOCATION: 216 S. College Avenue, Bloomington, Indiana

DRAWN BY: JMT
BCA SITE NO. 8131

FIGURE 3

314 W. 4th
308 W. 4th
Grass
Grass
B-Line Trail
217 W. Kirkwood
210 W 4th
120 S. College
122 S. College
122 S. Walnut
Parking Lot
122 S. Walnut
Walkway - Bridge
W. 4th Street
Possible TCE Plume
W. 4th Street
W. 4th Street
Grass
Parking Lot
Former MGP Site
B-Line Trail
Parking Lot
Former Coal Piles / CAC
Former Oil-Water Separator
Former Fuel Stations
Possible UST Pits
Parking Lot
Subject Site
216 S. College
205 S. Madison
Parking Lot
Parking Lot
Parking Garage
201 S. College
109 W. 4th
209 S. College
211 S. College
Property Boundary
Parking Lot
B-Line Trail
Parking Lot
W. 3rd Street
W. 3rd Street
S. College Avenue
B-Line Trail
Grass
Parking Lot
302 S. College
302 S. Walnut

SP-1 5/17/2019

VOCs	BDL
PAHs	BDL
SVOCs	BDL
Metals	<RCG SLs

SP-5 5/17/2019

VOCs	
Benzene	34.0
Benzene (DUP)	36.1
All Other VOCs	<RCG SLs
PAHs	<RCG SLs
SVOCs	BDL
Metals	
Arsenic	12.4
Arsenic (DUP)	12.1
Arsenic (Filtered)	10.2
All Other Metals	<RCG SLs

SP-4 5/17/2019

VOCs	
Benzene	183
1-methylnaph	12.4
Naph	9.4
All Other VOCs	<RCG SLs
PAHs	
Naph	8.0
All Other PAHs	<RCG SLs
SVOCs	BDL
Metals	
Arsenic	14.9
Arsenic (Filtered)	4.7 J
Lead	26.4
All Other Metals	<RCG SLs

SP-3 5/17/2019

VOCs	<RCG SLs
PAHs	<RCG SLs
SVOCs	BDL
Metals	
Lead	33.2
All Other Metals	<RCG SLs

SP-2 5/17/2019
No Sample Collected

Legend

- SB-1 Boring Locations, May 2019
- Sample Exceeds RCG RGSL
- Exceeds RCG VESL - Residential
- Exceeds RCG VESL - Commercial

RCG = Remediation Closure Guidance
RSL = Residential Groundwater Screening Level
VESL = Vapor Exposure Screening Level
BDL = Below Detection Limits
Groundwater results are reported in micrograms per Liter (ug/L)

0 25 50 100

BCA Environmental Consultants, LLC
7202 E. 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

DATE: 6/13/19
SCALE: 1" = 50'
DRAWING TITLE: Groundwater Analytical Results
PROJECT LOCATION: 216 S. College Avenue Bloomington, Indiana
DRAWN BY: JMT
BCA SITE NO. 8131
FIGURE 4

Tables

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

Table 1
Soil Analytical Results - VOCs

Sample ID	Collected Date	Units	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Chloromethane	cis-1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-isopropyltoluene	Methylene Chloride	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylene (Total)	Other VOCs
	CAS Number		67-64-1	71-43-2	104-51-8	135-98-8	98-06-6	75-15-0	74-87-3	156-59-2	78-87-5	100-41-4	110-54-3	98-82-8	99-87-6	75-09-2	90-12-0	91-57-6	91-20-3	103-65-1	127-18-4	108-88-3	79-01-6	95-63-6	108-67-8	75-01-4	1330-20-7	Varies
RCG Residential Screening Level*		**mg/kg**	**85000**	**17**	**110**	**150**	**180**	**740**	**150**	**220**	**14**	**81**	**140**	**270**	**---**	**490**	**250**	**340**	**53**	**260**	**110**	**820**	**5.7**	**290**	**180**	**0.83**	**260**	Varies
RCG Commercial/Industrial Screening Level*		**mg/kg**	**100000**	**51**	**110**	**150**	**180**	**740**	**460**	**2300**	**44**	**250**	**140**	**270**	**---**	**3200**	**390**	**3000**	**170**	**260**	**170**	**820**	**19**	**290**	**180**	**17**	**260**	Varies
RCG Excavation Screening Level*		**mg/kg**	**100000**	**1800**	**110**	**150**	**180**	**740**	**1300**	**2400**	**370**	**480**	**140**	**270**	**---**	**3300**	**390**	**6800**	**3100**	**260**	**170**	**820**	**95**	**290**	**180**	**1300**	**260**	Varies
RCG Soil Migration to GW Screening Level*		**mg/kg**	**57**	**0.051**	**64**	**120**	**31**	**4.8**	**0.98**	**0.41**	**0.033**	**16**	**210**	**15**	**---**	**0.025**	**1.2**	**3.7**	**0.11**	**25**	**0.045**	**14**	**0.036**	**1.6**	**1.7**	**0.014**	**200**	Varies
216 S. College - 2019 Phase II ESA																												
SP-1 (6-7)	5/16/2019 12:35	mg/kg	< 3.84	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.160	< 0.0320	< 0.0320	< 0.160	< 0.160	< 0.320	< 0.0320	< 0.0320	< 0.640	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.0320	< 0.160	< 0.160	< 0.0320	< 0.0320	< 0.0320	< 0.320	BDL
SP-1 (10-11)	5/16/2019 12:30	mg/kg	< 0.163	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0068	< 0.0014	< 0.0014	< 0.0068	< 0.0068	< 0.0135	< 0.0014	< 0.0014	< 0.0271	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0068	< 0.0068	< 0.0014	< 0.0014	< 0.0014	< 0.0136	BDL
SP-2 (2-4)	5/16/2019 10:00	mg/kg	< 0.127	**0.0059**	< 0.0011	< 0.0011	< 0.0011	< 0.0053	< 0.0011	< 0.0011	< 0.0053	< 0.0053	< 0.0106	< 0.0011	< 0.0011	< 0.0212	< 0.0011	< 0.0011	**0.0019**	< 0.0011	< 0.0011	**0.0066**	< 0.0053	**0.0038**	**0.0015**	< 0.0011	< 0.0106	BDL
SP-3 (7-9)	5/16/2019 10:40	mg/kg	< 3.67	< 0.0305	< 0.0305	< 0.0305	< 0.0305	< 0.153	< 0.0305	< 0.0305	< 0.153	< 0.153	< 0.305	< 0.0305	< 0.0305	< 0.611	< 0.0305	< 0.0305	< 0.0305	< 0.0305	< 0.0305	< 0.153	< 0.153	< 0.0305	< 0.0305	< 0.0305	< 0.306	BDL
SP-3 (9-10.5)	5/16/2019 10:45	mg/kg	< 3.76	< 0.0313	< 0.0313	< 0.0313	< 0.0313	< 0.157	< 0.0313	< 0.0313	< 0.157	< 0.157	< 0.313	< 0.0313	< 0.0313	< 0.627	< 0.0313	< 0.0313	< 0.0313	< 0.0313	< 0.0313	< 0.157	< 0.157	< 0.0313	< 0.0313	< 0.0313	< 0.314	BDL
SP-4 (8-9)	5/16/2019 11:50	mg/kg	< 3.78	**0.819**	**0.962**	**0.568**	< 0.0315	< 0.157	< 0.0315	< 0.0315	< 0.157	**10.1**	**31.6**	**2.19**	**0.619**	< 0.629	**0.229**	**0.794**	**0.342**	**2.41**	< 0.0315	< 0.157	< 0.157	**12.5**	**3.59**	< 0.0315	**5.25**	BDL
SP-4 (9-10.5)	5/16/2019 11:55	mg/kg	< 3.72	**0.200**	**0.514**	**0.343**	< 0.0310	< 0.155	< 0.0310	< 0.0310	< 0.155	**1.3**	**23.7**	**0.86**	**0.30**	< 0.619	**0.0978**	**0.291**	**0.0746**	**0.969**	< 0.0310	< 0.155	< 0.155	**0.503**	**0.322**	< 0.0310	**0.709**	BDL
SP-5 (9-11)	5/16/2019 11:20	mg/kg	< 3.69	**0.100**	**0.214**	**0.208**	< 0.0307	< 0.154	< 0.0307	< 0.0307	< 0.154	< 0.154	**4.15**	**0.509**	**0.273**	< 0.614	< 0.0307	**0.0753**	< 0.0307	**0.515**	< 0.0307	< 0.154	< 0.154	**0.0833**	**0.0852**	< 0.0307	< 0.308	BDL
SB-5 (9-11) DUP	5/16/2019 11:20	mg/kg	< 3.58	**0.105**	**0.478**	**0.436**	< 0.0299	< 0.149	< 0.0299	< 0.0299	< 0.149	< 0.149	**18.9**	**1.11**	**0.473**	< 0.597	**0.0667**	**0.146**	< 0.0299	**0.885**	< 0.0299	< 0.149	< 0.149	< 0.0299	**0.0572**	< 0.0299	< 0.298	BDL
SP-5 (11-13)	5/16/2019 11:25	mg/kg	< 4.27	**0.177**	< 0.0356	< 0.0356	< 0.0356	< 0.178	< 0.0356	< 0.0356	< 0.178	< 0.178	< 0.356	< 0.0356	< 0.0356	< 0.712	< 0.0356	< 0.0356	< 0.0356	< 0.0356	< 0.0356	< 0.178	< 0.178	< 0.0356	< 0.0356	< 0.0356	< 0.356	BDL
TB-1	5/16/2019 0:00	mg/kg	< 0.120	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.0100	< 0.0010	< 0.0010	< 0.0200	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0010	< 0.0010	< 0.0100	BDL
Field Duplicate RPD (SB-2 (5-6') & Dup)**		%	0%	5%	76%	71%	0%	0%	0%	0%	0%	0%	128%	74%	54%	0%	125%	64%	0%	53%	0%	0%	0%	139%	39%	0%	0%	NA

Notes:
Samples analyzed using EPA SW-846 Method 8260
mg/kg = milligrams per kilogram
VOCs = Volatile Organic Compounds
BDL - Below Detection Limits
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary `
**RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if values are below Reporting Limit, then the RPD is considered 0%

Table 2
Soil Analytical Results - PAHs

Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
		CAS Number	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	90-12-0	91-57-6	91-20-3	85-01-8	129-00-0
RCG Residential Screening Level*		**mg/kg**	**5000**	**---**	**25000**	**15**	**1.5**	**15**	**---**	**150**	**1500**	**1.5**	**3400**	**3400**	**15**	**250**	**340**	**53**	**---**	**2500**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**45000**	**---**	**100000**	**210**	**21**	**210**	**---**	**2100**	**21000**	**21**	**30000**	**30000**	**210**	**390**	**3000**	**170**	**---**	**23000**
RCG Excavation Screening Level*		**mg/kg**	**100000**	**---**	**100000**	**12000**	**500**	**12000**	**---**	**10000**	**100000**	**1200**	**68000**	**68000**	**12000**	**390**	**6800**	**3100**	**---**	**51000**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**110**	**---**	**1200**	**2.1**	**4.7**	**60**	**---**	**590**	**1800**	**19**	**1800**	**110**	**200**	**1.2**	**3.7**	**0.11**	**---**	**260**
216 S. College - 2019 Phase II ESA																				
SP-1 (3-5)	05/16/2019 12:40	mg/kg	**0.301**	**0.0868**	**0.761**	**1.98**	**1.40**	**1.55**	**0.81**	**1.24**	**2.27**	**0.428**	**4.46**	**0.27**	**0.814**	**0.249**	**0.282**	**0.234**	**3.25**	**4.2**
SP-1 (5-7)	05/16/2019 12:45	mg/kg	**0.149**	**0.0333**	**0.30**	**0.268**	**0.106**	**0.108**	**0.0626**	**0.0828**	**0.322**	**0.0179 J**	**0.486**	**0.207**	**0.0341**	**0.562**	**0.565**	**0.315**	**1.23**	**0.515**
SP-2 (0-2)	05/16/2019 10:00	mg/kg	<0.0013	<0.0015	<0.0015	<0.0015	<0.0018	<0.0021	<0.0022	<0.0020	<0.0018	<0.0021	<0.0027	<0.0013	<0.0020	<0.0011	<0.0011	<0.0010	<0.0019	0.0029 J
SP-2 (2-4)	05/16/2019 10:05	mg/kg	**0.0612**	**0.134**	**0.155**	**0.294**	**0.349**	**0.255**	**0.243**	**0.215**	**0.334**	**0.106**	**0.385**	<0.0068	**0.221**	**0.0226 J**	**0.0236 J**	**0.0363**	**0.0974**	**0.983**
SP-3 (0-2)	05/16/2019 10:25	mg/kg	<0.0148	**0.0239 J**	**0.0593**	**0.38**	**0.40**	**0.441**	**0.406**	**0.346**	**0.488**	**0.107**	**0.724**	<0.0148	**0.337**	<0.0121	<0.0124	<0.0118	**0.196**	**0.786**
SP-3 (2-4)	05/16/2019 10:30	mg/kg	<0.0016	<0.0019	<0.0018	<0.0019	<0.0023	<0.0026	<0.0027	<0.0024	<0.0022	<0.0027	<0.0033	<0.0016	<0.0025	<0.0013	<0.0013	**0.0041 J**	**0.0027 J**	<0.0026
SP-4 (6-8)	05/16/2019 12:00	mg/kg	**0.0044 J**	<0.0019	**0.0066**	**0.0083**	<0.0022	<0.0025	<0.0027	<0.0024	**0.0146**	<0.0026	**0.0115**	**0.0074**	**<0.0024**	**0.672**	**1.39**	**0.221**	**0.0222**	**0.0148**
SP-4 (8-9)	05/16/2019 12:05	mg/kg	<0.0016	<0.0018	<0.0018	**0.0027 J**	<0.0022	<0.0025	<0.0027	<0.0024	**0.0043 J**	<0.0026	**0.0041 J**	**0.0024 J**	<0.0024	**0.195**	**0.398**	**0.121**	**0.0074**	**0.0050 J**
SP-4 (9-10.5)	05/16/2019 12:10	mg/kg	<0.0016	<0.0018	**0.0034 J**	**0.0065**	<0.0022	<0.0025	<0.0027	<0.0024	**0.0119**	<0.0026	**0.0096**	**0.0058 J**	<0.0024	**0.314**	**0.592**	**0.20**	**0.0178**	**0.0119**
SP-5 (6-8)	05/16/2019 11:37	mg/kg	<0.0015	<0.0018	<0.0018	<0.0018	<0.0022	<0.0025	<0.0026	<0.0023	<0.0021	<0.0025	<0.0032	<0.0015	<0.0024	<0.0013	<0.0013	<0.0012	<0.0023	<0.0025
SP-5 (9-11)	05/16/2019 11:30	mg/kg	**0.0063 J**	<0.0020	**0.0059 J**	**0.0096**	**0.0029 J**	**0.0040 J**	<0.0028	**0.0032 J**	**0.0139**	<0.0027	**0.0172**	**0.0112**	<0.0026	**0.395**	**0.469**	<0.0013	**0.0291**	**0.0207**
SP-5 (11-13)	05/16/2019 11:35	mg/kg	**0.0376**	**0.011**	**0.041**	**0.0222**	**0.0063 J**	**0.0081**	<0.0031	**0.0066 J**	**0.0226**	<0.0031	**0.134**	**0.0894**	<0.0028	**0.0274**	**0.0389**	**0.144**	**0.179**	**0.11**
SP-5 (11-13) DUP	05/16/2019 11:35	mg/kg	<0.0016	<0.0019	<0.0019	<0.0019	<0.0023	<0.0026	<0.0028	<0.0025	<0.0022	<0.0027	<0.0034	<0.0016	<0.0025	**0.019**	**0.0213**	**0.0148**	<0.0024	<0.0026
Field Duplicate RPD (SB-5 11-13' & Dup)**		%	191.7%	168.2%	190.9%	183.6%	138.3%	144.7%	0.0%	136.3%	181.4%	0.0%	195.0%	196.5%	0.0%	36.2%	58.5%	162.7%	197.3%	195.3%

Notes:
Samples analyzed using EPA SW-846 Method 8270 and 8270 SIM
mg/kg = milligrams per kilogram
ppm - parts per million
PAHs - Polynuclear Aromatic Hydrocarbons
SVOCs = Semi-volatile organic compounds
BDL - Below Detection Limits
<SL - Below RCG Screening Levels
Blank cells = Not Analyzed
--- No value given in the Remediation Closure Guide
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 3
Soil Analytical Results - SVOCs

Sample ID	Collected Date	Units	Benzyl alcohol	4-Bromophenylphenyl ether	Butylbenzylphthalate	4-Chloro-3-methylphenol	4-Chloroaniline	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-chloro 1-methyl ethyl) ether	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenylphenyl ether	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethylphthalate	2,4-Dimethylphenol	Dimethylphthalate	Di-n-butylphthalate	4,6-Dinitro-2-methylphenol
	CAS Number		100-51-6	101-55-3	85-68-7	59-50-7	106-47-8	111-91-1	111-44-4	108-60-1	91-58-7	95-57-8	7005-72-3	132-64-9	91-94-1	120-83-2	84-66-2	105-67-9	131-11-3	84-74-2	534-52-1
RCG Residential Screening Level*		**mg/kg**	**8800**	**---**	**4100**	**8800**	**38**	**270**	**3.2**	**1000**	**6700**	**550**	**---**	**100**	**17**	**270**	**71000**	**1800**	**---**	**8800**	**7.1**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**82000**	**---**	**12000**	**82000**	**110**	**2500**	**10**	**1000**	**60000**	**5800**	**---**	**1000**	**51**	**2500**	**100000**	**16000**	**---**	**82000**	**66**
RCG Excavation Screening Level*		**mg/kg**	**100000**	**---**	**100000**	**100000**	**6000**	**5200**	**810**	**1000**	**100000**	**9800**	**---**	**1900**	**2700**	**5200**	**100000**	**34000**	**---**	**100000**	**140**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**9.7**	**---**	**46**	**33**	**0.031**	**0.27**	**0.00074**	**5.2**	**77**	**1.8**	**---**	**2.9**	**0.17**	**0.45**	**120**	**8.5**	**---**	**45**	**0.051**
216 S. College - 2019 Phase II ESA																					
SP-1 (3-5)	05/16/2019 12:40	mg/kg	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	**0.494**	<0.394	<0.197	<0.197	<0.197	<0.197	<0.197	<0.394
SP-1 (5-7)	05/16/2019 12:45	mg/kg	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	**0.238 J**	<0.408	<0.204	<0.204	<0.204	<0.204	<0.204	<0.408
SP-2 (0-2)	05/16/2019 10:00	mg/kg	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.339	<0.170	<0.170	<0.170	<0.170	<0.170	<0.339
SP-2 (2-4)	05/16/2019 10:05	mg/kg	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.357	<0.178	<0.178	<0.178	<0.178	<0.178	<0.357
SP-3 (0-2)	05/16/2019 10:25	mg/kg	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.390	<0.195	<0.195	<0.195	<0.195	<0.195	<0.390
SP-3 (2-4)	05/16/2019 10:30	mg/kg	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.422	<0.211	<0.211	<0.211	<0.211	<0.211	<0.422
SP-4 (6-8)	05/16/2019 12:00	mg/kg	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.412	<0.206	<0.206	<0.206	<0.206	<0.206	<0.412
SP-4 (8-9)	05/16/2019 12:05	mg/kg	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.409	<0.204	<0.204	<0.204	<0.204	<0.204	<0.409
SP-4 (9-10.5)	05/16/2019 12:10	mg/kg	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.408	<0.204	<0.204	<0.204	<0.204	<0.204	<0.408
SP-5 (6-8)	05/16/2019 11:37	mg/kg	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.405	<0.202	<0.202	<0.202	<0.202	<0.202	<0.405
SP-5 (9-11)	05/16/2019 11:30	mg/kg	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.436	<0.218	<0.218	<0.218	<0.218	<0.218	<0.436
SP-5 (11-13)	05/16/2019 11:35	mg/kg	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.484	<0.242	<0.242	<0.242	<0.242	<0.242	<0.484
SP-5 (11-13) DUP	05/16/2019 11:35	mg/kg	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.428	<0.214	<0.214	<0.214	<0.214	<0.214	<0.428
Field Duplicate RPD (SB-5 11-13' & Dup)**		%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:
Samples analyzed using EPA SW-846 Method 8270 and 8270 SIM
mg/kg = milligrams per kilogram
ppm - parts per million
PAHs - Polynuclear Aromatic Hydrocarbons
SVOCs = Semi-volatile organic compounds
BDL - Below Detection Limits
--- No value given in the Remediation Closure Guide
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 3
Soil Analytical Results - SVOCs

2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octylphthalate	bis(2-Ethylhexyl)phthalate	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclo-pentadiene	Hexachloroethane	Isophorone	2-Methylphenol (o-Cresol)	3-Methylphenol (m Cresol)	4-Methylphenol (p Cresol)	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitroso-di-n-propylamine	N-Nitroso-diphenylamine	Pentachlorophenol	Phenol	2,4,5-Trichloro- phenol	2,4,6-Trichloro- phenol
51-28-5	121-14-2	606-20-2	117-84-0	117-81-7	87-68-3	118-74-1	77-47-4	67-72-1	78-59-1	95-48-7	108-39-4	106-44-5	88-74-4	99-09-2	100-01-6	98-95-3	88-75-5	100-02-7	621-64-7	86-30-6	87-86-5	108-95-2	95-95-4	88-06-2
180	**24**	**5**	**880**	**550**	**17**	**2.9**	**2.5**	**25**	**8000**	**4500**	**4500**	**8800**	**880**	**---**	**350**	**71**	**---**	**---**	**1.1**	**1500**	**14**	**27000**	**8800**	**88**
1600	**74**	**15**	**8200**	**1600**	**17**	**9.6**	**7.5**	**80**	**24000**	**41000**	**41000**	**82000**	**8000**	**---**	**1100**	**220**	**---**	**---**	**3.3**	**4700**	**40**	**100000**	**82000**	**820**
3400	**3400**	**520**	**18000**	**34000**	**17**	**630**	**16**	**1100**	**100000**	**87000**	**87000**	**100000**	**18000**	**---**	**7000**	**3100**	**---**	**---**	**180**	**100000**	**2600**	**100000**	**100000**	**1800**
0.87	**0.065**	**0.013**	**1100**	**29**	**0.054**	**0.25**	**3.1**	**0.04**	**5.2**	**15**	**15**	**30**	**1.6**	**---**	**0.32**	**0.018**	**---**	**---**	**0.0017**	**13**	**0.028**	**67**	**81**	**0.23**
<0.955	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.394	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.198	<0.197	<0.197	<0.955	<0.197	<0.197	<0.955	<0.197	<0.197	<0.197
<0.990	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.408	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.205	<0.204	<0.204	<0.990	<0.204	<0.204	<0.990	<0.204	<0.204	<0.204
<0.823	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.339	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.170	<0.171	<0.170	<0.170	<0.823	<0.170	<0.170	<0.823	<0.170	<0.170	<0.170
<0.865	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.357	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.178	<0.180	<0.178	<0.178	<0.865	<0.178	<0.178	<0.865	<0.178	<0.178	<0.178
<0.945	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.390	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.196	<0.195	<0.195	<0.945	<0.195	<0.195	<0.945	<0.195	<0.195	<0.195
<1.02	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.422	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.211	<0.212	<0.211	<0.211	<1.02	<0.211	<0.211	<1.02	<0.211	<0.211	<0.211
<0.998	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.412	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.206	<0.207	<0.206	<0.206	<0.998	<0.206	<0.206	<0.998	<0.206	<0.206	<0.206
<0.991	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.409	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.206	<0.204	<0.204	<0.991	<0.204	<0.204	<0.991	<0.204	<0.204	<0.204
<0.990	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.408	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.204	<0.205	<0.204	<0.204	<0.990	<0.204	<0.204	<0.990	<0.204	<0.204	<0.204
<0.981	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.405	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.203	<0.202	<0.202	<0.981	<0.202	<0.202	<0.981	<0.202	<0.202	<0.202
<1.06	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.436	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.218	<0.219	<0.218	<0.218	<1.06	<0.218	<0.218	<1.06	<0.218	<0.218	<0.218
<1.17	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.484	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.242	<0.244	<0.242	<0.242	<1.17	<0.242	<0.242	<1.17	<0.242	<0.242	<0.242
<1.04	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.428	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.214	<0.215	<0.214	<0.214	<1.04	<0.214	<0.214	<1.04	<0.214	<0.214	<0.214
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Table 4
Soil Analytical Results - Metals

Sample ID	Collected Date	Units	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium Total	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		CAS Number	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-66-6
RCG Residential Screening Level*		**mg/kg**	**43**	**9.5**	**21000**	**220**	**99**	**---**	**4300**	**400**	**3.1**	**2100**	**550**	**550**	**1.1**	**32000**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**470**	**30**	**100000**	**2300**	**980**	**---**	**47000**	**800**	**3.1**	**22000**	**5800**	**5800**	**12**	**100000**
RCG Excavation Screening Level*		**mg/kg**	**790**	**920**	**100000**	**3800**	**1900**	**---**	**79000**	**1000**	**3.1**	**38000**	**9800**	**9800**	**20**	**100000**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**5.4**	**5.9**	**1700**	**63**	**7.5**	**1000000**	**920**	**270**	**2.1**	**510**	**5.3**	**16**	**2.9**	**7500**
216 S. College - 2019 Phase II ESA																
SP-1 (3-5)	05/16/2019 12:40	mg/kg	<0.25	**12.0**	**72.6**	**0.91**	**0.18 J**	**13.6**	**17.8**	**16.3**	**0.11 J**	**17**	**0.64 J**	<0.30	**1.6**	**37**
SP-1 (5-7)	05/16/2019 12:45	mg/kg	<0.27	**8.2**	**49.1**	**1.4**	**0.13 J**	**8.7**	**37.2**	**43.9**	**0.13 J**	**19.1**	**1.2**	<0.32	**0.95 J**	**49.9**
SP-2 (0-2)	05/16/2019 10:00	mg/kg	<0.24	**0.97 J**	**42.2**	<0.020	**0.37 J**	**7.1**	**2.2**	**2.1**	<0.10	**8.6**	<0.37	**0.68**	<0.24	**22**
SP-2 (2-4)	05/16/2019 10:05	mg/kg	<0.25	**14.2**	**75.2**	**0.46 J**	**0.26 J**	**15.8**	**9.1**	**14.7**	<0.11	**11.2**	<0.38	<0.29	**0.86 J**	**33.1**
SP-3 (0-2)	05/16/2019 10:25	mg/kg	<0.26	**6.3**	**301**	**0.51 J**	**0.34 J**	**13.3**	**17.6**	**96.5**	**0.59**	**13.2**	<0.40	<0.30	**0.83 J**	**97.4**
SP-3 (2-4)	05/16/2019 10:30	mg/kg	<0.28	**13.6**	**72.8**	**0.77**	**0.13 J**	**19.2**	**22.1**	**20**	<0.12	**15.8**	<0.44	<0.33	**1.1 J**	**49.8**
SP-3 (4-6)	5/16/2019 10:33	mg/kg	--	**8.4**	--	--	--	--	--	--	--	--	--	--	--	--
SP-3 (6-8)	5/16/2019 10:35	mg/kg	--	**4.2**	--	--	--	--	--	--	--	--	--	--	--	--
SP-3 (8-10.5)	5/16/2019 10:40	mg/kg	--	**5.2**	--	--	--	--	--	--	--	--	--	--	--	--
SP-4 (0-2)	05/16/2019 12:15	mg/kg	<0.26	**7.7**	**187**	**0.6**	**0.63**	**17.3**	**16.3**	**44.7**	**0.15 J**	**12.8**	**0.50 J**	<0.31	**0.72 J**	**111**
SP-4 (2-4)	05/16/2019 12:20	mg/kg	<0.28	**18.5**	**98.4**	**0.91**	**0.18 J**	**22.5**	**26.4**	**15.1**	<0.12	**15.9**	<0.44	<0.33	**0.84 J**	**57.4**
SP-4 (4-6)	5/16/2019 12:25	mg/kg	--	**15.1**	--	--	--	--	--	--	--	--	--	--	--	--
SP-4 (6-8)	5/16/2019 12:00	mg/kg	--	**8.6**	--	--	--	--	--	--	--	--	--	--	--	--
SP-4 (8-10.5)	5/16/2019 12:07	mg/kg	--	**4.2**	--	--	--	--	--	--	--	--	--	--	--	--
SP-5 (0-2)	05/16/2019 11:40	mg/kg	**0.23 J**	**6.1**	**147**	**0.54**	**0.20 J**	**14.9**	**12.1**	**107**	**0.85**	**9.3**	<0.35	<0.27	**0.59 J**	**57.5**
SP-5 (0-2) DUP	05/16/2019 11:40	mg/kg	<0.23	**7.5**	**136**	**0.66**	**0.14 J**	**13.9**	**116**	**95.3**	**1.0**	**10.5**	<0.36	<0.27	**0.60 J**	**74.1**
SP-5 (2-4)	05/16/2019 11:45	mg/kg	<0.27	**7.7**	**91.6**	**0.67**	**0.099 J**	**15.1**	**11.8**	**17.8**	**0.42**	**11.4**	<0.42	<0.32	**0.54 J**	**49.4**
SP-5 (6-8)	05/16/2019 11:37	mg/kg	<0.27	**6.6**	**118**	**1.1**	**0.16 J**	**32.3**	**13.5**	**14**	<0.11	**15**	<0.41	<0.31	**0.50 J**	**57.3**
Field Duplicate RPD (SB-5 0-2' & Dup)**		%	67%	21%	8%	20%	35%	7%	162%	12%	16%	12%	0%	0%	2%	25%

Notes:
Samples alyzed using EPA Method 6010 and Method 7471
mg/kg = milligrams per kilogram
ppm - parts per million
Blank cells = Not Analyzed
--- No value given in the Remediation Closure Guide
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 5
Groundwater Analytical Results - VOCs

Sample ID	Collected Date	Units	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	Methylene Chloride	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylene (Total)	Other VOCs
	CAS Number		67-64-1	71-43-2	104-51-8	135-98-8	67-66-3	156-59-2	100-41-4	110-54-3	98-82-8	75-09-2			91-20-3	103-65-1	127-18-4	108-88-3	79-01-6	95-63-6	108-67-8	75-01-4	1330-20-7	Varies
RCG Residential Groundwater Screening Level *		ug/L	**14000**	**5**	**1000**	**2000**	**80**	**70**	**700**	**1500**	**450**	**5**	**11**	**36**	**1.7**	**660**	**5**	**1000**	**5**	**56**	**60**	**2**	**10,000**	**Varies**
Vapor Exposure GW Screening Level - Residential		ug/L	**---**	**28**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**110**	**---**	**110**	**---**	**9.1**	**---**	**---**	**2.1**	**---**	**Varies**
Vapor Exposure GW Screening Level - Com/Ind		ug/L	**---**	**120**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**460**	**---**	**470**	**---**	**38**	**---**	**---**	**35**	**---**	**Varies**
216 S. College - 2019 Phase II ESA																								
SP-1	5/17/2019 11:45	ug/L	< 120	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
SP-3	5/17/2019 13:10	ug/L	< 120	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11.4**	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
SP-4	5/17/2019 13:45	ug/L	< 120	**183**	**5.8**	**4.4**	< 1.0	< 1.0	**244**	**164**	**35.4**	< 20	**12.4**	**35.2**	**9.4**	**43.3**	< 1.0	< 5.0	< 5.0	**41.2**	**16.7**	< 1.0	**72.6**	BDL
SP-5	5/17/2019 10:23	ug/L	< 120	**34.0**	< 1.0	**1.5**	< 1.0	< 1.0	< 5.0	< 10	**6.4**	< 20	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
SP-5 (Dup)	5/17/2019 10:23	ug/L	< 120	**36.1**	< 1.0	**1.4**	< 1.0	< 1.0	< 5.0	< 10	**6.3**	< 20	< 1.0	< 1.0	< 1.0	**3.7**	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
EB-1	5/17/2019 14:50	ug/L	< 120	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
TB-1	5/17/2019 0:00	ug/L	< 120	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10	BDL
Field Duplicate RPD (SP-5 & Dup)**		%	0.0%	**6.0%**	0.0%	**6.9%**	0.0%	0.0%	0.0%	0.0%	**1.6%**	0.0%	0.0%	0.0%	0.0%	**7.8%**	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Notes:
Samples analyzed using EPA SW-846 Method 5030B/8260
ug/L = micrograms per liter
VOCs = Volatile Organic Compounds
BDL = Below Detection Limits
J - Identification of the analyte is acceptable, the reported value is an estimated concentration since it is above the adjusted method detection limit and below the adjusted reporting limit.
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2
**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Re

Table 6
Groundwater Analytical Results - PAHs

Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
	CAS Number		83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	90-12-0	91-57-6	91-20-3	85-01-8	129-00-0
RCG Residential Groundwater Screening Level *		ug/L	**530**	**---**	**1800**	**0.3**	**0.2**	**2.5**	**---**	**25**	**250**	**0.25**	**800**	**290**	**2.5**	**11**	**36**	**1.7**	**---**	**120**
Vapor Exposure GW Screening Level - Residential		ug/L	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**110**	**---**	**---**
Vapor Exposure GW Screening Level - Com/Ind		ug/L	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**460**	**---**	**---**
216 S. College - 2019 Phase II ESA																				
SP-1	05/17/2019 11:45	ug/L	<0.032	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	<0.044	<0.031	<0.045	<0.044	<0.053	<0.052	<0.034
SP-3	05/17/2019 13:10	ug/L	<0.032	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	<0.044	<0.031	**0.065 J**	0.071 J	<0.053	<0.052	<0.034
SP-4	05/17/2019 13:45	ug/L	<0.032	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	**0.080 J**	<0.031	**10.6**	**18.1**	**8.0**	**0.11 J**	<0.034
SP-5	05/17/2019 10:23	ug/L	**0.066 J**	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	<0.044	<0.031	**0.38 J**	**0.31 J**	<0.053	<0.052	<0.034
SP-5 DUP	05/17/2019 10:23	ug/L	<0.032	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	<0.044	<0.031	**0.47 J**	**0.39 J**	<0.053	**0.053 J**	<0.034
EQ Blank	05/17/2019 14:50	ug/L	<0.032	<0.045	<0.040	<0.042	<0.043	<0.038	<0.029	<0.042	<0.056	<0.032	<0.029	<0.044	<0.031	<0.045	<0.044	**0.096 J**	<0.052	<0.034
Field Duplicate RPD (SP-5 & Dup)**		%	**122.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**0.0%**	**21.2%**	**22.9%**	**0.0%**	**68.4%**	**0.0%**

Notes:
Samples analyzed using EPA SW-846 Method 8270 SIM
ug/L -- micrograms per kilogram
ppb - parts per billion
PAHs - Polynuclear Aromatic Hydrocarbons
BDL - Below Detection Limits
--- No value given in the Remediation Closure Guide
J - Identification of the analyte is acceptable, the reported value is an estimated concentration since it is above the adjusted method detection limit and below the adjusted reporting limit.
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%
-- or Blank cells = Not Analyzed

Table 7
Groundwater Analytical Results - SVOCS

Sample ID	Collected Date	Units	Benzyl alcohol	4-Bromophenylphenyl ether	Butylbenzylphthalate	4-Chloro-3-methylphenol	4-Chloroaniline	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-chloro 1-methyl ethyl) ether	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenylphenyl ether	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethylphthalate	2,4-Dimethylphenol	Dimethylphthalate	Di-n-butylphthalate	4,6-Dinitro-2-methylphenol
	CAS Number		100-51-6	101-55-3	85-68-7	59-50-7	106-47-8	111-91-1	111-44-4	108-60-1	91-58-7	95-57-8	7005-72-3	132-64-9	91-94-1	120-83-2	84-66-2	105-67-9	131-11-3	84-74-2	534-52-1
RCG Residential Groundwater Screening Level *		ug/L	**2000**	**---**	**160**	**1400**	**3.7**	**59**	**0.14**	**710**	**750**	**91**	**---**	**7.9**	**1.3**	**46**	**15000**	**360**	**---**	**900**	**1.5**
216 S. College - 2019 Phase II ESA																					
SP-1	05/17/2019 11:45	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
SP-3	05/17/2019 13:10	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
SP-4	05/17/2019 13:45	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
SP-5	05/17/2019 10:23	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
SP-5 DUP	05/17/2019 10:23	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
EQ Blank	05/17/2019 14:50	ug/L	<2.4	<3.0	<4.2	<2.9	<2.2	<2.6	<2.2	<2.5	<4.1	<2.7	<3.8	<3.6	<3.5	<2.5	<2.5	<3.9	<2.5	<3.1	<4.9
Field Duplicate RPD (SP-5 & Dup)**		%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Notes:
Samples analyzed using EPA SW-846 Method 8270 SIM
ug/L -- micrograms per kilogram
ppb - parts per billion
SVOCs - Semi Volatile Organic Compounds
BDL - Below Detection Limits
--- No value given in the Remediation Closure Guide
J - Identification of the analyte is acceptable, the reported value is an estimated concentration since it is above the adjusted method detection limit and below the adjusted reporting limit.
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%
-- or Blank cells = Not Analyzed

Table 7
Groundwater Analytical Results - SVOCS

2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octylphthalate	bis(2-Ethylhexyl)phthalate	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclo- pentadiene	Hexachloroethane	Isophorone	2-Methylphenol (o-Cresol)	3-Methylphenol (m Cresol)	4-Methylphenol (p Cresol)	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitroso-di-n-propylamine	N-Nitroso- diphenylamine	Pentachlorophenol	Phenol	2,4,5-Trichloro- phenol	2,4,6-Trichloro- phenol
51-28-5	121-14-2	606-20-2	117-84-0	117-81-7	87-68-3	118-74-1	77-47-4	67-72-1	78-59-1	95-48-7	108-39-4	106-44-5	88-74-4	99-09-2	100-01-6	98-95-3	88-75-5	100-02-7	621-64-7	86-30-6	87-86-5	108-95-2	95-95-4	88-06-2
39	**2.4**	**0.49**	**200**	**6**	**1.4**	**1**	**50**	**3.3**	**780**	**930**	**930**	**1900**	**190**	**---**	**38**	**1.4**	**---**	**---**	**0.11**	**120**	**1**	**5800**	**1200**	**12**
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
<3.8	<2.6	<3.4	<6.2	<4.4	<3.0	<2.7	<2.5	<2.6	<2.2	<2.7	<2.5	<2.5	<2.5	<3.0	<2.8	<2.4	<2.8	<2.5	<2.6	<2.5	<1.9	<1.7	<2.9	<3.2
0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table 8
Groundwater Analytical Results - Metals

Sample ID	Collected Date	Units	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium VI (field filtered)	Chromium (Total)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	CAS Number		7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	18540-29-9	7440-47-3	7440-50-8	7439-92-1	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-66-6
RCG Residential Groundwater Screening Level *		ug/L	6	10	2000	4	5	0.35	100	1300	15	2	390	50	94	2	6000
216 S. College - 2019 Phase II ESA																	
SP-1	05/17/2019 11:45	ug/L	<3.3	**8.2 J**	**276**	<0.24	<0.44	**0.22 J**	<1.1	<2.7	<3.5	<0.069	**3.7 J**	<5.2	<1.2	<0.040	**3.5 J**
SP-3	05/17/2019 13:10	ug/L	**3.9 J**	**10.0 J**	**203**	**1.6 J**	**1.3 J**	--	**44.6**	**18.1**	**33.2**	<0.069	**29.4**	<5.2	<1.2	**0.18 J**	**69.2**
SP-4	05/17/2019 13:45	ug/L	<3.3	**14.9**	**607**	**1.2 J**	**0.73 J**	**0.053 J**	**22.7**	**24.3**	**26.4**	<0.069	**18.0**	<5.2	<1.2	**0.22 J**	**68.1**
SP-4 FIELD FILTERED	05/17/2019 13:45	ug/L	--	**4.7 J**	--	--	--	--	--	--	**3.7 J**	--	--	--	--	--	--
SP-5	05/17/2019 10:23	ug/L	<3.3	**12.4**	**459**	<0.24	**0.58 J**	**0.12**	**2.8 J**	<2.7	<3.5	<0.069	**5.8 J**	<5.2	<1.2	<0.040	**12.7 J**
SP-5 DUP	05/17/2019 10:23	ug/L	<3.3	**12.1**	**460**	<0.24	**0.59 J**	**0.10**	**3.4 J**	<2.7	<3.5	<0.069	**6.8 J**	<5.2	<1.2	<0.040	**15.7 J**
SP-5 FIELD FILTERED	05/17/2019 10:23	ug/L	--	**10.2**	--	--	--	--	--	--	--	--	--	--	--	--	--
EQ Blank	05/17/2019 14:50	ug/L	<3.3	<4.3	<0.66	<0.24	<0.44	**0.14**	<1.1	<2.7	<3.5	<0.069	<1.0	<5.2	<1.2	<0.040	**1.6 J**
Field Duplicate RPD (SB-GW-1 & Dup)**		%	0.0%	**2.4%**	**0.2%**	0.0%	**1.7%**	**21.5%**	**19.4%**	0.0%	0.0%	0.0%	**15.9%**	0.0%	0.0%	0.0%	**21.1%**

Notes:
Samples analyzed using EPA Method 6010 (Metals)
ug/L -- micrograms per Liter
ppb - parts per billion
-- or Blank cells = Not Analyzed
--- No value given in the Remediation Closure Guide
J - Identification of the analyte is acceptable, the reported value is an estimated concentration since it is above the adjusted method detection limit and below the adjusted reporting limit.
* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 2019
**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Appendix A

Sampling and Analysis Plan and Health and Safety Plan

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

SAMPLING AND ANALYSIS PLAN
PHASE II ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 S. College Avenue
Bloomington, Indiana 47404
Cooperative Agreement # BF - 00E02280 – 0
BCA Project No. 8131/19-146
May 13, 2019

1.0 BACKGROUND AND PURPOSE

The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The Subject Site is comprised of three (3) parcels of land identified by two (2) parcel numbers (# 53-05-33-310-240.000-005 and # 53-05-33-310-243.000-005) totaling approximately 1.7 acres of land that is situated in the City of Bloomington, Monroe County, Indiana. The Site is located on the south side of West 4th Street, on the north side of West 3rd Street and on the west side of South College Avenue. The surrounding area is a mix of commercial and municipal properties. The B-Line multi-use trail runs along the western property boundary. The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site is owned by Thomas Sicks & Nancy Held. The City of Bloomington is in the process of acquiring the Subject Site for redevelopment purposes.

A Phase I Environmental Site Assessment (ESA) of the Subject Site was conducted for the City of Bloomington by BCA Environmental Consultants, LLC (BCA). The Phase I ESA was funded through an U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement BF- 00E02280). The Phase I ESA identified the following recognized environmental conditions (RECs):

Onsite:

- Two (2) former gas stations in the northeast quadrant of the Subject Site;
- A trench drain with an apparent oil-water separator (or grease trap) located just outside the northwest corner of the onsite building;
- Historical rail spur and coal piles along the western border of the property (mostly beneath the current building).

Offsite:

- Former manufactured gas plant (MGP) across the B-Line trail to the west of the Subject Site;
- Former LUST site (currently the Wonderlab museum) diagonally to the northwest of the Subject Site;
- Possible TCE plume that was identified on the 304 Kirkwood property (the Foundry, located approximately 440 feet north-northwest) and may run south to approximately ½ block west of the Subject Site.

The purpose of the Phase II ESA is to implement the recommendations of the Phase I ESA and investigate areas of potential environmental impact to confirm the presence or absence of contaminants. The scope of work proposed herein would not be sufficient to determine the extent and magnitude of contamination, if it is present.

2.0 SCOPE OF WORK

The investigation procedures will follow BCA's Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the IDEM 2012 Remediation Closure Guide (RCG), regulations and industry-accepted practices. Investigation results will be compared to RCG residential closure levels (RCLs) and industrial closure levels (ICLs) from the RCG Appendix A, Table A-6: 2019 Screening Levels.

2.1 Phase II Environmental Site Assessment

The potential environmental concerns identified in the Phase I are included in section 1.0 above.

Soil and groundwater samples will be analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds/polynuclear aromatic hydrocarbons (SVOCs/PAHs), hexavalent chromium (CrVI) and 14 metals.

2.1.1 Geophysical Survey

A limited geophysical survey will be conducted at the site in an attempt to identify the locations of the former USTs and any unknown and buried utilities. The survey will consist of ground penetrating radar (GPR) scans of the area around the proposed borings to identify any potential buried utility or other sub-surface anomaly, and to determine the presence or absence of the former UST associated with the Subject Site. Any linear anomalies will be marked and mapped as possible utility locations.

2.1.2 Soil/Groundwater Boring Investigation

Boring and sample logs from other sub-surface investigations in the area (CTP Parking lot & the Showers) indicate bedrock has been encountered at depths ranging from 8 to 13 feet below ground surface (bgs), sometimes with a thin saturated layer above the bedrock. A total of five (5) soil probes will be driven throughout the Subject Site: all to refusal, 5 feet past first groundwater or 25 feet bgs, whichever is shallower. The probes will be placed on the site as indicated on the attached site map (**Figure 1**) with adjustments based on site conditions, utility locations, and observations made by BCA personnel upon arrival at the site.

Probe SP-1 will be located in the northwest portion of the Subject Site near the

suspected oil/water separator. This probe will also evaluate potential impacts from the former rail spur in that area, as well as potential impacts from off-site contaminant sources upgradient to the west, northwest, and north.

Probe SP-2 will be located in the southwest portion of the Subject Site in the suspected historical coal storage area. This probe will also evaluate potential impacts from off-site contaminant sources upgradient to the west and northwest, particularly the former MGP site adjoining to the west of the Subject Site.

Probe SP-3 will be located in the southeast portion of the Subject Site to evaluate potential impacts from the former battery service stations and vulcanizing operations in the central portion of the property, as well as to evaluate potential impacts from off-site contaminant sources cross-gradient to the east.

Two (2) probes (SP-4 and SP-5) will be located near the suspected former USTs or UST pit(s) as identified by a GPR survey and historical maps, to assess soil and groundwater conditions around or near the former USTs. Soil and groundwater samples will be collected from each designated boring and analyzed as indicated below.

Soil samples will be collected continuously throughout the depth of each of the probes. The soil samples will be field screened as described below, and two (2) soil samples from each probe will be analyzed for VOCs, SVOCs/PAHs, and 14 metals. Specifically, soil samples for VOC analysis will be collected from an interval where field screening suggests the presence of volatiles and at bottom interval or from the vadose (smear) zone of the probes.

Deeper soil samples (2-4, 4-6, 6-8 feet bgs etc.) from each probe will also be collected and retained for potential follow-up analysis for metals. Up to five (5) soil samples may be analyzed for up to four (4) four metals each, to determine the depth of impact or whether contaminants are migrating from shallow soils. The three (3) soil samples with the highest total chromium concentrations will be analyzed for CrVI by EPA Method 7199.

If soil screening does not suggest the presence of contamination, then the first soil sample interval from the surface and the interval at or below the tank bottoms (about 6 to 10’ bgs) in each probe (as applicable) will be selected for analysis for VOCs, SVOCs/PAHs and metals as indicated for probes SB-4 to SB-5.

Groundwater will be sampled from each of the probes where measurable amounts of groundwater is encountered, using temporary 1" PVC sampling points with 5' of screen and micro-purge (low-flow) sampling techniques as described below. Groundwater samples from each of the probes will be analyzed for VOCs, SVOCs/PAHs, and 14 metals. Filtered groundwater samples will be collected from each location and up to five (5) filtered samples will be analyzed for up to four (4) metals that exceed the groundwater screening levels in the unfiltered samples. Filtered groundwater samples also will be collected and held for follow-up analysis of up to five (5) samples for CrVI via EPA method 7199.

2.2 Field Methods

The approved Field Standard Operating Procedures for the project will be used for all tasks. The placement of probes will be as indicated in the attached site map (**Figure 1**).

Probes will be advanced by means of direct push probing. Probes will be advanced continuously by utilizing 4- or 5-foot long macro-bore rods equipped with an acetate inner liner. Soil cores will be screened in the field with a photo-ionization detector (PID) and logged in accordance with the Unified Soil Classification System (USCS). Field evidence of contamination (PID, olfactory or visible staining) will be noted. Soil samples will be selected for laboratory analysis based on the field screening results, position in the soil column or other evidence of contamination. Soil samples for VOC analysis will be collected using EPA method 5035A with Terracore™ samplers and 40 mL VOA bottles containing distilled water and methanol preservative and will be frozen within 48 hours of collection.

Locally, shallow groundwater likely flows with the surface contour to the south-southeast toward a nearby buried stream channel. It is anticipated that a thin saturated zone will be encountered above bedrock which is anticipated at 8 to 13 ft. bgs. If groundwater is not initially apparent, the boring will be allowed to sit overnight and will be checked again to determine if groundwater has accumulated. Groundwater samples will be collected by use of temporary 1" PVC sampling points with 5' screens, placed in selected boreholes. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (reformatted June 6, 2012) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, and Oxygen Reduction Potential) will be monitored in each temporary sampling point during purging until at least three (3) parameters have stabilized. Micro-Purge sampling will be conducted with a non-contact stainless steel submersible bladder pump. If groundwater

monitoring parameters cannot be stabilized, a sample will be collected regardless, and a note will be recorded in the field book. If filtered samples are to be analyzed (see above) they will be collected by passing the groundwater through an in-line 10-micron (um) cartridge filter. Groundwater samples to be analyzed for CrVI will be collected in approved laboratory-provided EPA method 7199 kits.

If groundwater flow parameters will not support Low Flow sampling (slow recharge rate, low water levels, etc.), Low Flow will be suspended, and other methods (peristaltic pump or bailer) will be utilized to collect a sample after the probe is purged dry several times and allowed to recover for sufficient sample volume to be collected.

All probe locations will be located by means of a mapping grade (3-meter accuracy, Post Processed) GPS device.

Soil cuttings and purge water from groundwater sampling will be drummed and held on-site. Following laboratory testing, the drum(s) will be transported for disposal, if appropriate. Cost projections are based on disposal of two (2) 55-gallon drums.

For further information on field methods see the Field Standard Operating Procedures, notably Sections 1.2 Soil Sampling and 1.3 Groundwater Sampling.

2.3 Laboratory Methods

An analysis summary is provided in **Table 1**. The analytes and methods utilized for this project include:

VOCs = volatile organic compounds. Analysis by EPA Method 8260.

SVOCs/PAHs = Semi-volatile organic Compounds & polynuclear aromatic hydrocarbons. Analysis by EPA Method 8270SIM.

14 Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Analysis by EPA Method 6010B, 7470, 7471.

4 Metals = Field Filtered – Follow-up analysis. Metals to be determined.

CrVI = hexavalent chromium (low level soil). Analysis by EPA Method SW-846/7199A.

CrVI = hexavalent chromium (low level water). Analysis by EPA Method SW-846/7199.

2.4 Quality Control

Quality control samples are collected and analyzed to assess the quality of the data resulting from the field sampling program. Quality control samples and laboratory reports will meet the requirements of the IDEM guidance. Equipment blanks will be collected for this project if groundwater samples are collected with non-disposable equipment and will include one (1) for each day of groundwater sampling. Two (2) trip blanks (one (1) for soil and one (1) for water) will be submitted for the project (for VOCs only). Field duplicate samples of each matrix are collected at the rate of one (1) per 20 investigative samples for each analytical method. Matrix spikes and matrix spike duplicates (MS/MSD) are collected at a rate of one (1) per 20 investigative samples per sample matrix for each analytical method. For this project, one (1) equipment blank for the groundwater sampling equipment, one (1) duplicate sample, and one (1) MS/MSD sample for each analytical method will be collected for groundwater; and one (1) duplicate sample and one (1) MS/MSD sample for each analytical method will be collected for soil. The laboratory will include a DQO Level III report package.

2.5 Decontamination

Sampling equipment utilized at the site will be decontaminated using a non-phosphate detergent wash and tap water rinse prior to and following the collection of each sample to reduce the potential for cross contamination. All other procedures used to decontaminate equipment will be documented. Where ever practical, disposable sampling equipment will be used to eliminate the need for decontamination.

2.6 Report

Observations and data generated by the field investigation will be summarized in a bound report for submittal to the Client. The report will contain a detailed explanation and documentation of sample locations and collection procedures. The analytical data will be summarized, and conclusions discussed to the extent possible. The need for additional investigation or remediation of the parcel will also be discussed, if appropriate.

3.0 COST

The cost of providing these Phase II ESA services will be $32,328 which will be invoiced monthly on a percent complete basis. The cost of providing these services is based on the fee schedule and direct expense rates established in the executed contract between BCA and the City of Bloomington. Any modifications to the scope of this SAP will be invoiced per the contract terms following approval by the EPA and the City.

SITE HEALTH AND SAFETY PLAN

Commercial Building, 216 S. College St., Bloomington, Indiana

1.0 GENERAL PROJECT INFORMATION

Prime Contractor:	**BCA Environmental Consultants, LLC**
Client:	**City of Bloomington**
Subject Site Name:	**Commercial Building**
Site Address:	**216 S. College, Bloomington, IN**
Principal: **Project Manager:**	**John Kilmer** **Jacob Teuschler**
Date of Plan:	**May 14, 2019**

SITE DESCRIPTION

Type of Facility (describe):	**Commercial Building**
Active or Closed/Abandoned:	**Active**
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	**3 parcels, 1.7 acres, w/ one (1) building, paved lot, overhead utilities**
List any site access restrictions:	**None**
Surrounding neighborhood description:	**Commercial / Municipal**

SITE ACTIVITIES - The site activities covered by this HASP include those checked in the box below:

Site Activity	Soil Borings	Groundwater Probe Installation	Soil / Purge Water Disposal	Soil Excavation	Soil Sampling
Assessment					
Investigation	**X**	**X**	**X**		**X**
Remediation					

EMERGENCY PHONE NUMBERS

POSITION	NAME	CONTACT
Safety Officer	**Jacob Teuschler**	**© (765) 686-2414**
Field Manager	**Jacob Teuschler**	**© (765) 686-2414**
Field Technician	**Rod Manny**	**© (765) 413-4750**
Industrial Services	**To be determined**	**To be determined**
Subcontractors: List all names of Subcontractors	**TBD**	**TBD**
Hospital Name	**IU Health Bloomington Hospital**	
Hospital Address	**601 W 2nd Street, Bloomington**	
Hospital Phone	**(812) 353-5252**	
Directions to nearest Hospital	**See attached map**	
Fire and Emergency	**Call 911**	
EPA Hotline:	**1-800- 621-3191**	

2.0. INTRODUCTION/SCOPE OF WORK

This plan provides health and safety guidelines for site investigation and remediation activities conducted by BCA Environmental Consultants, LLC (BCA) to protect on-site personnel, visitors and the public from physical harm and exposure to hazardous materials and/or wastes. The procedures and guidelines contained herein are based on the best available information at the time of the plan's preparation. Specific requirements may be revised if new information is received, or site conditions change. It is the responsibility of the field personnel to evaluate the site work conditions and if in doubt about safety or an operation, request assistance from the Site Safety Officer. Compliance with this plan is mandatory for all on-site BCA personnel and subcontractors.

Operations at the site may require additional tasks not identified in the preparation of this health and safety plan (HASP). Before performing any task not covered in this HASP a revision must be prepared and approved by the Site Safety Officer (SSO).

2.1 Scope of Work

Scope of work for the investigation at the site includes:

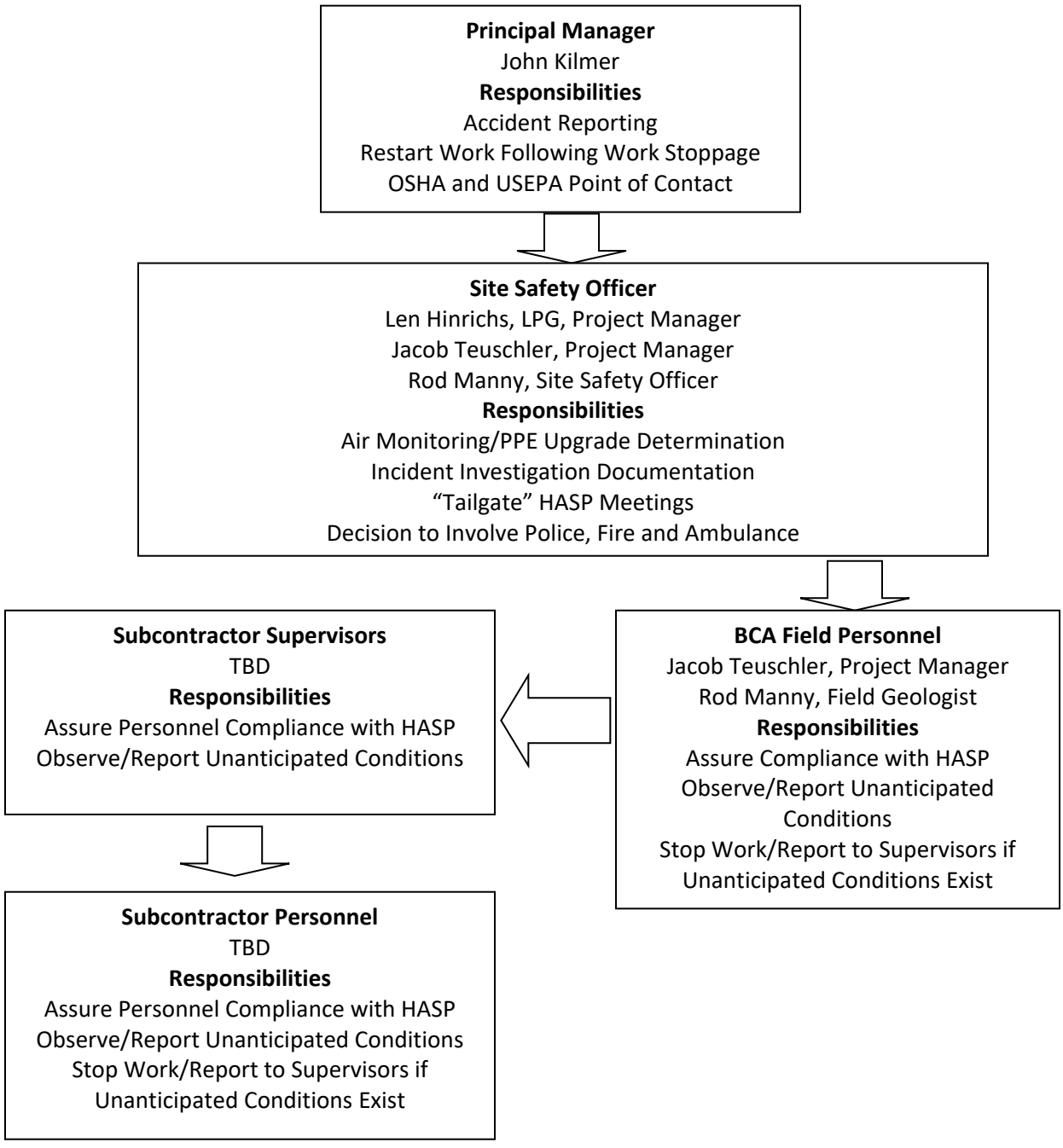
- Utility locate
- Geophysical Survey
- Install soil/groundwater probes
- Sample soil
- Sample groundwater

3.0 PERSONNEL CONTACT INFORMATION AND PHONE NUMBERS

The BCA SSO will have the authority to alter work practices, stop work, and/or allocate resources to mitigate unsafe work practices. All personnel have the authority to stop any work practice that may endanger site personnel or the general public. Restarting work will be done in consultation with the SSO. The following personnel and subcontractor resources will be used on this site:

POSITION	NAME	CONTACT
Safety Officer	**Jacob Teuschler**	**© (765) 686-2414**
Field Manager	**Jacob Teuschler**	**© (765) 427-0471**
Field Technician	**Rod Manny**	**© (765) 686-2414**
Excavation Services	**To be determined**	**To be determined**
Remediation Services	**To be determined**	**To be determined**
Subcontractors: List all names of subcontractors to be used for site activities	**To be determined**	**To be determined**

TABLE OF AUTHORITY



4.0 EMERGENCY INFORMATION/RESPONSE

The purpose of this section is to provide the on-site user with contact and location information to be used in case of an emergency response situation. In case of an emergency on-site, **CALL 911** first and **NOTIFY** the site operator (if available). Then contact the BCA project manager and Site Safety Officer for this site.

EMERGENCY PHONE NUMBERS

Hospital Name	**IU Health Bloomington Hospital**
Hospital Address	**601 W 2nd Street, Bloomington**
Hospital Phone Number	**(812) 353-5252**
Directions to nearest Hospital	See attached map
Fire and Emergency	Call 911
EPA Hotline:	1-800- 621-3191
National Response Center	1-800-424-8802
TSCA HOTLINE	1-800-424-9065
Poison Control Center	1-800-382-9097
CHEMTREC	1-800-424-9300
National Pesticide Center	1-800-858-7378

5.0 STANDARD EMERGENCY PROCEDURES

5.1 Hazard Communication

Any organization wishing to bring any hazardous material onto any BCA-controlled work site must first provide a copy of the item's Material Safety Data Sheet (MSDS) to the Site Safety Officer for approval and filing (the Site Safety Officer will maintain copies of all MSDSs on site). MSDSs may not be available for locally-obtained products, in which case some alternate form of product hazard documentation will be acceptable. All personnel shall be briefed on the hazards of any chemical product they use and shall be aware of and have access to all MSDSs. All containers on site shall be properly labeled to indicate their contents. Labeling on any containers not intended for single-day, individual use shall contain additional information indicating potential health and safety hazards (flammability, reactivity, etc.).

The Hazard Communication standard (29 CFR 1910.1200) has been provided to employees, and a written copy is on file at BCA's office.

5.2 Confined Space Entry

There is no expectation that a confined space will be entered during this project.

6.0. PERSONNEL TRAINING RECORDS

All personnel working within the exclusion zone are required to have 40-hour HAZWOPPER training and be current with refresher training in accordance with 29CFR 1910.120.

7.0 KNOWN OR ANTICIPATED HAZARDS

7.1 General Safety Rules

Housekeeping

During site activities, work areas will be continuously policed for identification of excess trash and unnecessary debris. Excess debris and trash will be collected and stored in an appropriate container (e.g., plastic trash bags, garbage can, roll-off bin) prior to disposal. At no time will debris or trash be intermingled with waste PPE or contaminated materials.

Smoking, Eating, or Drinking

Smoking, eating and drinking will not be permitted inside any controlled work area at any time. Field workers will first wash hands and face immediately after leaving controlled work areas (and always prior to eating or drinking). Consumption of alcoholic beverages is prohibited at any BCA-controlled site.

Personal Hygiene

The following personal hygiene requirements will be observed:

Water Supply: A water supply adhering to the following requirements will be utilized:

- An adequate supply of potable water will be available for field personnel consumption.
- Potable water can be provided in the form of water bottles, canteens, water coolers, or drinking fountains. Where drinking fountains are not available, individual-use cups will be provided as well as adequate disposal containers. Potable water containers will be properly identified in order to distinguish them from non-potable water sources.
- Non-potable water may be used for hand washing and cleaning activities. Nonpotable water will not be used for drinking purposes. All containers of non-potable water will be marked with a label stating:

Non-Potable Water
Not Intended for Drinking Water Consumption

Toilet Facilities:

- A minimum of one toilet will be provided for every 20 personnel on site, with separate toilets maintained for each sex except where there are less than 5 total personnel on site. For mobile crews where work activities and locations permit transportation to nearby toilet facilities on-site facilities are not required.

Washing Facilities:

- Employees will be provided washing facilities (e.g., buckets with water and Alconox) at each work location. The use of water and hand soap (or similar substance) will required by all employees following exit from the Exclusion Zone, prior to breaks, and at the end of daily work activities.

Buddy System

All field personnel will use the buddy system when working within any controlled work area. Personnel belonging to another organization on site can serve as "buddies" for BCA personnel. Under no circumstances will any employee be present alone in a controlled work area.

7.2 Heat and Cold Stress

Heat and cold stress may vary based upon work activities, PPE/clothing selection, geographical locations, and weather conditions. To reduce the potential of developing heat/cold stress, be aware of the signs and symptoms of heat/cold stress and watch fellow employees for signs of heat/cold stress.

Heat stress can be a significant field site hazard, particularly for non-acclimated personnel operating in a hot, humid environment. Site personnel will be instructed in the identification of a heat stress victim, the first-aid treatment procedures for the victim and the prevention of heat stress casualties. Work-rest cycles will be determined, and the appropriate measures taken to prevent heat stress.

7.3 Responding to Heat-Related Illness

The guidance below will be used in identifying and treating heat-related illness.

Heat- Related Illness	Description	First Aid
Mild Heat Strain	The mildest form of heat-related illness. Victims exhibit irritability, lethargy, and significant sweating. The victim may complain of headache or nausea. This is the initial stage of overheating, and prompt action at this point may prevent more severe heat-related illness from occurring.	• Provide the victim with a work break during which he/she may relax, remove any excess protective clothing, and drink cool fluids. • If an air-conditioned spot is available, this is an ideal break location. • Once the victim shows improvement, he/she may resume working; however, the work pace should be moderated to prevent recurrence of the symptoms.
Heat Exhaustion	Usually begins with muscular weakness and cramping, dizziness, staggering gait, and nausea. The victim will have pale, clammy moist skin and may perspire profusely. The pulse is weak and fast and the victim may faint unless they lie down. The bowels may move Involuntarily.	• Immediately remove the victim from the work area to a shady or cool area with good air circulation (avoid drafts or sudden chilling). • Remove all protective outerwear. • Call a physician. • Treat the victim for shock. (Make the victim lie down, raise his or her feet 6–12 inches, and keep him or her cool by loosening all clothing).
Heat Stroke	The most serious of heat illness, heat stroke represents the collapse of the body's cooling mechanisms. As a result, body temperature may rise to 104 degrees Fahrenheit or higher. As the victim progresses toward heat stroke, symptoms such as headache, dizziness, nausea can be noted, and the skin is observed to be dry, red, and hot. Sudden collapse and loss of consciousness follows quickly and death is imminent if exposure continues. Heat stroke can occur suddenly	• Immediately evacuate the victim to a cool and shady area. • Remove all protective outerwear and as much personal clothing as decency permits. • Lay the victim on his or her back with the feet slightly elevated. • Apply cold wet towels or ice bags to the head, armpits, and thighs. • Sponge off the bare skin with cool water or rubbing alcohol, if available. • The main objective is to cool without chilling the victim. • Give no stimulants or hot drinks. • Since heat stroke is a severe medical condition requiring professional medical attention, emergency medical help should be summoned immediately to provide onsite treatment of the victim and proper transport to a medical facility.

8.0 PHYSICAL HAZARDS AND MITIGATION PROCEDURES

Safe work practices in compliance with OSHA standards and this document will be used at all times. The first aid kit and fire extinguisher are to be on site at all times. The following table lists the anticipated hazards and the associated safety rules for proper control.

Hazard Description	Potential Result	Control Measure
Tool Handling	Cuts, contusions, bruises	Wear gloves, steel-toed boots and safety glasses
Vehicle Traffic	Impact, getting struck by vehicle	Set up safety cones around well being sampled. Communicate activities with any onsite personnel. Wear reflective vest. Use truck or van as a shield if possible. Set up snow fence for each location where pedestrian walkways are affected and cover all openings or secure with snow fence during all breaks or overnight.
Heat/Cold	Heat stress/frostbite	Heat: Take frequent breaks and drink plenty of fluids. Watch for signs/symptoms of heat stress (fainting, dizziness, excessive sweating) Cold: Wear several layers of clothing, do not work in excessive cold, take frequent breaks.
Slip, trip and fall	Bruising, sprained ankle/foot/knee	Be aware of surroundings and practice good housekeeping measures around the site area to minimize items that pose a trip hazard.
Splash	Exposure to contaminants in the groundwater – dermal and/or eye	Wear gloves and safety glasses during purging of well and sample collection.
Hazardous Energy Control	Personal injury, electrocution	Use lockout/tagout controls to ensure that hazardous energy sources (electrical) are controlled prior to valve removal activities, including electrical and water pressure. All underground utilities should be marked prior to intrusive activities. A site walk-through should identify all overhead power lines.
Heavy Equipment	Struck by	Keep aware of the location of heavy equipment at all times. If overhead activities are taking place (drilling, digging) hard hats will be used.
Fire and Explosion	Flammable vapors from petroleum may ignite	Monitor for the presence of flammable vapors with an explosimeter. Fire extinguishers should be available. Evacuate the area immediately, call 911 and evaluate the situation.
Noise/Hearing Protection	Active drilling and other processes may exceed noise exposure standard of 85 decibels	Wear appropriate hearing protection.
Biological Hazards	Poisonous vegetation and/or stinging/biting insects or animals	Keep aware of surroundings and if bite or sting takes place seek first aid and/or medical attention

9.0. CHEMICAL HAZARDS POTENTIALLY ON SITE

9.1 Waste Characterization

Potential hazards for each of the tasks presented below are assessed. As work items are being performed, continued monitoring and observation will be used to determine if conditions change. Site Safety Officer will be responsible for continued assessment, and work practice modification in the event that unsafe work practices are observed. The following site activities are anticipated:

- Install groundwater probes
- Sample soil
- Sample groundwater

9.2 Hazard Evaluation

Chemicals of Concern: Identify all chemicals that are present or suspected to be present on site and the maximum concentrations detected in soil or water.

Chemical Name	TLV/PEL (8-hour TWA exposure limit for inhalation exposure in breathing zone)	Maximum Concentration in Soil (mg/kg or ppm)	Maximum Concentration in Water (mg/l or ppm)	Health Hazard/Comments
VOCs	Varies	TBD	TBD	Varies
SVOCs/PAHs	Varies	TBD	TBD	Varies
Metals	Varies	TBD	TBD	Varies

Is free product onsite? __ Yes __No __X_ Unsure

Will work tasks be performed inside buildings/enclosures? _ __ Yes _X_ No

Is there evidence that contaminants present could cause vapor problems in structures on-site? __Yes __ No _X_ Unsure

If Yes, is building mechanically ventilated? ___Yes ___No _X_ Unsure

10.0 BIOLOGICAL HAZARDS AND MITIGATION PROCEDURES

Contact with animals, insects, and plants can cause injury and illness to personnel. Care must be taken to ensure that these types of injuries are avoided. Some examples of biological hazards include:

- Wild animals, such as snakes, raccoons, squirrels, and rats. These animals not only can bite and scratch, but can carry transmittable diseases (e.g., rabies). Avoid the animals whenever possible. If bitten, go to the nearest medical facility.

- Insects such as mosquitoes, ticks, bees, and wasps. Mosquitoes can potentially carry and transmit the West Nile Virus or Eastern Equine Encephalitis (EEE). Ticks can transmit Lyme disease or Rocky Mountain Spotted Fever. Bees and wasps can sting by injecting venom, which causes some individuals to experience anaphylactic shock (an extreme allergic reaction). Whenever you will enter areas that provide a habitat for insects (e.g., grass areas, woods), wear light-colored clothing, long pants and shirt, and spray exposed skin areas with a DEET-containing repellent. Keep away from high grass wherever possible. Keep your eyes and ears open for bee and wasp nests. If bitten by insects, see a doctor if there is any question of an allergic reaction.

- Plants such as poison ivy and poison oak can cause severe rashes on exposed skin. Be careful where you walk, wear long pants, and minimize touching exposed skin with your hands after walking through thickly vegetated areas until after you have thoroughly washed your hands with soap and water.

11.0 ADDITIONAL HAZARDS

The following daily log should be filled out whenever an unexpected hazard is encountered. Include injuries, PPE used, or work stoppages caused by unsafe conditions.

Hazard Observed	Date	Observed by (Print Name)	Mitigation Taken/PPE Used

12.0 LIST OF FIELD ACTIVITIES

The following is a list of filed activities anticipated for this project:

- The first field activity in this investigation will be utility location. Because this is not an invasive activity, this Site Health and Safety Plan will not be applied to the utility locating contractor.

- Pre-marking groundwater probe locations will be performed by BCA. This is also not an invasive activity and no hazards are anticipated.

- Geophysical Survey. This is not an invasive activity and no hazards are anticipated. This activity will be performed by a subcontractor and overseen by BCA.

- Groundwater probe installation. This activity will be performed by BCA in the pre-marked areas.

- Groundwater sampling. This activity will be performed by BCA.

- Soil sampling. This activity will be performed by BCA.

13.0 SITE DESCRIPTION

Type of Facility (describe):	Warehouse
Type of Facility (describe):	**Commercial Building**
Active or Closed/Abandoned:	**Active**
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	**3 parcels, 1.7 acres, w/ one (1) building, paved lot, overhead utilities**
List any site access restrictions:	**None**

14.0 PERSONNEL PROTECTIVE GEAR/ENGINEERING CONTROLS

14.1 Personnel Protective Gear

Level D:

Soil concentrations in previous investigations are not expected to cause health risks if handled carefully. Sampling can be performed using modified Level D protection. The following items are needed for modified Level D.

- Hard hat (for overhead hazard activities)
- Steel-toe work boots
- Coveralls and/or long pants with short sleeved shirts (at a minimum)
- Eye protection when a splash hazard exists
- Hearing protection during active drilling or other loud operations
- Nitrile gloves for sampling and/or contact with soil and groundwater.

Modifications:

Modifications to this level of protection will be made if site conditions and/or contamination levels warrant an upgrade in protection level.

Level C:

If site conditions warrant, an upgrade to level C will be made if air monitoring equipment indicates respiratory protection is required. Air-purifying respirators with organic vapor cartridges will be used in this situation. The MSDS for that substance shall be consulted to determine the appropriate personal protective equipment (i.e. chemical resistant coveralls/gloves, chemical goggles, respiratory protection).

Surveillance Equipment and Materials:

Photo Ionization Detector

Work Limitations (Time of Day, etc.):

All sampling operations will be conducted during daylight hours. No smoking or eating during soil handling procedures.

14.1.1 PPE Donning and Doffing Information

The following information is to provide field personnel with helpful hints that, when applied, make donning and doffing of PPE a safe and manageable task:

- Never cut disposable booties from your feet with basic utility knives. This has resulted in workers cutting through the booty and the underlying sturdy leather work boot, resulting in significant cuts to the legs/ankles. Recommend using a pair of scissors or a package/letter opener (cut above and parallel with the work boot) to start a cut in the edge of the booty, then proceed by manually tearing the material down to the sole of the booty for easy removal.

- When applying duct tape to PPE interfaces (wrist, lower leg, around respirator, etc.) and zippers, leave approximately one inch at the end of the tape to fold over onto

  itself. This will make it much easier to remove the tape by providing a small handle to grab while still wearing gloves. Without this fold, trying to pull up the tape end with multiple gloves on may be difficult and result in premature tearing of the PPE.

- Have a "buddy" check your ensemble to ensure proper donning before entering controlled work areas. Without mirrors, the most obvious discrepancies can go unnoticed and may result in a potential exposure situation.

- Never perform personal decontamination with a pressure washer.

14.2 Medical Surveillance Requirements

All personnel must have completed the appropriate medical monitoring requirements as specified in 29 CFR 1910.120. Documentation of medical monitoring is the responsibility of each employer.

14.3 Engineering Control

The engineering control to prevent pedestrian/general population from exposure to hazards at the work site is Site Control.

14.3.1 Site Control Measures

Site controls establish the hazardous area perimeter and prevent access or exposure by unauthorized personnel or the public. The site map is attached to the Field Instructions and is incorporated as part of the HASP. The "buddy system" is to be used throughout those site operations that require it.

Site Entry Procedures: Notify property owner before mobilizing to the site.

Perimeter establishment/identification: Area of site east of the building will be work zone perimeter. See site map and field instructions attached.

An exclusion zone, contamination reduction zone and support zone will be identified for each site activity.

14.3.2 Emergency First Aid Procedures

If eye irritation, nausea, vomiting, dizziness, unusual odors or any other unusual mental or physical sensations are noticed, seek medical assistance.

Inhalation: Move person to fresh air, seek medical assistance.
Ingestion: Do not induce vomiting, seek medical attention.
Eyes: Flush with copious amounts of water.
Skin: Wash with soap and water.

15.0 AIR MONITORING REQUIREMENTS

Where VOC's are present, all soil samples will be field screened for semi-volatile organics using a photoionization detector (PID). During soil sample collection, it is expected that headspace gasses will be below the action level. However, during the course of soil sampling, if headspace gasses exceed 100 ppm, breathing zone monitoring will be conducted. If volatile gasses are detected in the breathing zone, the work activities work will stop and breathing zone gasses will be monitored using the PID or one of the other detectors outlined below. Further work may be conducted after elimination of all ignition sources, increasing the monitoring frequency, or elevating the level of PPE.

Instrumentation Available for Higher Level Air Monitoring:

INSTRUMENT	MANUFACTURER/MODEL*	SUBSTANCES DETECTED
Photo Ionization Detector (PID)	**RAE Systems mini-RAE Photovac Microtip HNu Model Hnu (10.2 eV Lamp)**	**Petroleum Hydrocarbons Organic Solvents**
Flame Ionization Detector (FID)	**Foxboro**	**Petroleum Hydrocarbons Organic Solvents**
Combustible Gas Indicator (CGI) May Be Combined with Individual or Multi-gas Detectors.	**TBD**	**Explosivity**
Individual Gas Detectors	**TBD**	**Oxygen (O_2) Carbon Monoxide (CO) Hydrogen Sulfide (H_2S) Cyanide Gases (CN^-)**
Particulate Monitor	**MIE Model PDM-3 mini-RAM**	**Aerosols, mist, dust, and fumes**
Colorimetric Detector Tubes	**Sensidyne Draeger**	**Benzene 0.5–10 ppm**

16.0 DECONTAMINATION PROCEDURES

Decontamination Procedures:

Contamination may result from walking through contaminated soils or liquids, splashing liquids during sampling, or use of or contact with contaminated equipment.

Decontamination procedures for the following tasks will be observed onsite:

- **Soil Probe Sampling**: Dedicated, disposable equipment will be used to the extent practicable. If non-dedicated equipment is used, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.

- **Groundwater Sampling**: All non-dedicated equipment will be decontaminated with a detergent wash and distilled water rinse before and between sampling.

- **Shallow Soil Sampling**: When a hand auger is used during soil sampling, it will be decontaminated with a detergent wash and distilled water rinse before and between sampling.

- **PPE**: All contaminated, disposable clothing will be properly bagged for disposal and left onsite for proper disposal. The PPE may be added to the soil drums for disposal.

17.0 WASTE STORAGE/DISPOSAL

Investigation-derived Material Disposal:

The purge and decontamination water, and disposable protective gear are to be placed in 55 - gallon drums, labeled and stored on site pending the receipt of the laboratory analysis. Free product and contaminated water must remain on-site until the proper disposal method is determined.

The drums of investigative waste will be hauled by a contractor who will be subject to the provisions of this site health and safety plan. Waste disposal will be performed in a manor appropriate to the waste characteristic identified by waste profiling.

17.1 Spill Containment Program

No anticipated spills or releases of hazardous chemicals are associated with this project. Any spills will be contained and drummed for proper disposal.

18.0 DOCUMENTS EXPECTED TO BE COMPLETED

The Site Safety Officer will maintain a master Site Health and Safety Plan which will be updated with the Daily Log (Section 11.0) and daily sign in sheets. In the event that site conditions warrant updating this Site Health and Safety Plan, updated sections will be appended to this plan. The master Site Health and Safety Plan will be archived in the project file at the offices of BCA for ten years following the end of the project.

Other documents which will be maintained include field books, boring logs, groundwater sampling sheets, contractor provided MSDSs, and correspondence.

19.0 APPROVALS

I, the undersigned, attest that I am familiar with the contents of this Health and Safety Plan and do agree to administrate the procedures described herein.

Plan Prepared by: _____ Date: 5/14/2019

Plan Approved by: _____ Date: 5/14/2019

Health and Safety Officer: _____ Date: 5/14/2019

20.0 EMPLOYEE ACKNOWLEDGMENT

The designated BCA employee shall be responsible for informing all individuals entering the exclusion zone of the contents of this plan, and ensuring each person signs the employee acknowledgment form. By signing this form, individuals are recognizing the hazards present on site and the policies and procedures required to minimize exposure or adverse affects of these hazards.

I have read the site health and safety plan and have been briefed and fully understand all of the following aspects of the project:

Hazards associated with the project:

1. Personal protective equipment;
2. Emergency procedures/contacts;
3. Project team-member responsibilities; and,
4. Work zones and decontamination procedures.

I have undergone medical monitoring and have been respirator fit-tested in the last year.

Form must be signed each day on site.

Signature:_____ Date:_____

Signature:_____ Date:_____

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Appendix B

Soil Boring Logs

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-1
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 19-146	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Enviro-Dynamics	**Driller** Rob	**Ground Elevation**	**Total Drilled Depth** 13.34'
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 5/16/2019 — 5/16/2019
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** 7.62'	
		Logged By: R. Manny	**Checked by/Date** J. Teuschler 6-28-19

Location Description
Easting 540098.913 Northing 4335235.843

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0					
		Concrete			
		Fine-Medium Brown Sand		0.0	
		Gravel and Fine Sand Gray	30%		
				0.0	
5		Black Sand and Gravel/Brick Fill			Moist @6-7'
				0.0	VOC's Sampled @ 6-7'
			30%		Smear Zone @ 7'
		Stiff Brown Clay (CL)		0.0	
		Soft Gray Clay (CL)			
10					VOC's Sampled @ 10-11'
		Stiff Brown Clay (CL)	100%	0.0	
		Soft Brown Clay (CL)			
		Tan Clayey Sand		0.0	
		BTH 13.34'			Refusal @ 13'
		Installed 1" pvc temporary well w/ 10' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

BCA Environmental Consultants, LLC
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Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-2
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 19-146	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Enviro-Dynamics	**Driller** Rob	**Ground Elevation**	**Total Drilled Depth** 8.21'
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 5/16/2019 — 5/16/2019
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** Dry	
		Logged By: R. Manny	**Checked by/Date** J. Teuschler 6-28-19

Location Description
Easting 540095.661 Northing 4335167.717

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt	60%	0.0	
		Gravel Fill w/ some Fines		1.8	VOC's Sampled @ 2-3'
		Fine - Med. Brown Sand		0.0	
		Brown Clay w/ Gravel			
5		Pulverized Concrete	2%	0.0	
		Concrete & Rock Fragments			Refusal @ 7.5'
10		**BTH 8.21'** Installed 1" pvc temporary well w/ 5' slotted screen. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

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7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-3
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	19-146
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Enviro-Dynamics
Driller	Rob
Ground Elevation	
Total Drilled Depth	10.38'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	5/16/2019 5/16/2019
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	9.68'
Logged By:	R. Manny
Checked by/Date	J. Teuschler 6-28-19
Location Description	Easting 540159.978 Northing 4335178.352

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0					
		Asphalt			
		Soft Brown Clay, some CAC and Gravel		0.0	
		Very Stiff Brown/Orange Clay (CL)	95%	0.0	
5				0.0	
		Very Stiff Brown/Orange Clay (CL) w/ Gravel	100%		VOC's Sampled @ 7-9'
				0.0	Smear Zone @ 9'
					VOC's Sampled @ 9-10.5'
10		Brown Sandy Clay	100%	0.0	
		BTH 10.38'			Refusal @ 10.5'
		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

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Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-4
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 19-146	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Enviro-Dynamics	**Driller** Rob	**Ground Elevation**	**Total Drilled Depth** 10.92
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 5/16/2019 — 5/16/2019
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** 8.61'	
		Logged By: R. Manny	**Checked by/Date** J. Teuschler 6-28-19

Location Description
Easting 540160.876 Northing 4335218.34

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt, Stiff Clay Fill, Brick Fragments	85%	0.0	
				2.5	
		Stiff Brown/Green Clay (CL)		10.5	
5				129.0	
		Stiff Brown Clay (CL) Mottled Gray, Odor	100%	168.0	
				1217.0	VOC's Sampled @ 8-9'
					VOC's Sampled @ 9-10.5'
10		Stiff Gray Clay (CL), Odor	85%	190.0	Smear Zone @ 10.5'
		Black Clay - Staining, Odor		245.0	
		BTH 10.92'			Refusal @ 11'
		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-5
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 19-146	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Enviro-Dynamics	**Driller** Rob	**Ground Elevation**	**Total Drilled Depth** 18.76'
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 5/16/2019 — 5/16/2019
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** 7.60'	
		Logged By: R. Manny	**Checked by/Date** J. Teuschler 6-28-19

Location Description
Easting 540162.187 Northing 4335234.099

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt, Gravel Fill, w/ Sand and Brick			
		Soft Brown Clay (CL)	75%	0.0	
5		Stiff Brown Clay (CL)		0.0	
		Soft Dark Brown Clay (CL) Mottled Gray, Odor	100%	925.0	VOC's Sampled @ 9-11'
10				1258.0	Smear Zone @ 11.5'
		Soft Greenish Brown Clay (CL)	80%		VOC's Sampled @ 11-13'
15			75%	5.0	
				5.0	
		BTH 18.76'			Refusal @ 18.5'
20		Installed 1" pvc temporary well w/ 10' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
25					

Appendix C

GPS Data

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

GPS Data Table

Site/Facility Name: **Commercial Building**
Site Location: **216 S College Ave**
Site/Facility ID:
OLQ Program:
Purpose of Data Collection: Soil/Groundwater Sample Locations

Data Collector Name: Jacob Teuschler
Data Processor Name: David Scovel, LPG

Projection: UTM Zone 16N
Datum: NAD 83 (CORS96)
Units: Meters
GPS Reciever Brand/Model: Nomad 900 G
Reciever Type: Mapping Grade GPS

Point Type	Name	Depth Feet	Refusal (Bedrock)	Groundwater Obtained	Description/Notes	Max PDOP	Correction Method	Instrument	Date	Time	Total Positions	Vert Precision	Horiz Precision	Standard Deviation	Easting meters	Northing meters	HAE meters
Probes	SP- 1	13.5	Yes	Yes		65	Postprocessed Code	Nomad	5/17/2019	01:08:39pm	313	2.2	3.9	1.023502	540098.913	4335235.843	233.957
Probes	SP- 2	8.25	Yes	No		5.8	Postprocessed Code	Nomad	5/17/2019	01:15:57pm	301	1.6	2.6	2.12389	540095.661	4335167.717	232.352
Probes	SP- 3	10.5	Yes	Yes		6.6	Postprocessed Code	Nomad	5/17/2019	01:22:14pm	301	1.3	2.8	2.345951	540159.978	4335178.352	231.324
Probes	SP- 4	11	Yes	Yes		11	Postprocessed Code	Nomad	5/17/2019	01:28:06pm	1380	1.3	3.1	1.944073	540160.876	4335218.340	231.514
Probes	SP- 5	18.75	Yes	Yes		2.3	Postprocessed Code	Nomad	5/17/2019	02:11:53pm	301	1.2	2.2	0.769328	540162.187	4335234.099	229.396

NAD83 (CORS96)
Horizontal
Continuously Operating Reference Stations Readjustment of NAD 83

Appendix D

Groundwater Sampling Logs

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

Groundwater Sampling Logs

Site Name: Commercial Building
Site Address: 216 South College Ave., Bloomington, IN
BCA Project Number: 19-146
IDEM Site Number:
Sampled By: Rod Manny, Jacob Teuschler
Sampling Equipment: Geotech stainless steel .625 Bladder Pump - disposable poly dual tube - In-Situ SmarTROLL MP Sonde
*Dedicated disposable tubing in all wells

Sample Location	GW Starting Depth	Estimated Flow Rate	Pump Start Time	Temperature Deg F	Specific Conductivity mS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Sample Date	Total Well Depth	Top of Well Screen	Well Screen Length	Pump Intake Depth	Notes
SP-1	7.62	360 mL/min	11:27						5/17/2019	13.34	3.34	10.00	10.84	VOCs, SVOCs, PAHs, 14 Metals, CrVI
	8.80		11:30	60.34	3.495	0.30	7.38	-119.4						1.75 gal. purged
	8.80		11:33	60.32	3.437	0.22	7.38	-122.5						Clear / Odorless
	8.82		11:36	60.24	3.399	0.18	7.38	-124.6						
	8.92		11:39	60.35	3.359	0.16	7.38	-126.3						
	8.92		11:42	60.46	3.332	0.15	7.38	-127.5						
	8.92		11:45	60.48	3.297	0.14	7.38	-128.5	Sampled					

SP-2 Dry hole.

SP-3 Unable to support low flow due to poor recharge. Pumped dry twice. Sampled @1310 on 5/17/2019 for VOCs, SVOCs, PAHs, and Metals. Clear / Odorless

SP-4 Unable to support low flow due to poor recharge. Pumped dry twice. Sampled @1345 on 5/17/2019 for VOCs, SVOCs, PAHs, 14 Metals, and CrVI. Clear / Strong Odor

SP-5	7.60	150 mL/min	9:53						5/17/2019	18.76	8.76	10.00	13.76	VOCs, SVOCs, PAHs, 14 Metals, CrVI
	8.06		9:56	63.61	2.408	0.35	7.36	-65.4						1.5 gal.purged
	8.22		9:59	63.69	2.374	0.27	7.12	-50.9						Slightly Cloudy / Strong Odor
	8.33		10:02	63.55	2.426	0.2	7.05	-62.3						
	8.36		10:05	63.68	2.465	0.18	7.04	-75.6						
	8.39		10:08	63.78	2.498	0.16	7.04	-87.2						
	8.42		10:11	63.75	2.515	0.14	7.06	-97.3						
	8.35		10:14	64.02	2.527	0.13	7.06	-102.8						
	8.35		10:17	64.76	2.532	0.13	7.07	-107.4						
	8.34		10:20	64.93	2.525	0.12	7.07	-109.6						
	8.33		10:23	65.22	2.513	0.12	7.07	-110	Sampled					

Appendix E

Analytical Laboratory Reports

Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

LSAI Labs, LLC
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Lab Solutions for AnalyticalTesting & Issues

Bruce Carter and Associates
7202 East 87th St. STE 110
Indianapolis, IN 46256

June 4, 2019

Client Project Name: 19-146 / Bloomington

Dear Client,

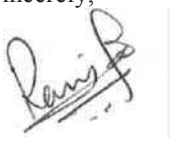
We are pleased to provide the attached analytical report(s) for the samples received May 20, 2019. All testing was performed as requested on the enclosed chain of custody. All methods cited were executed in full compliance with local, state, and EPA regulations. All control data met QA/QC criteria as outlined in EPA methodology. Please review the flag sections for any and all deviations from the Quality Control Data and Procedures.

LSAI Labs utilized the following EPA methodologies to perform the volatile organics (VOCs) assay in soil. Preservation technique referenced in table 4-1 of SW-846; sample preparation via 5035A; and sample analysis was performed using GC/MS via 8260B.

Please contact me with any questions, concerns, or comments regarding the attached analytical report.

Thank you for your business. We are committed to providing Lab Solutions and Services for your upcoming Analytical Testing needs and Issues.

Sincerely,



Ranjani Muralidharan, Ph.D.

Laboratory Manager
LSAI Labs, LLC

UDOH Lab Code: IN018112018-8

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FLAGS & DEFINITIONS

FLAGS & QUALIFIERS

B	Analyte detected in the blank
C	Result confirmed by reanalysis
DF	Dilution Factor: represents factor applied to sample aliquot due to a dilution 1 - reported result is a 2X dilution; 2 - reported result is a 5X dilution; 3 – reported result is a 10X dilution; 4 – reported result is a 20X dilution; 5 – reported result is a 25X dilution; 6 – reported result is a 50X dilution; 7 – reported result is a 100X dilution; 8 – reported result is a 250X dilution; 9 – reported result is a 500X dilution; 10 – reported result is a 1000X dilution; 11 – reported result is a 2500X dilution .
E	Concentration exceeds calibration range
J	Estimated value J1. ≥ Method Detection Limit (MDL) & < Limit of Quantitation (LOQ) or Reporting Limit (RL) J2. Estimated due to presence of interference
U	Analyzed for but not detected
N	Indicates presumptive evidence of a compound
P	Post-analysis pH measurement indicates insufficient VOA sample preservation.
R	Recovery outside control limits
R1	RPD value outside control limits
Rd	Duplicate analysis outside control limits

DEFINITIONS

RL: Reporting Limit
BMQL: Below Minimum Quantitation Level
LCS: Laboratory Control Sample
LCS (D): Laboratory Control Sample Duplicate
MS: Matrix Spike
MSD: Matrix Spike Duplicate
DUP: Sample Duplicate
RPD: Relative Percent Difference
ND: none detected
MPN: Most Probable Number
ppm: parts per million
ppb: parts per billion
TNI: The NELAC Institute
S: Surrogate

Note: A critical step involved in environmental analysis is the sample collection. It is required by the client that the submitted sample is truly representative of the replicate(s) and/or bulk material.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-1 (6-7)	Sample Collection Date/Time:	5/16/2019	12:35
LSAI Sample ID:	19-2863	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	20:38
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.84	3.84	5
Acrolein	< 0.0320	0.0320	5
Acrylonitrile	< 0.0320	0.0320	5
Benzene	< 0.0320	0.0320	5
Bromobenzene	< 0.0320	0.0320	5
Bromochloromethane	< 0.0320	0.0320	5
Bromodichloromethane	< 0.0320	0.0320	5
Bromoform	< 0.160	0.160	5
Bromomethane	< 0.160	0.160	5
n-Butanol	< 0.160	0.160	5
2-Butanone (MEK)	< 0.320	0.320	5
n-Butylbenzene	< 0.0320	0.0320	5
sec-Butylbenzene	< 0.0320	0.0320	5
tert-Butylbenzene	< 0.0320	0.0320	5
Carbon Disulfide	< 0.160	0.160	5
Carbon Tetrachloride	< 0.0320	0.0320	5
Chlorobenzene	< 0.0320	0.0320	5
Chloroethane (Ethyl Chloride)	< 0.160	0.160	5
2-Chloroethylvinylether	< 1.60	1.60	5
Chloroform	< 0.0320	0.0320	5
Chloromethane	< 0.0320	0.0320	5
2-Chlorotoluene	< 0.0320	0.0320	5
4-Chlorotoluene	< 0.0320	0.0320	5
1,2-Dibromo-3-chloropropane	< 0.160	0.160	5
Dibromochloromethane	< 0.0320	0.0320	5
1,2-Dibromoethane (EDB)	< 0.0320	0.0320	5
Dibromomethane	< 0.0320	0.0320	5
1,2-Dichlorobenzene	< 0.0320	0.0320	5

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LSAI SAMPLE ID continued 19-2863

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0320	0.0320	5
1,4-Dichlorobenzene	< 0.0320	0.0320	5
trans-1,4-Dichloro-2-butene	< 0.160	0.160	5
Dichlorodifluoromethane	< 0.0320	0.0320	5
1,1-Dichloroethane	< 0.0320	0.0320	5
1,2-Dichloroethane	< 0.0320	0.0320	5
1,1-Dichloroethene	< 0.0320	0.0320	5
cis-1,2-Dichloroethene	< 0.0320	0.0320	5
trans-1,2-Dichloroethene	< 0.160	0.160	5
1,2-Dichloropropane	< 0.160	0.160	5
1,3-Dichloropropane	< 0.0320	0.0320	5
2,2-Dichloropropane	< 0.0320	0.0320	5
1,1-Dichloropropene	< 0.160	0.160	5
1,3-Dichloropropene	< 0.160	0.160	5
Ethylbenzene	< 0.160	0.160	5
Ethylmethacrylate	< 0.0320	0.0320	5
Hexachloro-1,3-butadiene	< 0.160	0.160	5
n-Hexane	< 0.320	0.320	5
2-Hexanone	< 0.320	0.320	5
Iodomethane	< 0.160	0.160	5
Isopropylbenzene (Cumene)	< 0.0320	0.0320	5
p-Isopropyltoluene	< 0.0320	0.0320	5
Methylene chloride	< 0.640	0.640	5
4-Methyl-2-pentanone (MIBK)	< 0.0320	0.0320	5
Methyl tert-butyl ether (MTBE)	< 0.160	0.160	5
1-Methylnaphthalene	< 0.0320	0.0320	5
2-Methylnaphthalene	< 0.0320	0.0320	5
Naphthalene	< 0.0320	0.0320	5
n-Propylbenzene	< 0.0320	0.0320	5
Styrene	< 0.0320	0.0320	5
1,1,1,2-Tetrachloroethane	< 0.0320	0.0320	5
1,1,2,2-Tetrachloroethane	< 0.0320	0.0320	5
Tetrachloroethene	< 0.0320	0.0320	5
Toluene	< 0.160	0.160	5
1,2,3-Trichlorobenzene	< 0.0320	0.0320	5
1,2,4-Trichlorobenzene	< 0.0320	0.0320	5
1,1,1-Trichloroethane	< 0.160	0.160	5
1,1,2-Trichloroethane	< 0.0320	0.0320	5
Trichloroethene	< 0.160	0.160	5

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CERTIFICATE OF ANALYSIS

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LSAI SAMPLE ID continued 19-2863

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.160	0.160	5
1,2,3-Trichloropropane	< 0.160	0.160	5
1,2,4-Trimethylbenzene	< 0.0320	0.0320	5
1,3,5-Trimethylbenzene	< 0.0320	0.0320	5
Vinyl acetate	< 0.320	0.320	5
Vinyl chloride	< 0.0320	0.0320	5
Xylene M&P	< 0.160	0.160	5
Xylene Ortho	< 0.160	0.160	5
Total Xylenes	< 0.320	0.320	5
Percent Solids	78.10%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery	
Dibromofluoromethane	151%	R
1,2-Dichloroethane-d4	72.1%	
Toluene-d8	81.0%	
4-bromofluorobenzene	114%	

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-1 (10-11)	Sample Collection Date/Time:	5/16/2019	12:30
LSAI Sample ID:	19-2864	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/29/2019	22:39
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 0.163	0.163	
Acrolein	< 0.0014	0.0014	
Acrylonitrile	< 0.0014	0.0014	
Benzene	< 0.0014	0.0014	
Bromobenzene	< 0.0014	0.0014	
Bromochloromethane	< 0.0014	0.0014	
Bromodichloromethane	< 0.0014	0.0014	
Bromoform	< 0.0068	0.0068	
Bromomethane	< 0.0068	0.0068	
n-Butanol	< 0.0068	0.0068	
2-Butanone (MEK)	< 0.0135	0.0135	
n-Butylbenzene	< 0.0014	0.0014	
sec-Butylbenzene	< 0.0014	0.0014	
tert-Butylbenzene	< 0.0014	0.0014	
Carbon Disulfide	< 0.0068	0.0068	
Carbon Tetrachloride	< 0.0014	0.0014	
Chlorobenzene	< 0.0014	0.0014	
Chloroethane (Ethyl Chloride)	< 0.0068	0.0068	
2-Chloroethylvinylether	< 0.0677	0.0677	
Chloroform	< 0.0014	0.0014	
Chloromethane	< 0.0014	0.0014	
2-Chlorotoluene	< 0.0014	0.0014	
4-Chlorotoluene	< 0.0014	0.0014	
1,2-Dibromo-3-chloropropane	< 0.0068	0.0068	
Dibromochloromethane	< 0.0014	0.0014	
1,2-Dibromoethane (EDB)	< 0.0014	0.0014	
Dibromomethane	< 0.0014	0.0014	
1,2-Dichlorobenzene	< 0.0014	0.0014	

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LSAI SAMPLE ID continued 19-2864

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0014	0.0014	
1,4-Dichlorobenzene	< 0.0014	0.0014	
trans-1,4-Dichloro-2-butene	< 0.0068	0.0068	
Dichlorodifluoromethane	< 0.0014	0.0014	
1,1-Dichloroethane	< 0.0014	0.0014	
1,2-Dichloroethane	< 0.0014	0.0014	
1,1-Dichloroethene	< 0.0014	0.0014	
cis-1,2-Dichloroethene	< 0.0014	0.0014	
trans-1,2-Dichloroethene	< 0.0068	0.0068	
1,2-Dichloropropane	< 0.0068	0.0068	
1,3-Dichloropropane	< 0.0014	0.0014	
2,2-Dichloropropane	< 0.0014	0.0014	
1,1-Dichloropropene	< 0.0068	0.0068	
1,3-Dichloropropene	< 0.0068	0.0068	
Ethylbenzene	< 0.0068	0.0068	
Ethylmethacrylate	< 0.0014	0.0014	
Hexachloro-1,3-butadiene	< 0.0068	0.0068	
n-Hexane	< 0.0135	0.0135	
2-Hexanone	< 0.0135	0.0135	
Iodomethane	< 0.0068	0.0068	
Isopropylbenzene (Cumene)	< 0.0014	0.0014	
p-Isopropyltoluene	< 0.0014	0.0014	
Methylene chloride	< 0.0271	0.0271	
4-Methyl-2-pentanone (MIBK)	< 0.0014	0.0014	
Methyl tert-butyl ether (MTBE)	< 0.0068	0.0068	
1-Methylnaphthalene	< 0.0014	0.0014	
2-Methylnaphthalene	< 0.0014	0.0014	
Naphthalene	< 0.0014	0.0014	
n-Propylbenzene	< 0.0014	0.0014	
Styrene	< 0.0014	0.0014	
1,1,1,2-Tetrachloroethane	< 0.0014	0.0014	
1,1,2,2-Tetrachloroethane	< 0.0014	0.0014	
Tetrachloroethene	< 0.0014	0.0014	
Toluene	< 0.0068	0.0068	
1,2,3-Trichlorobenzene	< 0.0014	0.0014	
1,2,4-Trichlorobenzene	< 0.0014	0.0014	
1,1,1-Trichloroethane	< 0.0068	0.0068	
1,1,2-Trichloroethane	< 0.0014	0.0014	
Trichloroethene	< 0.0068	0.0068	

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LSAI SAMPLE ID continued 19-2864

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.0068	0.0068	
1,2,3-Trichloropropane	< 0.0068	0.0068	
1,2,4-Trimethylbenzene	< 0.0014	0.0014	
1,3,5-Trimethylbenzene	< 0.0014	0.0014	
Vinyl acetate	< 0.0135	0.0135	
Vinyl chloride	< 0.0014	0.0014	
Xylene M&P	< 0.0068	0.0068	
Xylene Ortho	< 0.0068	0.0068	
Total Xylenes	< 0.0136	0.0136	
Percent Solids	73.82%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	76.4%
1,2-Dichloroethane-d4	111%
Toluene-d8	88.1%
4-bromofluorobenzene	96.5%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-2 (2-4)	Sample Collection Date/Time:	5/16/2019	10:00
LSAI Sample ID:	19-2865	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/29/2019	22:58
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 0.127	0.127	
Acrolein	< 0.0011	0.0011	
Acrylonitrile	< 0.0011	0.0011	
Benzene	0.0059	0.0011	
Bromobenzene	< 0.0011	0.0011	
Bromochloromethane	< 0.0011	0.0011	
Bromodichloromethane	< 0.0011	0.0011	
Bromoform	< 0.0053	0.0053	
Bromomethane	< 0.0053	0.0053	
n-Butanol	< 0.0053	0.0053	
2-Butanone (MEK)	< 0.0106	0.0106	
n-Butylbenzene	< 0.0011	0.0011	
sec-Butylbenzene	< 0.0011	0.0011	
tert-Butylbenzene	< 0.0011	0.0011	
Carbon Disulfide	< 0.0053	0.0053	
Carbon Tetrachloride	< 0.0011	0.0011	
Chlorobenzene	< 0.0011	0.0011	
Chloroethane (Ethyl Chloride)	< 0.0053	0.0053	
2-Chloroethylvinylether	< 0.0530	0.0530	
Chloroform	< 0.0011	0.0011	
Chloromethane	< 0.0011	0.0011	
2-Chlorotoluene	< 0.0011	0.0011	
4-Chlorotoluene	< 0.0011	0.0011	
1,2-Dibromo-3-chloropropane	< 0.0053	0.0053	
Dibromochloromethane	< 0.0011	0.0011	
1,2-Dibromoethane (EDB)	< 0.0011	0.0011	
Dibromomethane	< 0.0011	0.0011	
1,2-Dichlorobenzene	< 0.0011	0.0011	

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LSAI SAMPLE ID continued 19-2865

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0011	0.0011	
1,4-Dichlorobenzene	< 0.0011	0.0011	
trans-1,4-Dichloro-2-butene	< 0.0053	0.0053	
Dichlorodifluoromethane	< 0.0011	0.0011	
1,1-Dichloroethane	< 0.0011	0.0011	
1,2-Dichloroethane	< 0.0011	0.0011	
1,1-Dichloroethene	< 0.0011	0.0011	
cis-1,2-Dichloroethene	< 0.0011	0.0011	
trans-1,2-Dichloroethene	< 0.0053	0.0053	
1,2-Dichloropropane	< 0.0053	0.0053	
1,3-Dichloropropane	< 0.0011	0.0011	
2,2-Dichloropropane	< 0.0011	0.0011	
1,1-Dichloropropene	< 0.0053	0.0053	
1,3-Dichloropropene	< 0.0053	0.0053	
Ethylbenzene	< 0.0053	0.0053	
Ethylmethacrylate	< 0.0011	0.0011	
Hexachloro-1,3-butadiene	< 0.0053	0.0053	
n-Hexane	< 0.0106	0.0106	
2-Hexanone	< 0.0106	0.0106	
Iodomethane	< 0.0053	0.0053	
Isopropylbenzene (Cumene)	< 0.0011	0.0011	
p-Isopropyltoluene	< 0.0011	0.0011	
Methylene chloride	< 0.0212	0.0212	
4-Methyl-2-pentanone (MIBK)	< 0.0011	0.0011	
Methyl tert-butyl ether (MTBE)	< 0.0053	0.0053	
1-Methylnaphthalene	< 0.0011	0.0011	
2-Methylnaphthalene	< 0.0011	0.0011	
Naphthalene	0.0019	0.0011	
n-Propylbenzene	< 0.0011	0.0011	
Styrene	< 0.0011	0.0011	
1,1,1,2-Tetrachloroethane	< 0.0011	0.0011	
1,1,2,2-Tetrachloroethane	< 0.0011	0.0011	
Tetrachloroethene	< 0.0011	0.0011	
Toluene	0.0066	0.0053	
1,2,3-Trichlorobenzene	< 0.0011	0.0011	
1,2,4-Trichlorobenzene	< 0.0011	0.0011	
1,1,1-Trichloroethane	< 0.0053	0.0053	
1,1,2-Trichloroethane	< 0.0011	0.0011	
Trichloroethene	< 0.0053	0.0053	

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LSAI SAMPLE ID continued 19-2865

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.0053	0.0053	
1,2,3-Trichloropropane	< 0.0053	0.0053	
1,2,4-Trimethylbenzene	0.0038	0.0011	
1,3,5-Trimethylbenzene	0.0015	0.0011	
Vinyl acetate	< 0.0106	0.0106	
Vinyl chloride	< 0.0011	0.0011	
Xylene M&P	0.0067	0.0053	
Xylene Ortho	< 0.0053	0.0053	
Total Xylenes	< 0.0106	0.0106	
Percent Solids	94.28%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	130%
1,2-Dichloroethane-d4	94.8%
Toluene-d8	65.7%
4-bromofluorobenzene	92.6%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-3 (7-9)	Sample Collection Date/Time:	5/16/2019	10:40
LSAI Sample ID:	19-2866	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	18:25
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.67	3.67	5
Acrolein	< 0.0305	0.0305	5
Acrylonitrile	< 0.0305	0.0305	5
Benzene	< 0.0305	0.0305	5
Bromobenzene	< 0.0305	0.0305	5
Bromochloromethane	< 0.0305	0.0305	5
Bromodichloromethane	< 0.0305	0.0305	5
Bromoform	< 0.153	0.153	5
Bromomethane	< 0.153	0.153	5
n-Butanol	< 0.153	0.153	5
2-Butanone (MEK)	< 0.305	0.305	5
n-Butylbenzene	< 0.0305	0.0305	5
sec-Butylbenzene	< 0.0305	0.0305	5
tert-Butylbenzene	< 0.0305	0.0305	5
Carbon Disulfide	< 0.153	0.153	5
Carbon Tetrachloride	< 0.0305	0.0305	5
Chlorobenzene	< 0.0305	0.0305	5
Chloroethane (Ethyl Chloride)	< 0.153	0.153	5
2-Chloroethylvinylether	< 1.53	1.53	5
Chloroform	< 0.0305	0.0305	5
Chloromethane	< 0.0305	0.0305	5
2-Chlorotoluene	< 0.0305	0.0305	5
4-Chlorotoluene	< 0.0305	0.0305	5
1,2-Dibromo-3-chloropropane	< 0.153	0.153	5
Dibromochloromethane	< 0.0305	0.0305	5
1,2-Dibromoethane (EDB)	< 0.0305	0.0305	5
Dibromomethane	< 0.0305	0.0305	5
1,2-Dichlorobenzene	< 0.0305	0.0305	5

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LSAI SAMPLE ID continued 19-2866

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0305	0.0305	5
1,4-Dichlorobenzene	< 0.0305	0.0305	5
trans-1,4-Dichloro-2-butene	< 0.153	0.153	5
Dichlorodifluoromethane	< 0.0305	0.0305	0
1,1-Dichloroethane	< 0.0305	0.0305	5
1,2-Dichloroethane	< 0.0305	0.0305	5
1,1-Dichloroethene	< 0.0305	0.0305	5
cis-1,2-Dichloroethene	< 0.0305	0.0305	5
trans-1,2-Dichloroethene	< 0.153	0.153	5
1,2-Dichloropropane	< 0.153	0.153	5
1,3-Dichloropropane	< 0.0305	0.0305	5
2,2-Dichloropropane	< 0.0305	0.0305	5
1,1-Dichloropropene	< 0.153	0.153	5
1,3-Dichloropropene	< 0.153	0.153	5
Ethylbenzene	< 0.153	0.153	5
Ethylmethacrylate	< 0.0305	0.0305	5
Hexachloro-1,3-butadiene	< 0.153	0.153	5
n-Hexane	< 0.305	0.305	5
2-Hexanone	< 0.305	0.305	5
Iodomethane	< 0.153	0.153	5
Isopropylbenzene (Cumene)	< 0.0305	0.0305	5
p-Isopropyltoluene	< 0.0305	0.0305	5
Methylene chloride	< 0.611	0.611	5
4-Methyl-2-pentanone (MIBK)	< 0.0305	0.0305	5
Methyl tert-butyl ether (MTBE)	< 0.153	0.153	5
1-Methylnaphthalene	< 0.0305	0.0305	5
2-Methylnaphthalene	< 0.0305	0.0305	5
Naphthalene	< 0.0305	0.0305	5
n-Propylbenzene	< 0.0305	0.0305	5
Styrene	< 0.0305	0.0305	5
1,1,1,2-Tetrachloroethane	< 0.0305	0.0305	5
1,1,2,2-Tetrachloroethane	< 0.0305	0.0305	5
Tetrachloroethene	< 0.0305	0.0305	5
Toluene	< 0.153	0.153	5
1,2,3-Trichlorobenzene	< 0.0305	0.0305	5
1,2,4-Trichlorobenzene	< 0.0305	0.0305	5
1,1,1-Trichloroethane	< 0.153	0.153	5
1,1,2-Trichloroethane	< 0.0305	0.0305	5
Trichloroethene	< 0.153	0.153	5

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LSAI SAMPLE ID continued 19-2866

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.153	0.153	5
1,2,3-Trichloropropane	< 0.153	0.153	5
1,2,4-Trimethylbenzene	< 0.0305	0.0305	5
1,3,5-Trimethylbenzene	< 0.0305	0.0305	5
Vinyl acetate	< 0.305	0.305	5
Vinyl chloride	< 0.0305	0.0305	5
Xylene M&P	< 0.153	0.153	5
Xylene Ortho	< 0.153	0.153	5
Total Xylenes	< 0.306	0.306	5
Percent Solids	81.84%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	98.5%
1,2-Dichloroethane-d4	97.0%
Toluene-d8	85.9%
4-bromofluorobenzene	86.7%

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CERTIFICATE OF ANALYSIS

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Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-3 (9-10.5)	Sample Collection Date/Time:	5/16/2019	10:45
LSAI Sample ID:	19-2867	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	18:43
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.76	3.76	5
Acrolein	< 0.0313	0.0313	5
Acrylonitrile	< 0.0313	0.0313	5
Benzene	< 0.0313	0.0313	5
Bromobenzene	< 0.0313	0.0313	5
Bromochloromethane	< 0.0313	0.0313	5
Bromodichloromethane	< 0.0313	0.0313	5
Bromoform	< 0.157	0.157	5
Bromomethane	< 0.157	0.157	5
n-Butanol	< 0.157	0.157	5
2-Butanone (MEK)	< 0.313	0.313	5
n-Butylbenzene	< 0.0313	0.0313	5
sec-Butylbenzene	< 0.0313	0.0313	5
tert-Butylbenzene	< 0.0313	0.0313	5
Carbon Disulfide	< 0.157	0.157	5
Carbon Tetrachloride	< 0.0313	0.0313	5
Chlorobenzene	< 0.0313	0.0313	5
Chloroethane (Ethyl Chloride)	< 0.157	0.157	5
2-Chloroethylvinylether	< 1.57	1.57	5
Chloroform	< 0.0313	0.0313	5
Chloromethane	< 0.0313	0.0313	5
2-Chlorotoluene	< 0.0313	0.0313	5
4-Chlorotoluene	< 0.0313	0.0313	5
1,2-Dibromo-3-chloropropane	< 0.157	0.157	5
Dibromochloromethane	< 0.0313	0.0313	5
1,2-Dibromoethane (EDB)	< 0.0313	0.0313	5
Dibromomethane	< 0.0313	0.0313	5
1,2-Dichlorobenzene	< 0.0313	0.0313	5

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LSAI SAMPLE ID continued 19-2867

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0313	0.0313	5
1,4-Dichlorobenzene	< 0.0313	0.0313	5
trans-1,4-Dichloro-2-butene	< 0.157	0.157	5
Dichlorodifluoromethane	< 0.0313	0.0313	5
1,1-Dichloroethane	< 0.0313	0.0313	5
1,2-Dichloroethane	< 0.0313	0.0313	5
1,1-Dichloroethene	< 0.0313	0.0313	5
cis-1,2-Dichloroethene	< 0.0313	0.0313	5
trans-1,2-Dichloroethene	< 0.157	0.157	5
1,2-Dichloropropane	< 0.157	0.157	5
1,3-Dichloropropane	< 0.0313	0.0313	5
2,2-Dichloropropane	< 0.0313	0.0313	5
1,1-Dichloropropene	< 0.157	0.157	5
1,3-Dichloropropene	< 0.157	0.157	5
Ethylbenzene	< 0.157	0.157	5
Ethylmethacrylate	< 0.0313	0.0313	5
Hexachloro-1,3-butadiene	< 0.157	0.157	5
n-Hexane	< 0.313	0.313	5
2-Hexanone	< 0.313	0.313	5
Iodomethane	< 0.157	0.157	5
Isopropylbenzene (Cumene)	< 0.0313	0.0313	5
p-Isopropyltoluene	< 0.0313	0.0313	5
Methylene chloride	< 0.627	0.627	5
4-Methyl-2-pentanone (MIBK)	< 0.0313	0.0313	5
Methyl tert-butyl ether (MTBE)	< 0.157	0.157	5
1-Methylnaphthalene	< 0.0313	0.0313	5
2-Methylnaphthalene	< 0.0313	0.0313	5
Naphthalene	< 0.0313	0.0313	5
n-Propylbenzene	< 0.0313	0.0313	5
Styrene	< 0.0313	0.0313	5
1,1,1,2-Tetrachloroethane	< 0.0313	0.0313	5
1,1,2,2-Tetrachloroethane	< 0.0313	0.0313	5
Tetrachloroethene	< 0.0313	0.0313	5
Toluene	< 0.157	0.157	5
1,2,3-Trichlorobenzene	< 0.0313	0.0313	5
1,2,4-Trichlorobenzene	< 0.0313	0.0313	5
1,1,1-Trichloroethane	< 0.157	0.157	5
1,1,2-Trichloroethane	< 0.0313	0.0313	5
Trichloroethene	< 0.157	0.157	5

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LSAI SAMPLE ID continued 19-2867

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.157	0.157	5
1,2,3-Trichloropropane	< 0.157	0.157	5
1,2,4-Trimethylbenzene	< 0.0313	0.0313	5
1,3,5-Trimethylbenzene	< 0.0313	0.0313	5
Vinyl acetate	< 0.313	0.313	5
Vinyl chloride	< 0.0313	0.0313	5
Xylene M&P	< 0.157	0.157	5
Xylene Ortho	< 0.157	0.157	5
Total Xylenes	< 0.314	0.314	5
Percent Solids	79.80%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	102%
1,2-Dichloroethane-d4	104%
Toluene-d8	84.9%
4-bromofluorobenzene	86.4%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-4 (8-9)	Sample Collection Date/Time:	5/16/2019	11:50
LSAI Sample ID:	19-2868	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	14:32
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.78	3.78	5
Acrolein	< 0.0315	0.0315	5
Acrylonitrile	< 0.0315	0.0315	5
Benzene	0.819	0.0315	5
Bromobenzene	< 0.0315	0.0315	5
Bromochloromethane	< 0.0315	0.0315	5
Bromodichloromethane	< 0.0315	0.0315	5
Bromoform	< 0.157	0.157	5
Bromomethane	< 0.157	0.157	5
n-Butanol	< 0.157	0.157	5
2-Butanone (MEK)	< 0.315	0.315	5
n-Butylbenzene	0.962	0.0315	5
sec-Butylbenzene	0.568	0.0315	5
tert-Butylbenzene	< 0.0315	0.0315	5
Carbon Disulfide	< 0.157	0.157	5
Carbon Tetrachloride	< 0.0315	0.0315	5
Chlorobenzene	< 0.0315	0.0315	5
Chloroethane (Ethyl Chloride)	< 0.157	0.157	5
2-Chloroethylvinylether	< 1.57	1.57	5
Chloroform	< 0.0315	0.0315	5
Chloromethane	< 0.0315	0.0315	5
2-Chlorotoluene	< 0.0315	0.0315	5
4-Chlorotoluene	< 0.0315	0.0315	5
1,2-Dibromo-3-chloropropane	< 0.157	0.157	5
Dibromochloromethane	< 0.0315	0.0315	5
1,2-Dibromoethane (EDB)	< 0.0315	0.0315	5
Dibromomethane	< 0.0315	0.0315	5
1,2-Dichlorobenzene	< 0.0315	0.0315	5

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LSAI SAMPLE ID continued 19-2868

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0315	0.0315	5
1,4-Dichlorobenzene	< 0.0315	0.0315	5
trans-1,4-Dichloro-2-butene	< 0.157	0.157	5
Dichlorodifluoromethane	< 0.0315	0.0315	5
1,1-Dichloroethane	< 0.0315	0.0315	5
1,2-Dichloroethane	< 0.0315	0.0315	5
1,1-Dichloroethene	< 0.0315	0.0315	5
cis-1,2-Dichloroethene	< 0.0315	0.0315	5
trans-1,2-Dichloroethene	< 0.157	0.157	5
1,2-Dichloropropane	< 0.157	0.157	5
1,3-Dichloropropane	< 0.0315	0.0315	5
2,2-Dichloropropane	< 0.0315	0.0315	5
1,1-Dichloropropene	< 0.157	0.157	5
1,3-Dichloropropene	< 0.157	0.157	5
Ethylbenzene	10.1	0.157	5
Ethylmethacrylate	< 0.0315	0.0315	5
Hexachloro-1,3-butadiene	< 0.157	0.157	5
n-Hexane	31.6	0.315	5
2-Hexanone	< 0.315	0.315	5
Iodomethane	< 0.157	0.157	5
Isopropylbenzene (Cumene)	2.19	0.0315	5
p-Isopropyltoluene	0.619	0.0315	5
Methylene chloride	< 0.629	0.629	5
4-Methyl-2-pentanone (MIBK)	< 0.0315	0.0315	5
Methyl tert-butyl ether (MTBE)	< 0.157	0.157	5
1-Methylnaphthalene	0.229	0.0315	5
2-Methylnaphthalene	0.794	0.0315	5
Naphthalene	0.342	0.0315	5
n-Propylbenzene	2.41	0.0315	5
Styrene	< 0.0315	0.0315	5
1,1,1,2-Tetrachloroethane	< 0.0315	0.0315	5
1,1,2,2-Tetrachloroethane	< 0.0315	0.0315	5
Tetrachloroethene	< 0.0315	0.0315	5
Toluene	< 0.157	0.157	5
1,2,3-Trichlorobenzene	< 0.0315	0.0315	5
1,2,4-Trichlorobenzene	< 0.0315	0.0315	5
1,1,1-Trichloroethane	< 0.157	0.157	5
1,1,2-Trichloroethane	< 0.0315	0.0315	5
Trichloroethene	< 0.157	0.157	5

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LSAI SAMPLE ID continued 19-2868

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.157	0.157	5
1,2,3-Trichloropropane	< 0.157	0.157	5
1,2,4-Trimethylbenzene	12.5	0.0315	5
1,3,5-Trimethylbenzene	3.59	0.0315	5
Vinyl acetate	< 0.315	0.315	5
Vinyl chloride	< 0.0315	0.0315	5
Xylene M&P	5.25	0.157	5
Xylene Ortho	< 0.157	0.157	5
Total Xylenes	5.25	0.314	5
Percent Solids	79.46%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	76.3%
1,2-Dichloroethane-d4	83.8%
Toluene-d8	97.1%
4-bromofluorobenzene	83.1%

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CERTIFICATE OF ANALYSIS

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Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-4 (9-10.5)	Sample Collection Date/Time:	5/16/2019	11:55
LSAI Sample ID:	19-2869	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	14:51
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.72	3.72	5
Acrolein	< 0.0310	0.0310	5
Acrylonitrile	< 0.0310	0.0310	5
Benzene	0.200	0.0310	5
Bromobenzene	< 0.0310	0.0310	5
Bromochloromethane	< 0.0310	0.0310	5
Bromodichloromethane	< 0.0310	0.0310	5
Bromoform	< 0.155	0.155	5
Bromomethane	< 0.155	0.155	5
n-Butanol	< 0.155	0.155	5
2-Butanone (MEK)	< 0.310	0.310	5
n-Butylbenzene	0.514	0.0310	5
sec-Butylbenzene	0.343	0.0310	5
tert-Butylbenzene	< 0.0310	0.0310	5
Carbon Disulfide	< 0.155	0.155	5
Carbon Tetrachloride	< 0.0310	0.0310	5
Chlorobenzene	< 0.0310	0.0310	5
Chloroethane (Ethyl Chloride)	< 0.155	0.155	5
2-Chloroethylvinylether	< 1.55	1.55	5
Chloroform	< 0.0310	0.0310	5
Chloromethane	< 0.0310	0.0310	5
2-Chlorotoluene	< 0.0310	0.0310	5
4-Chlorotoluene	< 0.0310	0.0310	5
1,2-Dibromo-3-chloropropane	< 0.155	0.155	5
Dibromochloromethane	< 0.0310	0.0310	5
1,2-Dibromoethane (EDB)	< 0.0310	0.0310	5
Dibromomethane	< 0.0310	0.0310	5
1,2-Dichlorobenzene	< 0.0310	0.0310	5

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LSAI SAMPLE ID continued 19-2869

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0310	0.0310	5
1,4-Dichlorobenzene	< 0.0310	0.0310	5
trans-1,4-Dichloro-2-butene	< 0.155	0.155	5
Dichlorodifluoromethane	< 0.0310	0.0310	5
1,1-Dichloroethane	< 0.0310	0.0310	5
1,2-Dichloroethane	< 0.0310	0.0310	5
1,1-Dichloroethene	< 0.0310	0.0310	5
cis-1,2-Dichloroethene	< 0.0310	0.0310	5
trans-1,2-Dichloroethene	< 0.155	0.155	5
1,2-Dichloropropane	< 0.155	0.155	5
1,3-Dichloropropane	< 0.0310	0.0310	5
2,2-Dichloropropane	< 0.0310	0.0310	5
1,1-Dichloropropene	< 0.155	0.155	5
1,3-Dichloropropene	< 0.155	0.155	5
Ethylbenzene	1.30	0.155	5
Ethylmethacrylate	< 0.0310	0.0310	5
Hexachloro-1,3-butadiene	< 0.155	0.155	5
n-Hexane	23.7	0.310	5
2-Hexanone	< 0.310	0.310	5
Iodomethane	< 0.155	0.155	5
Isopropylbenzene (Cumene)	0.860	0.0310	5
p-Isopropyltoluene	0.300	0.0310	5
Methylene chloride	< 0.619	0.619	5
4-Methyl-2-pentanone (MIBK)	< 0.0310	0.0310	5
Methyl tert-butyl ether (MTBE)	< 0.155	0.155	5
1-Methylnaphthalene	0.0978	0.0310	5
2-Methylnaphthalene	0.291	0.0310	5
Naphthalene	0.0746	0.0310	5
n-Propylbenzene	0.969	0.0310	5
Styrene	< 0.0310	0.0310	5
1,1,1,2-Tetrachloroethane	< 0.0310	0.0310	5
1,1,2,2-Tetrachloroethane	< 0.0310	0.0310	5
Tetrachloroethene	< 0.0310	0.0310	5
Toluene	< 0.155	0.155	5
1,2,3-Trichlorobenzene	< 0.0310	0.0310	5
1,2,4-Trichlorobenzene	< 0.0310	0.0310	5
1,1,1-Trichloroethane	< 0.155	0.155	5
1,1,2-Trichloroethane	< 0.0310	0.0310	5
Trichloroethene	< 0.155	0.155	5

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LSAI SAMPLE ID continued 19-2869

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.155	0.155	5
1,2,3-Trichloropropane	< 0.155	0.155	5
1,2,4-Trimethylbenzene	0.503	0.0310	5
1,3,5-Trimethylbenzene	0.322	0.0310	5
Vinyl acetate	< 0.310	0.310	5
Vinyl chloride	< 0.0310	0.0310	5
Xylene M&P	0.709	0.155	5
Xylene Ortho	< 0.155	0.155	5
Total Xylenes	0.709	0.310	5
Percent Solids	80.73%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	89.1%
1,2-Dichloroethane-d4	86.1%
Toluene-d8	85.4%
4-bromofluorobenzene	88.8%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-5 (9-11)	Sample Collection Date/Time:	5/16/2019	11:20
LSAI Sample ID:	19-2870	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	16:05
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.69	3.69	5
Acrolein	< 0.0307	0.0307	5
Acrylonitrile	< 0.0307	0.0307	5
Benzene	0.100	0.0307	5
Bromobenzene	< 0.0307	0.0307	5
Bromochloromethane	< 0.0307	0.0307	5
Bromodichloromethane	< 0.0307	0.0307	5
Bromoform	< 0.154	0.154	5
Bromomethane	< 0.154	0.154	5
n-Butanol	< 0.154	0.154	5
2-Butanone (MEK)	< 0.307	0.307	5
n-Butylbenzene	0.214	0.0307	5
sec-Butylbenzene	0.208	0.0307	5
tert-Butylbenzene	< 0.0307	0.0307	5
Carbon Disulfide	< 0.154	0.154	5
Carbon Tetrachloride	< 0.0307	0.0307	5
Chlorobenzene	< 0.0307	0.0307	5
Chloroethane (Ethyl Chloride)	< 0.154	0.154	5
2-Chloroethylvinylether	< 1.54	1.54	5
Chloroform	< 0.0307	0.0307	5
Chloromethane	< 0.0307	0.0307	5
2-Chlorotoluene	< 0.0307	0.0307	5
4-Chlorotoluene	< 0.0307	0.0307	5
1,2-Dibromo-3-chloropropane	< 0.154	0.154	5
Dibromochloromethane	< 0.0307	0.0307	5
1,2-Dibromoethane (EDB)	< 0.0307	0.0307	5
Dibromomethane	< 0.0307	0.0307	5
1,2-Dichlorobenzene	< 0.0307	0.0307	5

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LSAI SAMPLE ID continued 19-2870

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0307	0.0307	5
1,4-Dichlorobenzene	< 0.0307	0.0307	5
trans-1,4-Dichloro-2-butene	< 0.154	0.154	5
Dichlorodifluoromethane	< 0.0307	0.0307	5
1,1-Dichloroethane	< 0.0307	0.0307	5
1,2-Dichloroethane	< 0.0307	0.0307	5
1,1-Dichloroethene	< 0.0307	0.0307	5
cis-1,2-Dichloroethene	< 0.0307	0.0307	5
trans-1,2-Dichloroethene	< 0.154	0.154	5
1,2-Dichloropropane	< 0.154	0.154	5
1,3-Dichloropropane	< 0.0307	0.0307	5
2,2-Dichloropropane	< 0.0307	0.0307	5
1,1-Dichloropropene	< 0.154	0.154	5
1,3-Dichloropropene	< 0.154	0.154	5
Ethylbenzene	< 0.154	0.154	5
Ethylmethacrylate	< 0.0307	0.0307	5
Hexachloro-1,3-butadiene	< 0.154	0.154	5
n-Hexane	4.15	0.307	5
2-Hexanone	< 0.307	0.307	5
Iodomethane	< 0.154	0.154	5
Isopropylbenzene (Cumene)	0.509	0.0307	5
p-Isopropyltoluene	0.273	0.0307	5
Methylene chloride	< 0.614	0.614	5
4-Methyl-2-pentanone (MIBK)	< 0.0307	0.0307	5
Methyl tert-butyl ether (MTBE)	< 0.154	0.154	5
1-Methylnaphthalene	< 0.0307	0.0307	5
2-Methylnaphthalene	0.0753	0.0307	5
Naphthalene	< 0.0307	0.0307	5
n-Propylbenzene	0.515	0.0307	5
Styrene	< 0.0307	0.0307	5
1,1,1,2-Tetrachloroethane	< 0.0307	0.0307	5
1,1,2,2-Tetrachloroethane	< 0.0307	0.0307	5
Tetrachloroethene	< 0.0307	0.0307	5
Toluene	< 0.154	0.154	5
1,2,3-Trichlorobenzene	< 0.0307	0.0307	5
1,2,4-Trichlorobenzene	< 0.0307	0.0307	5
1,1,1-Trichloroethane	< 0.154	0.154	5
1,1,2-Trichloroethane	< 0.0307	0.0307	5
Trichloroethene	< 0.154	0.154	5

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LSAI SAMPLE ID continued 19-2870

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.154	0.154	5
1,2,3-Trichloropropane	< 0.154	0.154	5
1,2,4-Trimethylbenzene	0.0833	0.0307	5
1,3,5-Trimethylbenzene	0.0852	0.0307	5
Vinyl acetate	< 0.307	0.307	5
Vinyl chloride	< 0.0307	0.0307	5
Xylene M&P	< 0.154	0.154	5
Xylene Ortho	< 0.154	0.154	5
Total Xylenes	< 0.308	0.308	5
Percent Solids	81.39%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	89.4%
1,2-Dichloroethane-d4	86.1%
Toluene-d8	94.0%
4-bromofluorobenzene	89.0%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SB-5(9-11)DUP	Sample Collection Date/Time:	5/16/2019	11:20
LSAI Sample ID:	19-2871	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	16:24
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 3.58	3.58	5
Acrolein	< 0.0299	0.0299	5
Acrylonitrile	< 0.0299	0.0299	5
Benzene	0.105	0.0299	5
Bromobenzene	< 0.0299	0.0299	5
Bromochloromethane	< 0.0299	0.0299	5
Bromodichloromethane	< 0.0299	0.0299	5
Bromoform	< 0.149	0.149	5
Bromomethane	< 0.149	0.149	5
n-Butanol	< 0.149	0.149	5
2-Butanone (MEK)	< 0.299	0.299	5
n-Butylbenzene	0.478	0.0299	5
sec-Butylbenzene	0.436	0.0299	5
tert-Butylbenzene	< 0.0299	0.0299	5
Carbon Disulfide	< 0.149	0.149	5
Carbon Tetrachloride	< 0.0299	0.0299	5
Chlorobenzene	< 0.0299	0.0299	5
Chloroethane (Ethyl Chloride)	< 0.149	0.149	5
2-Chloroethylvinylether	< 1.49	1.49	5
Chloroform	< 0.0299	0.0299	5
Chloromethane	< 0.0299	0.0299	5
2-Chlorotoluene	< 0.0299	0.0299	5
4-Chlorotoluene	< 0.0299	0.0299	5
1,2-Dibromo-3-chloropropane	< 0.149	0.149	5
Dibromochloromethane	< 0.0299	0.0299	5
1,2-Dibromoethane (EDB)	< 0.0299	0.0299	5
Dibromomethane	< 0.0299	0.0299	5
1,2-Dichlorobenzene	< 0.0299	0.0299	5

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LSAI SAMPLE ID continued 19-2871

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0299	0.0299	5
1,4-Dichlorobenzene	< 0.0299	0.0299	5
trans-1,4-Dichloro-2-butene	< 0.149	0.149	5
Dichlorodifluoromethane	< 0.0299	0.0299	5
1,1-Dichloroethane	< 0.0299	0.0299	5
1,2-Dichloroethane	< 0.0299	0.0299	5
1,1-Dichloroethene	< 0.0299	0.0299	5
cis-1,2-Dichloroethene	< 0.0299	0.0299	5
trans-1,2-Dichloroethene	< 0.149	0.149	5
1,2-Dichloropropane	< 0.149	0.149	5
1,3-Dichloropropane	< 0.0299	0.0299	5
2,2-Dichloropropane	< 0.0299	0.0299	5
1,1-Dichloropropene	< 0.149	0.149	5
1,3-Dichloropropene	< 0.149	0.149	5
Ethylbenzene	< 0.149	0.149	5
Ethylmethacrylate	< 0.0299	0.0299	5
Hexachloro-1,3-butadiene	< 0.149	0.149	5
n-Hexane	18.9	0.299	5
2-Hexanone	< 0.299	0.299	5
Iodomethane	< 0.149	0.149	5
Isopropylbenzene (Cumene)	1.11	0.0299	5
p-Isopropyltoluene	0.473	0.0299	5
Methylene chloride	< 0.597	0.597	5
4-Methyl-2-pentanone (MIBK)	< 0.0299	0.0299	5
Methyl tert-butyl ether (MTBE)	< 0.149	0.149	5
1-Methylnaphthalene	0.0667	0.0299	5
2-Methylnaphthalene	0.146	0.0299	5
Naphthalene	< 0.0299	0.0299	5
n-Propylbenzene	0.885	0.0299	5
Styrene	< 0.0299	0.0299	5
1,1,1,2-Tetrachloroethane	< 0.0299	0.0299	5
1,1,2,2-Tetrachloroethane	< 0.0299	0.0299	5
Tetrachloroethene	< 0.0299	0.0299	5
Toluene	< 0.149	0.149	5
1,2,3-Trichlorobenzene	< 0.0299	0.0299	5
1,2,4-Trichlorobenzene	< 0.0299	0.0299	5
1,1,1-Trichloroethane	< 0.149	0.149	5
1,1,2-Trichloroethane	< 0.0299	0.0299	5
Trichloroethene	< 0.149	0.149	5

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LSAI SAMPLE ID continued 19-2871

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.149	0.149	5
1,2,3-Trichloropropane	< 0.149	0.149	5
1,2,4-Trimethylbenzene	< 0.0299	0.0299	5
1,3,5-Trimethylbenzene	0.0572	0.0299	5
Vinyl acetate	< 0.299	0.299	5
Vinyl chloride	< 0.0299	0.0299	5
Xylene M&P	< 0.149	0.149	5
Xylene Ortho	< 0.149	0.149	5
Total Xylenes	< 0.298	0.298	5
Percent Solids	83.71%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	83.9%
1,2-Dichloroethane-d4	82.6%
Toluene-d8	87.6%
4-bromofluorobenzene	85.3%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	SP-3 (11-13)	Sample Collection Date/Time:	5/16/2019	11:25
LSAI Sample ID:	19-2872	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	30MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	17:27
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 4.27	4.27	5
Acrolein	< 0.0356	0.0356	5
Acrylonitrile	< 0.0356	0.0356	5
Benzene	0.177	0.0356	5
Bromobenzene	< 0.0356	0.0356	5
Bromochloromethane	< 0.0356	0.0356	5
Bromodichloromethane	< 0.0356	0.0356	5
Bromoform	< 0.178	0.178	5
Bromomethane	< 0.178	0.178	5
n-Butanol	< 0.178	0.178	5
2-Butanone (MEK)	< 0.356	0.356	5
n-Butylbenzene	< 0.0356	0.0356	5
sec-Butylbenzene	< 0.0356	0.0356	5
tert-Butylbenzene	< 0.0356	0.0356	5
Carbon Disulfide	< 0.178	0.178	5
Carbon Tetrachloride	< 0.0356	0.0356	5
Chlorobenzene	< 0.0356	0.0356	5
Chloroethane (Ethyl Chloride)	< 0.178	0.178	5
2-Chloroethylvinylether	< 1.78	1.78	5
Chloroform	< 0.0356	0.0356	5
Chloromethane	< 0.0356	0.0356	5
2-Chlorotoluene	< 0.0356	0.0356	5
4-Chlorotoluene	< 0.0356	0.0356	5
1,2-Dibromo-3-chloropropane	< 0.178	0.178	5
Dibromochloromethane	< 0.0356	0.0356	5
1,2-Dibromoethane (EDB)	< 0.0356	0.0356	5
Dibromomethane	< 0.0356	0.0356	5
1,2-Dichlorobenzene	< 0.0356	0.0356	5

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LSAI SAMPLE ID continued 19-2872

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0356	0.0356	5
1,4-Dichlorobenzene	< 0.0356	0.0356	5
trans-1,4-Dichloro-2-butene	< 0.178	0.178	5
Dichlorodifluoromethane	< 0.0356	0.0356	5
1,1-Dichloroethane	< 0.0356	0.0356	5
1,2-Dichloroethane	< 0.0356	0.0356	5
1,1-Dichloroethene	< 0.0356	0.0356	5
cis-1,2-Dichloroethene	< 0.0356	0.0356	5
trans-1,2-Dichloroethene	< 0.178	0.178	5
1,2-Dichloropropane	< 0.178	0.178	5
1,3-Dichloropropane	< 0.0356	0.0356	5
2,2-Dichloropropane	< 0.0356	0.0356	5
1,1-Dichloropropene	< 0.178	0.178	5
1,3-Dichloropropene	< 0.178	0.178	5
Ethylbenzene	< 0.178	0.178	5
Ethylmethacrylate	< 0.0356	0.0356	5
Hexachloro-1,3-butadiene	< 0.178	0.178	5
n-Hexane	< 0.356	0.356	5
2-Hexanone	< 0.356	0.356	5
Iodomethane	< 0.178	0.178	5
Isopropylbenzene (Cumene)	< 0.0356	0.0356	5
p-Isopropyltoluene	< 0.0356	0.0356	5
Methylene chloride	< 0.712	0.712	5
4-Methyl-2-pentanone (MIBK)	< 0.0356	0.0356	5
Methyl tert-butyl ether (MTBE)	< 0.178	0.178	5
1-Methylnaphthalene	< 0.0356	0.0356	5
2-Methylnaphthalene	< 0.0356	0.0356	5
Naphthalene	< 0.0356	0.0356	5
n-Propylbenzene	< 0.0356	0.0356	5
Styrene	< 0.0356	0.0356	5
1,1,1,2-Tetrachloroethane	< 0.0356	0.0356	5
1,1,2,2-Tetrachloroethane	< 0.0356	0.0356	5
Tetrachloroethene	< 0.0356	0.0356	5
Toluene	< 0.178	0.178	5
1,2,3-Trichlorobenzene	< 0.0356	0.0356	5
1,2,4-Trichlorobenzene	< 0.0356	0.0356	5
1,1,1-Trichloroethane	< 0.178	0.178	5
1,1,2-Trichloroethane	< 0.0356	0.0356	5
Trichloroethene	< 0.178	0.178	5

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LSAI SAMPLE ID continued 19-2872

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.178	0.178	5
1,2,3-Trichloropropane	< 0.178	0.178	5
1,2,4-Trimethylbenzene	< 0.0356	0.0356	5
1,3,5-Trimethylbenzene	< 0.0356	0.0356	5
Vinyl acetate	< 0.356	0.356	5
Vinyl chloride	< 0.0356	0.0356	5
Xylene M&P	< 0.178	0.178	5
Xylene Ortho	< 0.178	0.178	5
Total Xylenes	< 0.356	0.356	5
Percent Solids	70.26%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	95.1%
1,2-Dichloroethane-d4	88.3%
Toluene-d8	94.5%
4-bromofluorobenzene	91.5%

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Rod Manny	
Sample Field ID:	TB-1	Sample Collection Date/Time:		
LSAI Sample ID:	19-2873	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5035A	Analysis Date/Time:	5/30/2019	1:32
Sample Matrix:	Soil	Analyst:	DJD	

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Acetone	< 0.120	0.120	
Acrolein	< 0.0010	0.0010	
Acrylonitrile	< 0.0010	0.0010	
Benzene	< 0.0010	0.0010	
Bromobenzene	< 0.0010	0.0010	
Bromochloromethane	< 0.0010	0.0010	
Bromodichloromethane	< 0.0010	0.0010	
Bromoform	< 0.0050	0.0050	
Bromomethane	< 0.0050	0.0050	
n-Butanol	< 0.0050	0.0050	
2-Butanone (MEK)	< 0.0100	0.0100	
n-Butylbenzene	< 0.0010	0.0010	
sec-Butylbenzene	< 0.0010	0.0010	
tert-Butylbenzene	< 0.0010	0.0010	
Carbon Disulfide	< 0.0050	0.0050	
Carbon Tetrachloride	< 0.0010	0.0010	
Chlorobenzene	< 0.0010	0.0010	
Chloroethane (Ethyl Chloride)	< 0.0050	0.0050	
2-Chloroethylvinylether	< 0.0500	0.0500	
Chloroform	< 0.0010	0.0010	
Chloromethane	< 0.0010	0.0010	
2-Chlorotoluene	< 0.0010	0.0010	
4-Chlorotoluene	< 0.0010	0.0010	
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	
Dibromochloromethane	< 0.0010	0.0010	
1,2-Dibromoethane (EDB)	< 0.0010	0.0010	
Dibromomethane	< 0.0010	0.0010	
1,2-Dichlorobenzene	< 0.0010	0.0010	

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LSAI SAMPLE ID continued 19-2873

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
1,3-Dichlorobenzene	< 0.0010	0.0010	
1,4-Dichlorobenzene	< 0.0010	0.0010	
trans-1,4-Dichloro-2-butene	< 0.0050	0.0050	
Dichlorodifluoromethane	< 0.0010	0.0010	
1,1-Dichloroethane	< 0.0010	0.0010	
1,2-Dichloroethane	< 0.0010	0.0010	
1,1-Dichloroethene	< 0.0010	0.0010	
cis-1,2-Dichloroethene	< 0.0010	0.0010	
trans-1,2-Dichloroethene	< 0.0050	0.0050	
1,2-Dichloropropane	< 0.0050	0.0050	
1,3-Dichloropropane	< 0.0010	0.0010	
2,2-Dichloropropane	< 0.0010	0.0010	
1,1-Dichloropropene	< 0.0050	0.0050	
1,3-Dichloropropene	< 0.0050	0.0050	
Ethylbenzene	< 0.0050	0.0050	
Ethylmethacrylate	< 0.0010	0.0010	
Hexachloro-1,3-butadiene	< 0.0050	0.0050	
n-Hexane	< 0.0100	0.0100	
2-Hexanone	< 0.0100	0.0100	
Iodomethane	< 0.0050	0.0050	
Isopropylbenzene (Cumene)	< 0.0010	0.0010	
p-Isopropyltoluene	< 0.0010	0.0010	
Methylene chloride	< 0.0200	0.0200	
4-Methyl-2-pentanone (MIBK)	< 0.0010	0.0010	
Methyl tert-butyl ether (MTBE)	< 0.0050	0.0050	
1-Methylnaphthalene	< 0.0010	0.0010	
2-Methylnaphthalene	< 0.0010	0.0010	
Naphthalene	< 0.0010	0.0010	
n-Propylbenzene	< 0.0010	0.0010	
Styrene	< 0.0010	0.0010	
1,1,1,2-Tetrachloroethane	< 0.0010	0.0010	
1,1,2,2-Tetrachloroethane	< 0.0010	0.0010	
Tetrachloroethene	< 0.0010	0.0010	
Toluene	< 0.0050	0.0050	
1,2,3-Trichlorobenzene	< 0.0010	0.0010	
1,2,4-Trichlorobenzene	< 0.0010	0.0010	
1,1,1-Trichloroethane	< 0.0050	0.0050	
1,1,2-Trichloroethane	< 0.0010	0.0010	
Trichloroethene	< 0.0050	0.0050	

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LSAI SAMPLE ID continued 19-2873

Analyte	Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Trichlorofluoromethane	< 0.0050	0.0050	
1,2,3-Trichloropropane	< 0.0050	0.0050	
1,2,4-Trimethylbenzene	< 0.0010	0.0010	
1,3,5-Trimethylbenzene	< 0.0010	0.0010	
Vinyl acetate	< 0.0100	0.0100	
Vinyl chloride	< 0.0010	0.0010	
Xylene M&P	< 0.0050	0.0050	
Xylene Ortho	< 0.0050	0.0050	
Total Xylenes	< 0.0100	0.0100	
Percent Solids	100.00%	0.005%	

All results reported on a dry weight basis.

QA/QC

Surrogates	% Recovery
Dibromofluoromethane	104%
1,2-Dichloroethane-d4	62.6%
Toluene-d8	67.0%
4-bromofluorobenzene	66.2%

LSAI LABS, LLC Chain of Custody Record

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Client Information:	
Company Name	BCA
Contact Name	J. TEUSCHLER
Address	7202 E 87th
City	Indianapolis
State & Zip	Indiana
Phone Number	317-578-4233
Email	JTEUSCHLER@BCA CONSULTANTS.com
Project ID	19-146
Site Name	216 College
Site Location	Bloomington

Billing Information: ELTF / Non-ELTF
Other Comments:

TAT: (Standard) 7 business days)
Rush: 1 day / 2 days / 3 days
Rush TAT will incur a surcharge

Sampler's Name: Thad Manny
Sampler's Signature:
Required QC Level: Level II / (III) / IV
Shipping Method: (Drop-off) / Picked / UPS / FedEx / Airborne / Other:

LSAI Quote#
LSAI PO#

Sample Integrity Notes
- Samples Received on Ice: Yes/No
- Cooler Temp: 2.9 °C
- Samples Intact? Yes / No
- Vials free of head-space: Yes/No/N/A
- Other comments:

Page 1 of 1

Matrix Code	
DW =	Drinking Water
WW =	Waste Wateer
GW =	Ground Water
SO =	Soil
EF =	Effluent
SOL =	Solid
Other =	

Which Regulations Apply:
NPDES / RECAP / RISC / RCG / POTW / STATE / USDA / FDA / Other

Sample ID / Description		Collection Information				Container		Preservative	Requested Tests								
Client ID	LSAI ID	Date	Time	Grab / Composite	Matrix	Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO_3, H_2SO_4, NaOH, NaHSO4	VOC's								
SP-1 (6-7)	19-2863	5-16-19	1235	G	SO	4	V	5035 kit	X								
SP-1 (10-11)	19-2864		1230			4	V		X								
SP-2 (2-4)	19-2865		1000			4	V		X								
SP-3 (7-9)	19-2866		1040			4	V		X								
SP-3 (9-10.5)	19-2867		1045			12	V		X	MS/MSD							
SP-4 (8-9)	19-2868		1150			4	V		X								
SP-4 (9-10.5)	19-2869		1155			4	V		X								
SP-5 (9-11)	19-2870		1120			4	V		X								
SP-5 (9-11) DUP	19-2871		1120			4	V		X								
SP-5 (11-13)	19-2872		1125			4	V		X								
TB-1	19-2873					4	V		X								
MS	19-2874								X								
Comments: MSD	19-2875								X								

	Relinquished by	Date	Time	Received By	Date	Time	Comments:
1	Thad Manny	5/20/19	1241	PFS	5/20/19	12:41	
2							
3							

LSAI LABORATORIES
Lab Solutions for AnalyticalTesting & Issues

SAMPLE CONDITION UPON RECEPTION

Customer: BCA COC Date 5/20/19 Project # 19-146

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Customer ☐ LSAI ☐ Other _____
Tracking #: _____

Custody Seal on Cooler: ☐ Yes ☒ No Seal Intact: ☐ Yes ☐ No

Temperature 2.9°C Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process begun

Logged in: (Date and Initial) W 5/20/19		**Comments**
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Properly Filled Out	☒ Yes ☐ No ☐ N/A	
Chain of Custody Relinquished	☒ Yes ☐ No ☐ N/A	
Sampler Name and Signatory on COC	☒ Yes ☐ No ☐ N/A	
Adherence to Holding Times	☒ Yes ☐ No ☐ N/A	
Rush Turn Around Time Requested	☐ Yes ☒ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels Match COC	☒ Yes ☐ No ☐ N/A	
Sample Labels Legible	☒ Yes ☐ No ☐ N/A	
Samples Preserved Properly	☒ Yes ☐ No ☐ N/A	
Headspace in VOA vials (> pea size)	☐ Yes ☐ No ☒ N/A	soil samples only
Trip Blank Present	☒ Yes ☐ No ☐ N/A	
Sufficient Volume for Requested Tests	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	

Deviations from above needing customer notification? ☐ Yes ☒ No

Description _____

_____

Person Contacted _____ Date/Time _____

QF-4.9.1 Enacted ☐ Yes ☐ No

Level III QA/QC Checklist

Analytical Method	8260B
Extraction Method (If applicable)	5035A
LSAI Batch I.D.	28MAY2019/30MAY2019
Sequence Log	✓
Reporting Limits	✓
Initial Calibration Data:	
Calibration Curve	VOC-DA-23MAY2019
Initial Calibration Raw Data	✓
Initial Calibration RF Summary	✓
Initial Calibration Second Source Check	✓
Tune Data	✓
Continuing Calibration Verification (CCV) Data:	
CCV Raw Data	✓
CCV Summary	✓
Tune Data	✓
Quality Control Data:	
Method Blank (MBLANK)	✓
Laboratory Control Standard (LCS)	✓
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	✓

The contents of this report packet have been reviewed for completeness and accuracy regarding LSAI & methodology requirements.

Signature of Approval: Dmk Dm

2019 May 29 1800 Sequence Log .LOG

Starting sequence Wed May 29 18:00:29 2019

Instrument Name: VOA MSD
Sequence File: C:\msdchem\1\sequence\2019_MAY_28_1801.S
Comment:
Operator: PS
Data Path: C:\MSDCHEM\1\DATA\28MAY2019\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
94)	Sample	74	19-2853	8260B	19-2853
95)	Sample	75	19-2854	8260B	19-2854
96)	Sample	76	19-2855	8260B	19-2855
97)	Sample	77	19-2856	8260B	19-2856
98)	Sample	78	19-2857	8260B	19-2857
99)	Sample	71	19-2850-ms		
	Datafile		19-2850-ms		
	Method		8260B		
100)	Sample	71	19-2850-msd		
	Datafile		19-2850-msd		
	Method		8260B		
101)	Sample	79	LCS-5	8260B	LCS-5
102)	Sample	80	LCS-5a	8260B	LCS-5a
103)	Sample	88	sb-5	8260B	sb-5
104)	Sample	1	MB-5	8260B	MB-5
105)	Sample	2	CCV-SO-5	8260B	CCV-SO-5
106)	Sample	3	MB-SO-5	8260B	MB-SO-5
107)	Sample	4	19-2863	8260B	19-2863
108)	Sample	5	19-2864	8260B	19-2864
109)	Sample	6	19-2865	8260B	19-2865
110)	Sample	7	19-2866	8260B	19-2866
111)	Sample	8	19-2867	8260B	19-2867
112)	Sample	9	19-2868	8260B	19-2868
113)	Sample	10	19-2869	8260B	19-2869
114)	Sample	11	19-2870	8260B	19-2870
115)	Sample	12	19-2871	8260B	19-2871
116)	Sample	13	19-2872	8260B	19-2872
117)	Sample	14	19-2873	8260B	19-2873
118)	Sample	15	19-2874-MS		
	Datafile		19-2874-MS		
	Method		8260B		
119)	Sample	16	19-2875-MSD		
	Datafile		19-2875-MSD		
	Method		8260B		
120)	Sample	17	LCS-SO-6	8260B	LCS-SO-6
121)	Sample	20	19-2683	8260B	19-2683

Sequence completed Thu May 30 03:01:54 2019

C:\MSDCHEM\1\DATA\28MAY2019\2019 May 29 1800 Quality Log.LOG
C:\MSDCHEM\1\DATA\28MAY2019\2019 May 29 1800 Sequence Log .LOG

```
 Starting sequence Thu May 30 12:38:21 2019

Instrument Name: VOA MSD
  Sequence File: C:\msdchem\1\sequence\30may2019.S
        Comment:
       Operator: PS
      Data Path: C:\MSDCHEM\1\DATA\30MAY2019\
    Method Path: C:\MSDCHEM\1\METHODS\

  Line Type        Vial  DataFile  Method    Sample Name
  ------------------------------------------------------------------------
    1) Sample         1  CCV-1     8260B     CCV-1
    2) Sample         1  CCV-1A    8260B     CCV-1A
    3) Sample         2  SP-1      8260B     SP-1
    4) Sample         3  MB-1      8260B     MB-1

  Sequence completed Thu May 30 13:52:17 2019

    C:\MSDCHEM\1\DATA\30MAY2019\2019 May 30 1238 Quality Log.LOG
    C:\MSDCHEM\1\DATA\30MAY2019\2019 May 30 1238 Sequence Log .LOG
  Starting sequence Thu May 30 14:19:30 2019

Instrument Name: VOA MSD
  Sequence File: C:\msdchem\1\sequence\30may2019.S
        Comment:
       Operator: PS
      Data Path: C:\MSDCHEM\1\DATA\30MAY2019\
    Method Path: C:\MSDCHEM\1\METHODS\

  Line Type        Vial  DataFile  Method    Sample Name
  ------------------------------------------------------------------------
    5) Sample         3  19-2868   8260B     19-2868x25
    6) Sample         4  19-2869   8260B     19-2869x25
  Sequence Table edit performed Thu May 30 16:04:46 2019
    7) Sample         5  19-2870   8260B     19-2870x25
  Sequence Table edit performed Thu May 30 16:21:22 2019
    8) Sample         6  19-2871   8260B     19-2871x25
  Sequence Table edit performed Thu May 30 17:26:57 2019
    9) Sample         7  19-2872   8260B     19-2872x25
   10) Sample         1  19-2864x25
        Datafile         19-2864x25
        Method           8260B
   11) Sample         2  19-2865x25
        Datafile         19-2865x25
        Method           8260B
   12) Sample         3  19-2866x25
        Datafile         19-2866x25
        Method           8260B
   13) Sample         4  19-2867x25
        Datafile         19-2867x25
        Method           8260B
   14) Sample         8  19-2874-MSx25
        Datafile         19-2874-MSx25
        Method           8260B
   15) Sample         9  19-2875-MSDx25
        Datafile         19-2875-MSDx25
        Method           8260B
   16) Sample        10  ccv-so-1  8260B     ccv-so-1
   17) Sample        11  mb-so-1   8260B     mb-so-1
   18) Sample        12  19-2873x1
        Datafile         19-2873x1
        Method           8260B
   19) Sample        13  19-2863x1
        Datafile         19-2863x1
        Method           8260B
   20) Sample        14  CCV-2     8260B     CCV-2
   21) Sample        14  CCV-2a    8260B     CCV-2a
   22) Sample        88  sb-2      8260B     sb-2
   23) Sample        15  MB-2      8260B     MB-2
   24) Sample        16  19-2819   8260B     19-2819
   25) Sample        16  19-2819X10
        Datafile         19-2819X10
        Method           8260B
   26) Sample        17  19-2820   8260B     19-2820
   27) Sample        17  19-2820-ms
        Datafile         19-2820-ms
        Method           8260B
   28) Sample        17  19-2820-msd
        Datafile         19-2820-msd
```

```
      Method           8260B
  29) Sample       18  19-2821   8260B     19-2821
  30) Sample       18  19-2821X10
      Datafile         19-2821X10
      Method           8260B
  31) Sample       19  19-2822   8260B     19-2822
  32) Sample       20  19-2823   8260B     19-2823
  33) Sample       21  19-2824   8260B     19-2824
  34) Sample       22  19-2825   8260B     19-2825
  35) Sample       23  19-2826   8260B     19-2826
  36) Sample       24  19-2827   8260B     19-2827
  37) Sample       25  19-2828   8260B     19-2828
  38) Sample       26  19-2829   8260B     19-2829
  39) Sample       26  19-2829X10
      Datafile         19-2829X10
      Method           8260B
  40) Sample       27  19-2830   8260B     19-2830
  41) Sample       28  19-2831   8260B     19-2831
  42) Sample       28  19-2831X10
      Datafile         19-2831X10
      Method           8260B
  43) Sample       29  CCV-3     8260B     CCV-3
  44) Sample       29  CCV-3a    8260B     CCV-3a
  45) Sample       88  sb-3      8260B     sb-3
  46) Sample       30  MB-3      8260B     MB-3
  47) Sample       31  19-2832   8260B     19-2832
  48) Sample       32  19-2833   8260B     19-2833
  49) Sample       33  19-2834   8260B     19-2834
Sequence Table edit performed Fri May 31 10:42:05 2019
  50) Sample       34  19-2835   8260B     19-2835
  51) Sample       35  19-2836   8260B     19-2836
  52) Sample       36  19-2837   8260B     19-2837
  53) Sample       37  19-2838   8260B     19-2838
  54) Sample       38  19-2839   8260B     19-2839
  55) Sample       38  19-2839X10
      Datafile         19-2839X10
      Method           8260B
  56) Sample        1  19-2784X25
      Datafile         19-2784X25
      Method           8260B
  57) Sample       39  19-2840   8260B     19-2840
  58) Sample       39  19-2840X10
      Datafile         19-2840X10
      Method           8260B
  59) Sample       40  19-2841   8260B     19-2841
  60) Sample       41  19-2858   8260B     19-2858
  61) Sample       42  19-2859   8260B     19-2859
  62) Sample       43  19-2860   8260B     19-2860
  63) Sample        1  19-2753-CONFIRMATION
      Datafile         19-2753-CONFIRMATION
      Method           8260B
  64) Sample       44  19-2861   8260B     19-2861
  65) Sample       44  19-2861X25
      Datafile         19-2861X25
      Method           8260B

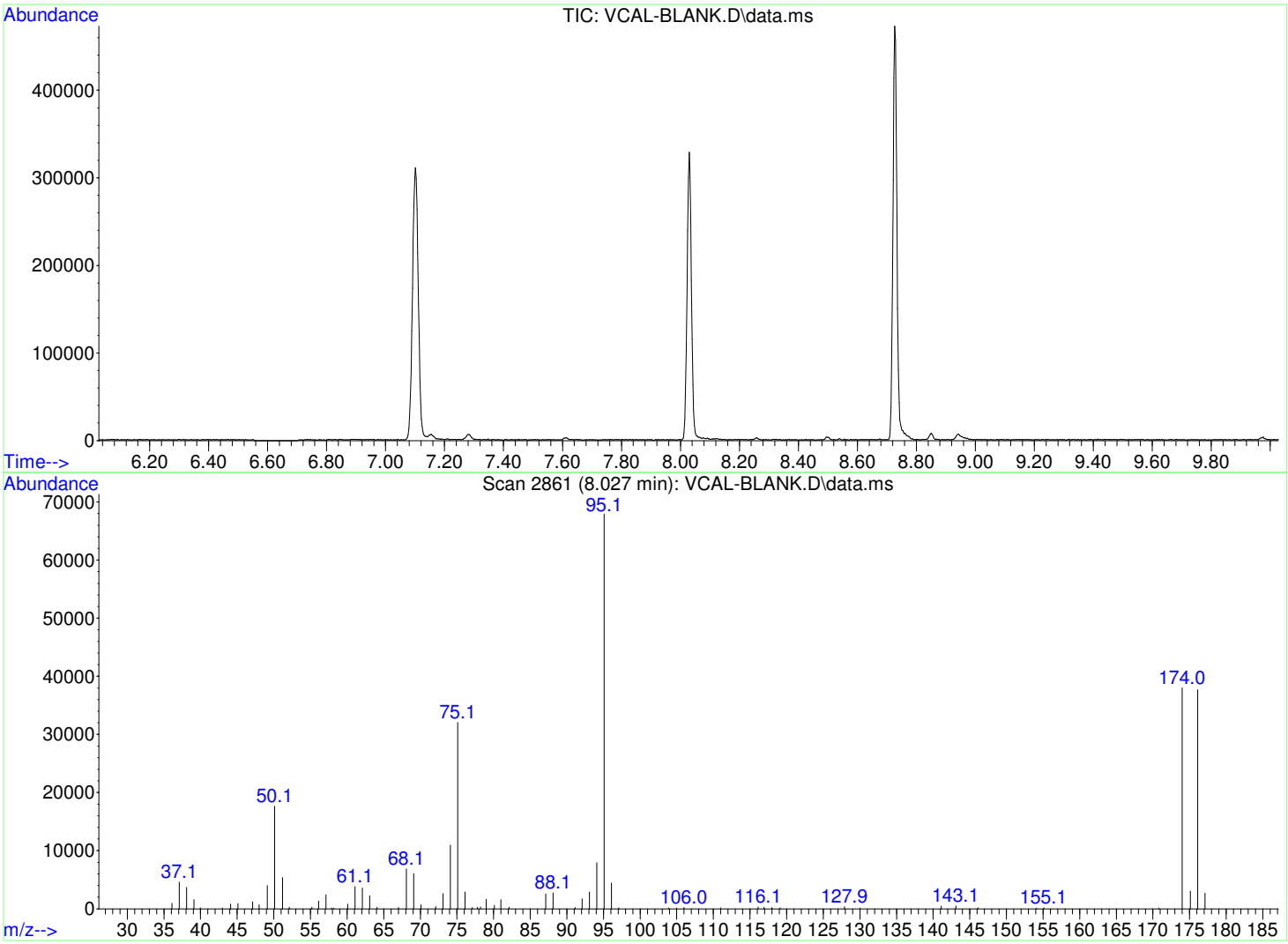
Fri May 31 15:53:53 2019
    Fatal sequence error detected.


     C:\MSDCHEM\1\DATA\30MAY2019\2019 May 30 1419 Quality Log.LOG
     C:\MSDCHEM\1\DATA\30MAY2019\2019 May 30 1419 Sequence Log .LOG
```

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Title : VOC
Last Update : Fri May 24 11:00:55 2019



Spectrum Information: Scan 2861

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	17648	PASS
75	95	30	60	47.1	32032	PASS
95	95	100	100	100.0	67944	PASS
96	95	5	9	6.5	4436	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.0	38016	PASS
175	174	5	9	7.9	3013	PASS
176	174	95	101	99.1	37664	PASS
177	176	5	9	7.2	2719	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

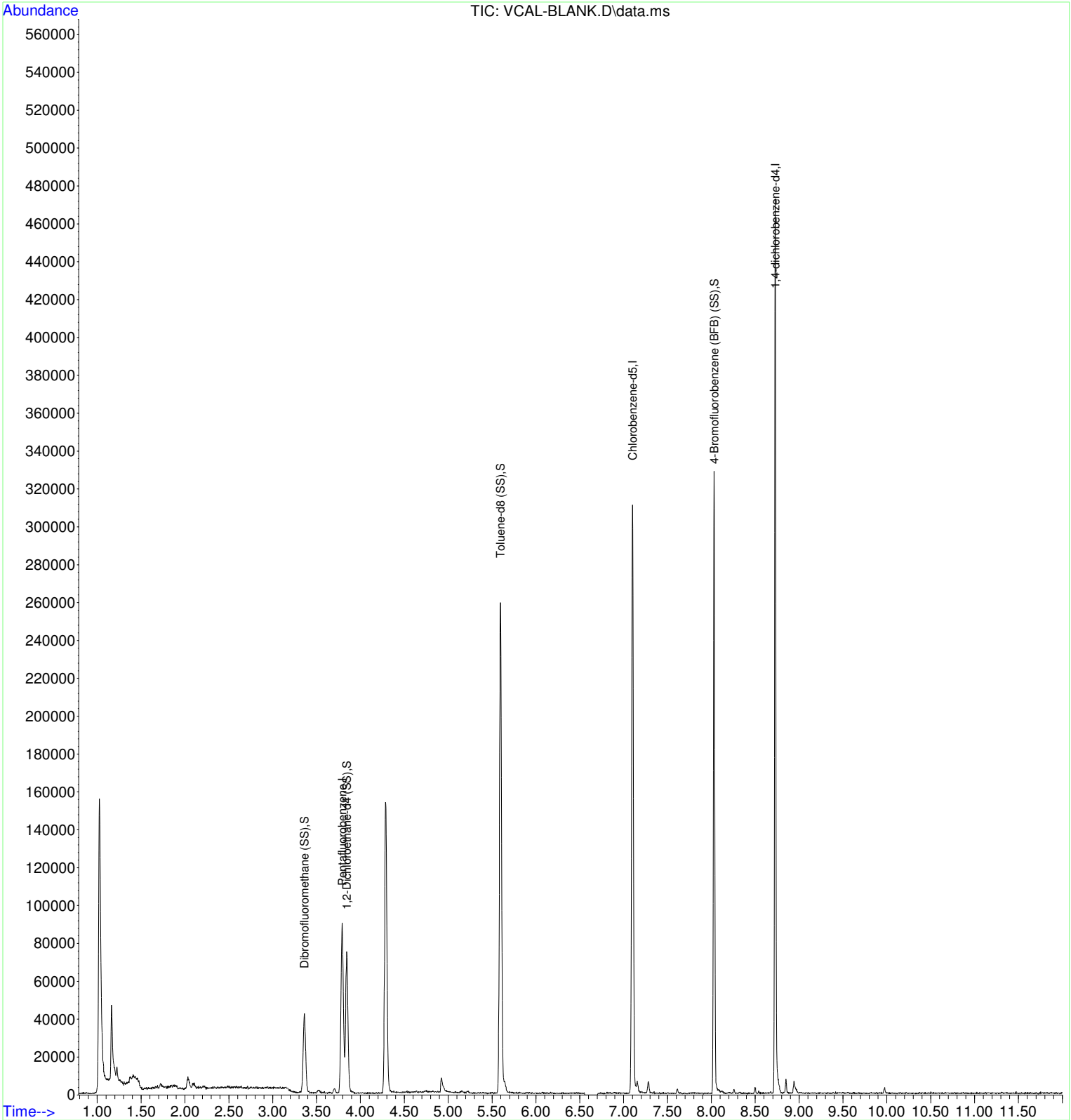
Quant Time: May 24 11:02:39 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 11:00:55 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.793	168	51244	50.00	ppb	0.00
42) Chlorobenzene-d5	7.102	117	119355	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.729	152	63427	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.362	111	25142	50.75	ppb	0.00
Spiked Amount 50.000			Recovery = 101.50%			
32) 1,2-Dichloroethane-d4 ...	3.845	102	7329	54.64	ppb	0.00
Spiked Amount 50.000			Recovery = 109.28%			
44) Toluene-d8 (SS)	5.597	98	147258	46.03	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.06%			
63) 4-Bromofluorobenzene (...	8.031	174	43853	41.99	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.98%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:02:39 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 11:00:55 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	53143	50.00	ppb		0.01
42) Chlorobenzene-d5	7.102	117	110655	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	62834m	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.363	111	24829	49.80	ppb		0.00
Spiked Amount 50.000			Recovery = 99.60%				
32) 1,2-Dichloroethane-d4 ...	3.847	102	6775	55.37	ppb		0.00
Spiked Amount 50.000			Recovery = 110.74%				
44) Toluene-d8 (SS)	5.598	98	133612	51.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.88%				
63) 4-Bromofluorobenzene (...	8.033	174	43649m	53.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.86%				
Target Compounds							Qvalue
3) Chloromethane	1.204	50	5328	1.69	ppb	#	49
4) Vinyl Chloride	1.227	62	6397	4.08	ppb	#	100
5) Bromomethane	1.374	94	917m	2.11	ppb		
6) Chloroethane	1.411	64	441m	1.28	ppb		
7) Trichlorofluoromethane	1.462	101	165m	1.18	ppb		
8) Carbon disulfide	1.746	76	252m	1.46	ppb		
9) 1,1-Dichloroethene	1.726	96	420m	5.18	ppb		
12) Methylene Chloride	2.043	84	591m	2.66	ppb		
13) Acetone	2.096	58	419m	5.34	ppb		
14) trans-1,2-Dichloroethene	2.128	61	465m	1.37	ppb		
17) Chloroprene (2-Chloro-...	2.513	53	939m	1.46	ppb		
18) 1,1-Dichloroethane	2.533	63	613m	1.03	ppb		
19) Acrylonitrile	2.513	53	939m	1.46	ppb		
22) 2,2-Dichloropropane	3.044	77	394m	1.75	ppb		
24) Chloroform	3.200	83	993m	1.48	ppb		
25) Carbon tetrachloride	3.293	117	468m	1.18	ppb		
26) 1,1,1-Trichloroethane	3.366	97	751m	1.30	ppb		
28) 1,1-Dichloropropene	3.472	75	531m	1.39	ppb		
29) 2-Butanone	3.522	43	3455	2.84	ppb	#	62
30) Benzene	3.705	78	3227	2.06	ppb	#	50
31) Methacrylonitrile*	3.791	41	1323m	1.06	ppb		
33) 1,2-Dichloroethane	3.909	62	1342	1.42	ppb	#	1
34) Trichloroethene	4.244	130	547m	1.34	ppb		
37) 1,2-Dichloropropane	4.747	63	988m	1.50	ppb		
39) Methyl methacrylate	5.008	41	1776	0.97	ppb	#	26
43) Toluene	5.647	91	4304	2.14	ppb	#	87
45) Tetrachloroethene	6.010	164	496m	1.37	ppb		
49) Ethyl methacrylate	6.283	69	1209	0.98	ppb	#	37
51) 1,3-Dichloropropane	6.500	76	1147m	1.00	ppb		
53) 2-Hexanone	6.912	43	2153	1.06	ppb	#	36
54) Chlorobenzene	7.115	112	1557m	1.06	ppb		
55) Ethyl benzene	7.155	91	4808	2.24	ppb	#	82
57) MP Xylene	7.284	91	7243m	4.26	ppb		
58) O Xylene	7.611	91	3374m	1.65	ppb		
59) Styrene	7.656	104	1767	1.06	ppb	#	32
61) Isopropylbenzene (Cumene)	7.845	105	3331m	1.70	ppb		
64) Bromobenzene	8.091	156	632m	1.20	ppb		
65) cis-1,4-Dichloro-2-butene	8.096	53	431m	1.01	ppb		
66) n-Propylbenzene	8.127	91	3136m	2.08	ppb		
68) 2-Chlorotoluene	8.218	91	2315	1.95	ppb	#	53
69) 1,2,3-Trichloropropane	8.263	75	1113	1.19	ppb	#	29
70) 1,3,5-Trimethylbenzene	8.260	105	3214	2.09	ppb	#	75

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

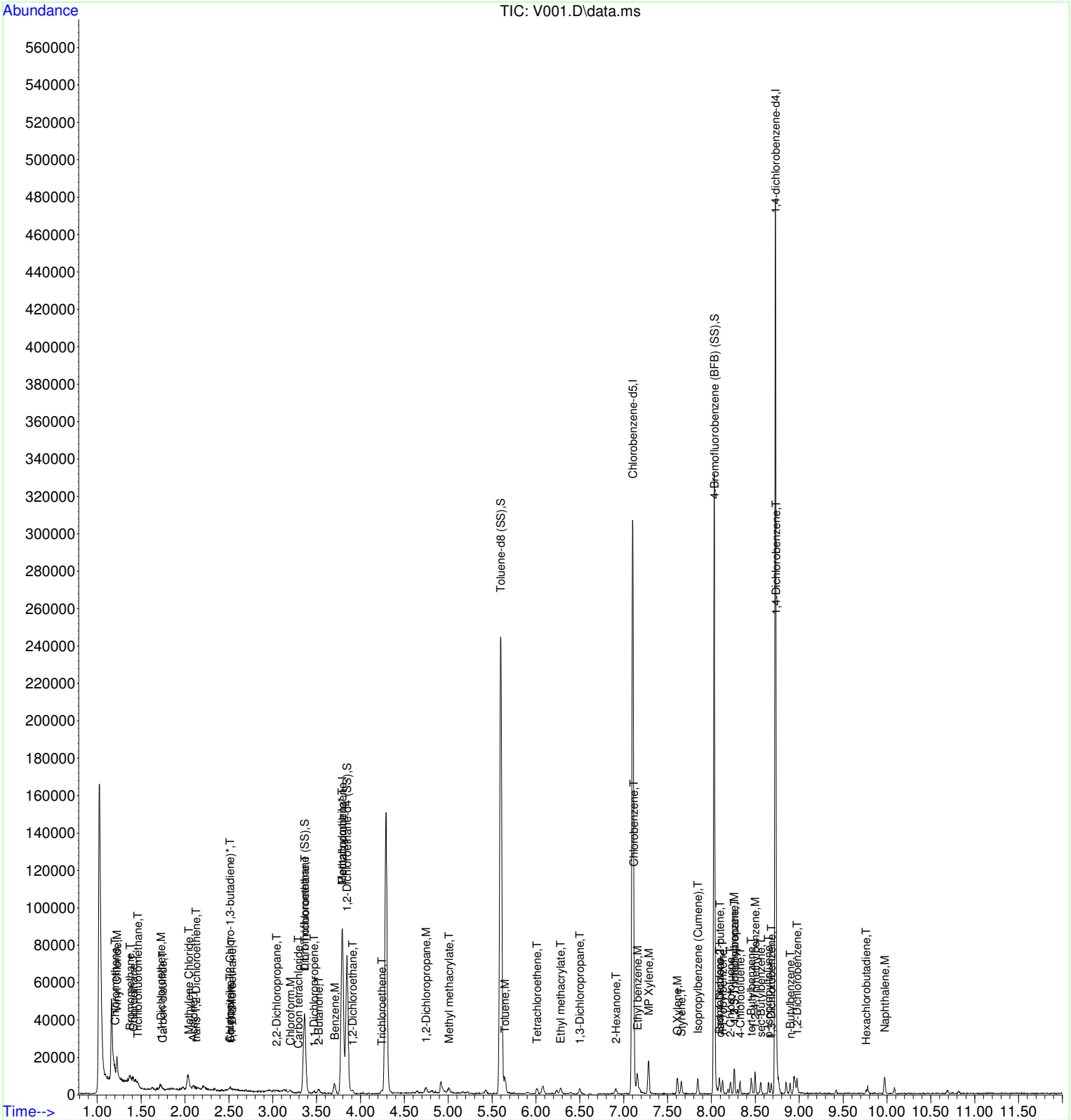
Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 4-Chlorotoluene	8.328	91	2170m	1.73	ppb		
73) tert-Butylbenzene	8.454	119	2207	1.73	ppb	#	79
75) 1,2,4-Trimethylbenzene	8.498	105	3518	2.04	ppb	#	71
76) sec-Butylbenzene	8.561	105	2794	2.02	ppb	#	59
77) p-Isopropyltoluene	8.651	119	2130	1.68	ppb	#	51
78) 1,3-Dichlorobenzene	8.682	146	1023m	1.07	ppb		
79) 1,4-Dichlorobenzene	8.735	146	1143m	1.15	ppb		
80) n-Butylbenzene	8.896	91	1948m	1.83	ppb		
81) 1,2-Dichlorobenzene	8.977	146	1329	1.11	ppb	#	28
83) Hexachlorobutadiene	9.762	225	333m	1.20	ppb		
85) Naphthalene	9.975	128	4490m	1.32	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.792	168	47545	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	103064	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	58263	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.361	111	21966	55.03	ppb		0.00
Spiked Amount 50.000			Recovery = 110.06%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	5853	52.68	ppb		0.00
Spiked Amount 50.000			Recovery = 105.36%				
44) Toluene-d8 (SS)	5.597	98	124363	46.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.86%				
63) 4-Bromofluorobenzene (...	8.032	174	41116	43.68	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.101	85	13534	19.39	ppb	#	94
3) Chloromethane	1.208	50	31716	16.35	ppb		95
4) Vinyl Chloride	1.227	62	24861	25.34	ppb	#	100
5) Bromomethane	1.369	94	5033	19.68	ppb	#	92
6) Chloroethane	1.412	64	3602	13.79	ppb	#	100
7) Trichlorofluoromethane	1.460	101	2477	15.83	ppb	#	73
8) Carbon disulfide	1.745	76	2757	4.30	ppb	#	92
9) 1,1-Dichloroethene	1.721	96	1763	6.63	ppb	#	38
10) Iodomethane	1.808	142	1357	6.81	ppb	#	37
12) Methylene Chloride	2.040	84	3035	7.30	ppb	#	21
13) Acetone	2.097	58	1378	11.13	ppb	#	67
14) trans-1,2-Dichloroethene	2.127	61	5421	6.03	ppb		81
15) n-Hexane	2.155	57	2568	6.70	ppb	#	79
17) Chloroprene (2-Chloro-...	2.510	53	11120	7.28	ppb	#	81
18) 1,1-Dichloroethane	2.533	63	7726	6.96	ppb	#	91
19) Acrylonitrile	2.510	53	11120	7.28	ppb	#	45
21) cis-1,2-Dichloroethene	2.955	61	7068	7.28	ppb	#	75
22) 2,2-Dichloropropane	3.042	77	4586	7.01	ppb	#	56
23) Bromochloromethane	3.132	130	1945	5.79	ppb	#	1
24) Chloroform	3.196	83	9077	8.59	ppb		93
25) Carbon tetrachloride	3.294	117	5534	8.34	ppb		92
26) 1,1,1-Trichloroethane	3.364	97	7700	8.42	ppb		94
28) 1,1-Dichloropropene	3.472	75	6370	7.60	ppb	#	80
29) 2-Butanone	3.522	43	13098	13.14	ppb	#	62
30) Benzene	3.703	78	22901	11.35	ppb		88
31) Methacrylonitrile*	3.790	41	12270	10.19	ppb		92
33) 1,2-Dichloroethane	3.908	62	11599	10.84	ppb	#	89
34) Trichloroethene	4.242	130	5747	8.97	ppb		89
35) Dibromomethane	4.647	93	3961	8.83	ppb	#	83
36) n-Butanol	4.686	56	740m	110.27	ppb		
37) 1,2-Dichloropropane	4.745	63	9553	9.53	ppb	#	88
38) Bromodichloromethane	4.815	83	8016	8.58	ppb		90
39) Methyl methacrylate	5.004	41	17661	9.85	ppb	#	78
41) cis-1,3-Dichloropropene	5.427	75	10099	8.58	ppb	#	74
43) Toluene	5.646	91	30641	10.27	ppb		96
45) Tetrachloroethene	6.009	164	5938	7.76	ppb	#	76
46) 4-Methyl-2-pentanone (...	6.072	43	25152	8.22	ppb		94
47) trans-1,3-Dichloropropene	6.083	75	10071	7.27	ppb	#	72
48) 1,1,2-Trichloroethane	6.237	97	7136	7.93	ppb	#	87
49) Ethyl methacrylate	6.280	69	13869	8.04	ppb	#	55
50) Dibromochloromethane	6.398	129	5481	6.10	ppb	#	82
51) 1,3-Dichloropropane	6.499	76	13023	7.94	ppb	#	58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

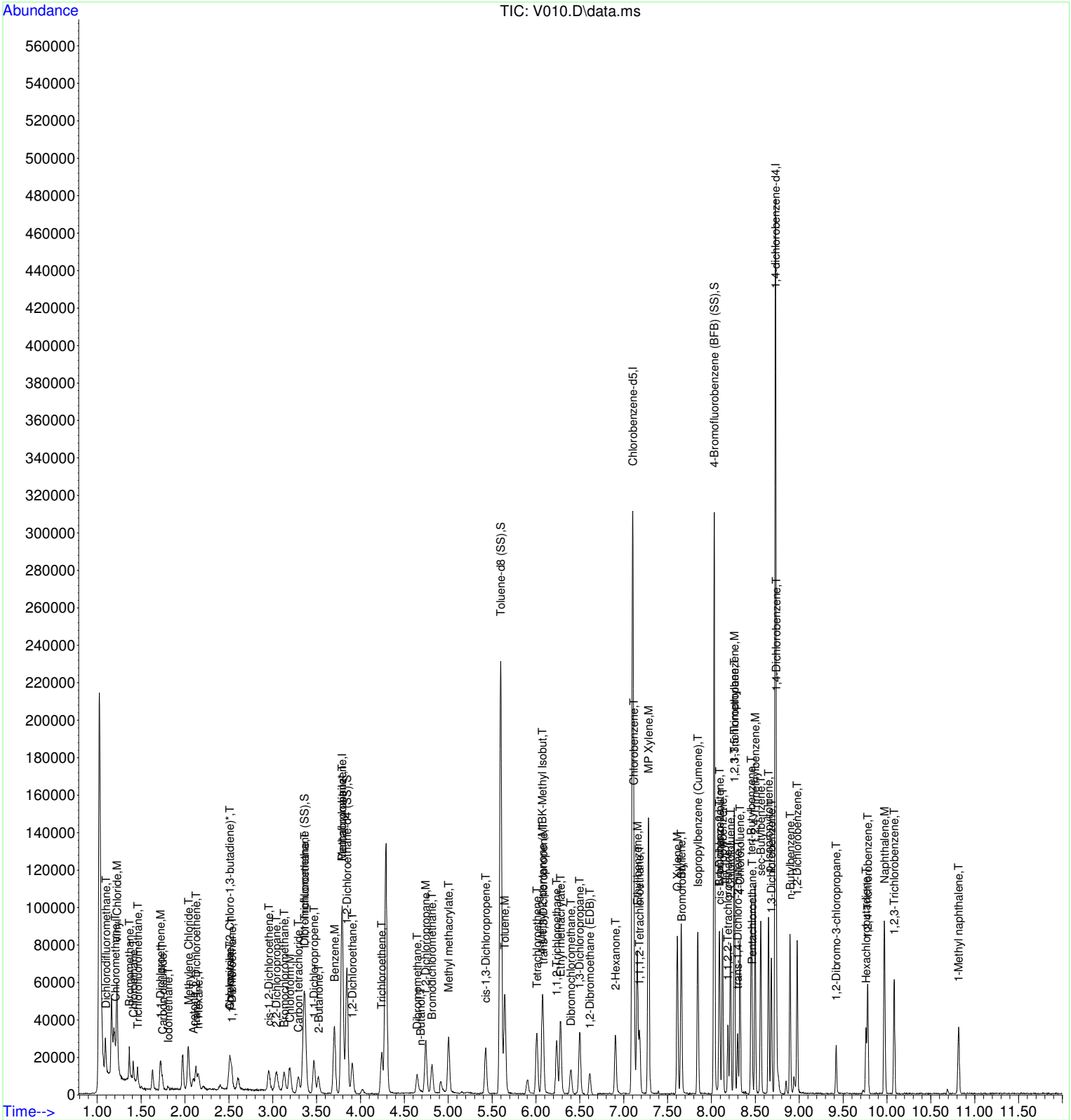
Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	7814	11.02	ppb	#	98
53) 2-Hexanone	6.907	43	19367	7.72	ppb		91
54) Chlorobenzene	7.115	112	19052	7.41	ppb		84
55) Ethyl benzene	7.155	91	37757	9.67	ppb		95
56) 1,1,1,2-Tetrachloroethane	7.181	131	6011	6.99	ppb		90
57) MP Xylene	7.282	91	59472	18.09	ppb		95
58) O Xylene	7.612	91	32145	9.23	ppb		97
59) Styrene	7.656	104	22064	6.58	ppb		91
60) Bromoform	7.662	173	4050	6.97	ppb		93
61) Isopropylbenzene (Cumene)	7.844	105	35331	8.72	ppb		98
64) Bromobenzene	8.091	156	7623	6.57	ppb	#	69
65) cis-1,4-Dichloro-2-butene	8.093	53	5343	8.16	ppb	#	77
66) n-Propylbenzene	8.126	91	40066	7.01	ppb		97
67) 1,1,2,2-Tetrachloroethane	8.188	83	10552	5.94	ppb		98
68) 2-Chlorotoluene	8.217	91	27353	8.07	ppb		95
69) 1,2,3-Trichloropropane	8.262	75	12920	7.78	ppb		95
70) 1,3,5-Trimethylbenzene	8.259	105	31566	9.65	ppb		96
71) trans-1,4-Dichloro-2-b...	8.298	53	5018	7.34	ppb	#	78
72) 4-Chlorotoluene	8.325	91	27096m	7.25	ppb		
73) tert-Butylbenzene	8.454	119	26534	6.67	ppb		89
74) Pentachloroethane	8.463	167	1998	4.56	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	32942	9.17	ppb		97
76) sec-Butylbenzene	8.562	105	36682	6.71	ppb		96
77) p-Isopropyltoluene	8.652	119	29631	6.37	ppb		96
78) 1,3-Dichlorobenzene	8.683	146	14563	5.98	ppb		95
79) 1,4-Dichlorobenzene	8.738	146	14738m	5.71	ppb		
80) n-Butylbenzene	8.895	91	26696	5.51	ppb		96
81) 1,2-Dichlorobenzene	8.978	146	15669	5.86	ppb		96
82) 1,2-Dibromo-3-chloropr...	9.422	157	3146	6.84	ppb	#	70
83) Hexachlorobutadiene	9.760	225	4591	4.49	ppb		98
84) 1,2,4-Trichlorobenzene	9.780	180	10186	4.84	ppb		99
85) Naphthalene	9.972	128	43799	8.08	ppb		95
86) 1,2,3-Trichlorobenzene	10.082	180	11505	5.62	ppb		98
88) 1-Methyl naphthalene	10.816	142	12273	4.23	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	48865	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	104840	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	63694	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.360	111	22548	54.96	ppb		0.00
Spiked Amount 50.000			Recovery = 109.92%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	6213	54.41	ppb		0.00
Spiked Amount 50.000			Recovery = 108.82%				
44) Toluene-d8 (SS)	5.597	98	126770	47.03	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.06%				
63) 4-Bromofluorobenzene (...	8.032	174	44480	43.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.101	85	68019	99.71	ppb	#	98
3) Chloromethane	1.207	50	152967	82.12	ppb		97
4) Vinyl Chloride	1.227	62	106717	105.83	ppb	#	100
5) Bromomethane	1.368	94	20334	77.36	ppb	#	99
6) Chloroethane	1.411	64	17557	66.57	ppb	#	100
7) Trichlorofluoromethane	1.458	101	12937	80.47	ppb		97
8) Carbon disulfide	1.737	76	14919	22.67	ppb	#	99
9) 1,1-Dichloroethene	1.713	96	7496	27.41	ppb	#	50
10) Iodomethane	1.809	142	9850m	42.63	ppb		
12) Methylene Chloride	2.038	84	12228	28.64	ppb	#	24
13) Acetone	2.099	58	5377	42.27	ppb	#	66
14) trans-1,2-Dichloroethene	2.124	61	27622	29.88	ppb		84
15) n-Hexane	2.149	57	14540	36.90	ppb	#	97
17) Chloroprene (2-Chloro-...	2.507	53	58865	37.51	ppb	#	92
18) 1,1-Dichloroethane	2.531	63	38779	33.97	ppb	#	98
19) Acrylonitrile	2.507	53	58865	37.51	ppb	#	52
21) cis-1,2-Dichloroethene	2.954	61	32120	32.20	ppb		86
22) 2,2-Dichloropropane	3.042	77	20185	30.03	ppb	#	83
23) Bromochloromethane	3.131	130	7474	21.65	ppb	#	1
24) Chloroform	3.196	83	37394	34.43	ppb		94
25) Carbon tetrachloride	3.292	117	32864	48.20	ppb		98
26) 1,1,1-Trichloroethane	3.362	97	43774	46.58	ppb		97
28) 1,1-Dichloropropene	3.470	75	33808	39.23	ppb		87
29) 2-Butanone	3.522	43	55377	54.06	ppb	#	66
30) Benzene	3.702	78	116583	56.21	ppb		90
31) Methacrylonitrile*	3.790	41	61435	50.09	ppb		93
33) 1,2-Dichloroethane	3.907	62	61746	56.15	ppb	#	92
34) Trichloroethene	4.242	130	30571	46.45	ppb		91
35) Dibromomethane	4.647	93	21261	46.12	ppb	#	87
36) n-Butanol	4.691	56	3709	537.75	ppb	#	81
37) 1,2-Dichloropropane	4.744	63	49219	47.77	ppb	#	93
38) Bromodichloromethane	4.815	83	45098	46.96	ppb		91
39) Methyl methacrylate	5.004	41	91987	50.16	ppb	#	80
41) cis-1,3-Dichloropropene	5.427	75	59055	48.82	ppb	#	80
43) Toluene	5.646	91	155126	51.13	ppb		95
45) Tetrachloroethene	6.009	164	33751	43.37	ppb	#	72
46) 4-Methyl-2-pentanone (...	6.072	43	133435	42.89	ppb		92
47) trans-1,3-Dichloropropene	6.083	75	58181	41.27	ppb	#	77
48) 1,1,2-Trichloroethane	6.237	97	38927	42.53	ppb	#	90
49) Ethyl methacrylate	6.281	69	74257	42.34	ppb	#	57
50) Dibromochloromethane	6.399	129	34538	37.80	ppb		95
51) 1,3-Dichloropropane	6.499	76	71063	42.60	ppb	#	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

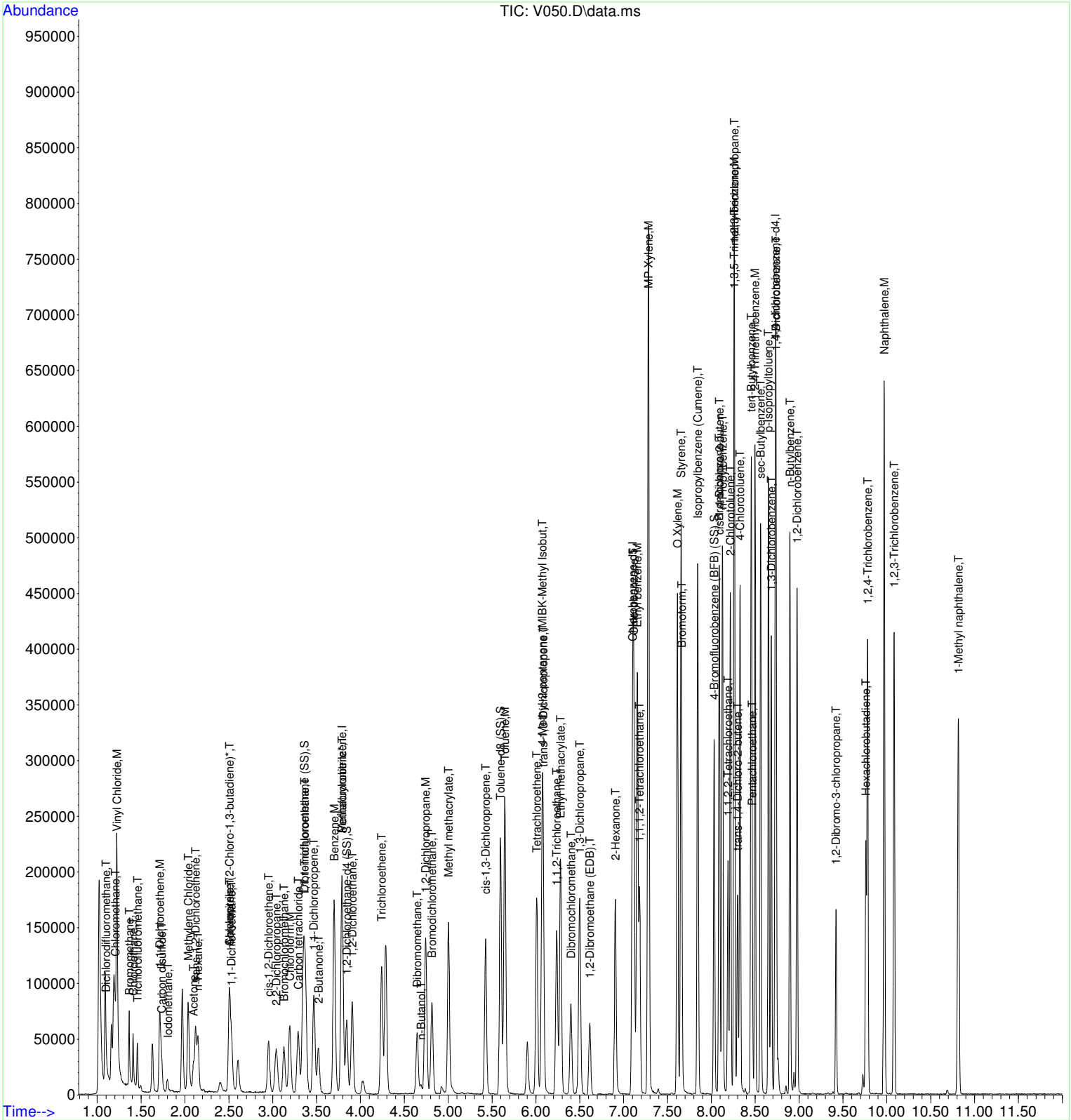
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	42775	59.30	ppb	#	98
53) 2-Hexanone	6.906	43	104293	40.89	ppb		91
54) Chlorobenzene	7.116	112	105059	40.18	ppb		91
55) Ethyl benzene	7.155	91	200497	50.48	ppb		94
56) 1,1,1,2-Tetrachloroethane	7.182	131	34305	39.23	ppb		95
57) MP Xylene	7.282	91	313831	93.82	ppb		96
58) O Xylene	7.612	91	171870	48.53	ppb		97
59) Styrene	7.656	104	126460	37.05	ppb		93
60) Bromoform	7.663	173	26336	41.03	ppb		98
61) Isopropylbenzene (Cumene)	7.845	105	193517	46.93	ppb		98
64) Bromobenzene	8.091	156	44370	34.98	ppb	#	78
65) cis-1,4-Dichloro-2-butene	8.093	53	27542	38.47	ppb		85
66) n-Propylbenzene	8.127	91	232738	37.24	ppb		98
67) 1,1,2,2-Tetrachloroethane	8.188	83	59853	30.80	ppb		99
68) 2-Chlorotoluene	8.217	91	145857	39.38	ppb		97
69) 1,2,3-Trichloropropane	8.264	75	66649m	36.71	ppb		
70) 1,3,5-Trimethylbenzene	8.260	105	170005	47.69	ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	28605	38.28	ppb	#	81
72) 4-Chlorotoluene	8.326	91	151252	37.04	ppb		98
73) tert-Butylbenzene	8.454	119	147586	33.92	ppb		91
74) Pentachloroethane	8.464	167	12577	25.16	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	181920	46.40	ppb		96
76) sec-Butylbenzene	8.562	105	206159	34.51	ppb		96
77) p-Isopropyltoluene	8.652	119	169805	33.39	ppb		97
78) 1,3-Dichlorobenzene	8.683	146	87112	32.71	ppb		97
79) 1,4-Dichlorobenzene	8.738	146	86462	30.65	ppb		94
80) n-Butylbenzene	8.895	91	159764	30.15	ppb		96
81) 1,2-Dichlorobenzene	8.978	146	93874	32.10	ppb		97
82) 1,2-Dibromo-3-chloropr...	9.422	157	21394	42.58	ppb	#	82
83) Hexachlorobutadiene	9.760	225	28534	25.53	ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	72184	31.36	ppb		98
85) Naphthalene	9.971	128	279930	47.21	ppb		96
86) 1,2,3-Trichlorobenzene	10.082	180	79629	35.56	ppb		98
88) 1-Methyl naphthalene	10.814	142	118320	37.32	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.789	168	60291	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	115996	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	74534	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.358	111	26153	46.24	ppb		0.00
Spiked Amount 50.000			Recovery = 92.48%				
32) 1,2-Dichloroethane-d4 ...	3.843	102	7182	51.74	ppb		0.00
Spiked Amount 50.000			Recovery = 103.48%				
44) Toluene-d8 (SS)	5.596	98	140650	51.66	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.32%				
63) 4-Bromofluorobenzene (...	8.032	174	53700	55.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	120642	291.17	ppb	#	97
3) Chloromethane	1.205	50	281534	88.78	ppb		96
4) Vinyl Chloride	1.225	62	186342	128.19	ppb	#	100
5) Bromomethane	1.366	94	37981	86.37	ppb	#	99
6) Chloroethane	1.409	64	31780	90.59	ppb	#	100
7) Trichlorofluoromethane	1.455	101	23194	198.81	ppb		96
8) Carbon disulfide	1.728	76	31674	162.17	ppb	#	87
9) 1,1-Dichloroethene	1.706	96	15760	171.46	ppb	#	64
10) Iodomethane	1.798	142	20563	119.17	ppb	#	94
12) Methylene Chloride	2.035	84	25727	105.78	ppb	#	52
13) Acetone	2.101	58	8616	96.78	ppb	#	43
14) trans-1,2-Dichloroethene	2.119	61	52217	135.49	ppb		86
15) n-Hexane	2.143	57	26748m	Below Cal			
17) Chloroprene (2-Chloro-...	2.503	53	97899	133.78	ppb	#	92
18) 1,1-Dichloroethane	2.529	63	70260	104.27	ppb	#	99
19) Acrylonitrile	2.503	53	97899	133.78	ppb	#	52
21) cis-1,2-Dichloroethene	2.951	61	75295	119.08	ppb		92
22) 2,2-Dichloropropane	3.038	77	49313	193.54	ppb		87
23) Bromochloromethane	3.128	130	19133	91.29	ppb	#	1
24) Chloroform	3.193	83	90828	119.57	ppb		97
25) Carbon tetrachloride	3.288	117	67525	150.32	ppb		98
26) 1,1,1-Trichloroethane	3.359	97	89205	136.24	ppb		99
28) 1,1-Dichloropropene	3.467	75	72616	167.59	ppb		94
29) 2-Butanone	3.521	43	105817	84.66	ppb	#	66
30) Benzene	3.699	78	235604	132.72	ppb		93
31) Methacrylonitrile*	3.789	41	116161	90.59	ppb		94
33) 1,2-Dichloroethane	3.905	62	119267	111.26	ppb	#	92
34) Trichloroethene	4.240	130	65298	140.74	ppb		95
35) Dibromomethane	4.645	93	43885	105.83	ppb		93
36) n-Butanol	4.695	56	7637	84.76	ppb	#	90
37) 1,2-Dichloropropane	4.743	63	97473	130.10	ppb	#	95
38) Bromodichloromethane	4.814	83	92629	106.37	ppb		93
39) Methyl methacrylate	5.004	41	173587	92.28	ppb	#	81
41) cis-1,3-Dichloropropene	5.426	75	119201	121.31	ppb	#	84
43) Toluene	5.645	91	308853	146.18	ppb		96
45) Tetrachloroethene	6.008	164	70882	174.97	ppb	#	79
46) 4-Methyl-2-pentanone (...	6.073	43	249476	87.57	ppb		93
47) trans-1,3-Dichloropropene	6.083	75	117666	118.44	ppb	#	83
48) 1,1,2-Trichloroethane	6.237	97	77475	108.83	ppb		92
49) Ethyl methacrylate	6.281	69	143913	111.23	ppb	#	62
50) Dibromochloromethane	6.399	129	75029	95.00	ppb		96
51) 1,3-Dichloropropane	6.499	76	139169	115.60	ppb	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

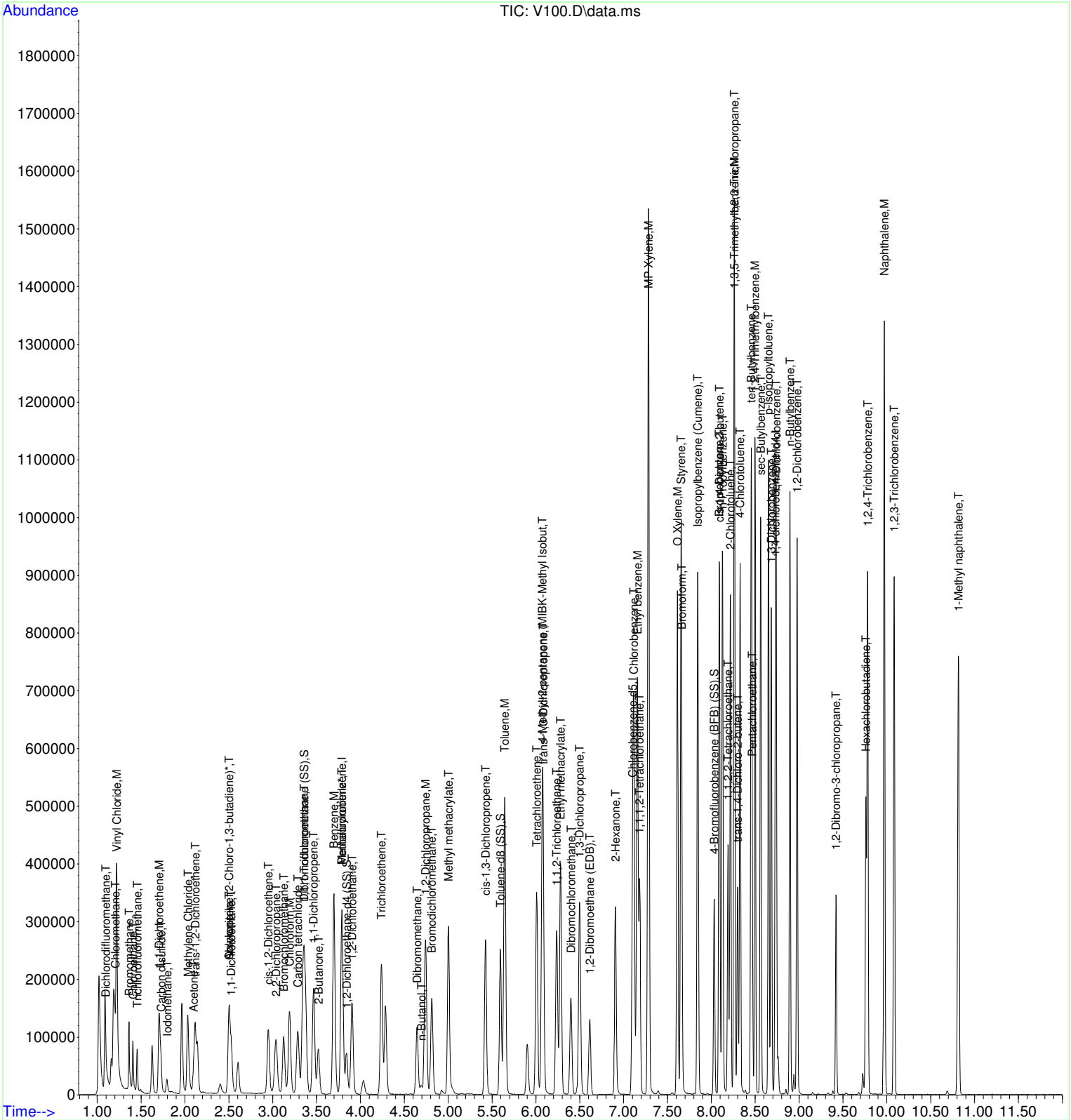
Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	86925	104.67 ppb	#	98
53) 2-Hexanone	6.907	43	198674	93.07 ppb		91
54) Chlorobenzene	7.116	112	214914	139.39 ppb		94
55) Ethyl benzene	7.156	91	387940	172.13 ppb		96
56) 1,1,1,2-Tetrachloroethane	7.182	131	73657	108.28 ppb		97
57) MP Xylene	7.283	91	611613	342.76 ppb		96
58) O Xylene	7.612	91	329161	153.91 ppb		98
59) Styrene	7.656	104	249089	142.13 ppb		94
60) Bromoform	7.663	173	62669	100.98 ppb		98
61) Isopropylbenzene (Cumene)	7.845	105	381053	185.04 ppb		98
64) Bromobenzene	8.091	156	94823	151.79 ppb	#	89
65) cis-1,4-Dichloro-2-butene	8.093	53	55031	121.90 ppb	#	85
66) n-Propylbenzene	8.127	91	453361	253.55 ppb		99
67) 1,1,2,2-Tetrachloroethane	8.189	83	127627	105.81 ppb		99
68) 2-Chlorotoluene	8.217	91	283005	201.03 ppb		99
69) 1,2,3-Trichloropropane	8.263	75	127897	115.40 ppb		97
70) 1,3,5-Trimethylbenzene	8.261	105	331545	213.26 ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	55168	108.42 ppb	#	86
72) 4-Chlorotoluene	8.327	91	294617	198.09 ppb		99
73) tert-Butylbenzene	8.455	119	301317	199.63 ppb		94
74) Pentachloroethane	8.465	167	33809	115.80 ppb	#	1
75) 1,2,4-Trimethylbenzene	8.499	105	355751	194.85 ppb		97
76) sec-Butylbenzene	8.562	105	407991	248.05 ppb		96
77) p-Isopropyltoluene	8.652	119	344241	229.34 ppb		97
78) 1,3-Dichlorobenzene	8.683	146	191467	169.37 ppb		98
79) 1,4-Dichlorobenzene	8.738	146	196193	165.76 ppb		99
80) n-Butylbenzene	8.895	91	313862	248.53 ppb		97
81) 1,2-Dichlorobenzene	8.978	146	208185	145.97 ppb		99
82) 1,2-Dibromo-3-chloropr...	9.422	157	49077	107.77 ppb		94
83) Hexachlorobutadiene	9.761	225	68484	207.31 ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	168359	182.83 ppb		99
85) Naphthalene	9.972	128	597906	148.19 ppb		97
86) 1,2,3-Trichlorobenzene	10.082	180	181624	180.05 ppb		98
88) 1-Methyl naphthalene	10.815	142	273301	153.34 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.785	168	58648	50.00	ppb		0.00
42) Chlorobenzene-d5	7.101	117	107306	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	67039	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.355	111	27230	51.01	ppb		0.00
Spiked Amount 50.000			Recovery = 102.02%				
32) 1,2-Dichloroethane-d4 ...	3.840	102	7187	53.09	ppb		0.00
Spiked Amount 50.000			Recovery = 106.18%				
44) Toluene-d8 (SS)	5.594	98	134462	51.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.50%				
63) 4-Bromofluorobenzene (...	8.031	174	45944	49.55	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	50666	40.78	ppb	#	98
3) Chloromethane	1.204	50	121150	40.69	ppb		96
4) Vinyl Chloride	1.225	62	75825	59.33	ppb	#	100
5) Bromomethane	1.365	94	17039	52.83	ppb	#	99
6) Chloroethane	1.408	64	12911	39.84	ppb	#	100
7) Trichlorofluoromethane	1.453	101	8057	41.15	ppb		94
8) Carbon disulfide	1.719	76	14294	19.11	ppb	#	88
9) 1,1-Dichloroethene	1.696	96	6777	21.68	ppb	#	79
10) Iodomethane	1.795	142	7699	39.30	ppb	#	96
12) Methylene Chloride	2.030	84	11116	22.68	ppb	#	67
13) Acetone	2.107	58	3540	24.26	ppb	#	81
14) trans-1,2-Dichloroethene	2.113	61	19406	18.42	ppb		87
15) n-Hexane	2.135	57	10259	23.21	ppb	#	87
17) Chloroprene (2-Chloro-...	2.498	53	42581	23.52	ppb	#	94
18) 1,1-Dichloroethane	2.524	63	31726	24.15	ppb	#	97
19) Acrylonitrile	2.498	53	42581	23.52	ppb	#	51
21) cis-1,2-Dichloroethene	2.947	61	32443	28.15	ppb		96
22) 2,2-Dichloropropane	3.033	77	23563	29.68	ppb		89
23) Bromochloromethane	3.126	130	10374	26.01	ppb	#	1
24) Chloroform	3.189	83	43230	33.81	ppb		100
25) Carbon tetrachloride	3.283	117	30830	37.34	ppb		99
26) 1,1,1-Trichloroethane	3.355	97	39264	35.02	ppb		99
28) 1,1-Dichloropropene	3.462	75	32243	31.89	ppb		97
29) 2-Butanone	3.522	43	47178	38.83	ppb	#	66
30) Benzene	3.695	78	106510	43.08	ppb		95
31) Methacrylonitrile*	3.787	41	48102	36.82	ppb		95
33) 1,2-Dichloroethane	3.902	62	51311	39.46	ppb	#	94
34) Trichloroethene	4.236	130	29643	37.74	ppb		97
35) Dibromomethane	4.643	93	19378	35.45	ppb		93
36) n-Butanol	4.705	56	3481	410.36	ppb	#	1
37) 1,2-Dichloropropane	4.740	63	40972	33.85	ppb	#	90
38) Bromodichloromethane	4.811	83	40007	35.03	ppb		94
39) Methyl methacrylate	5.003	41	70255	35.97	ppb		84
41) cis-1,3-Dichloropropene	5.423	75	50815	35.23	ppb	#	85
43) Toluene	5.643	91	136424	44.39	ppb		96
45) Tetrachloroethene	6.006	164	30067	38.24	ppb		79
46) 4-Methyl-2-pentanone (...	6.072	43	100019	32.14	ppb		94
47) trans-1,3-Dichloropropene	6.081	75	50218	35.04	ppb	#	84
48) 1,1,2-Trichloroethane	6.236	97	33078	35.84	ppb		93
49) Ethyl methacrylate	6.279	69	60780	34.38	ppb	#	64
50) Dibromochloromethane	6.397	129	30961	33.20	ppb		95
51) 1,3-Dichloropropane	6.497	76	57994	34.65	ppb	#	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration

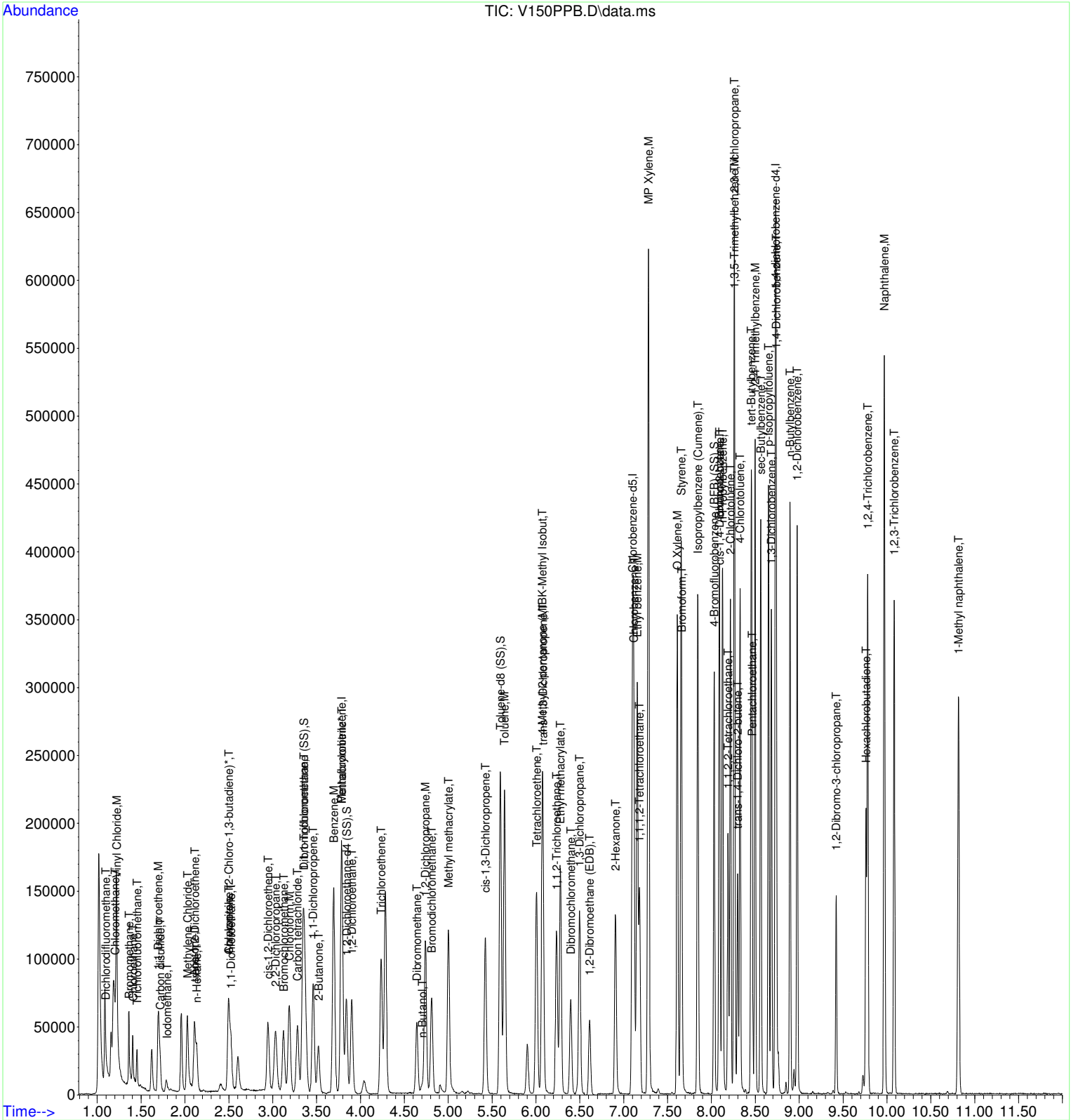
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.612	107	36780	49.16	ppb	#	99
53) 2-Hexanone	6.907	43	82220	32.08	ppb		92
54) Chlorobenzene	7.115	112	89140	33.79	ppb		95
55) Ethyl benzene	7.154	91	159986	39.68	ppb		96
56) 1,1,1,2-Tetrachloroethane	7.181	131	29446	32.99	ppb		96
57) MP Xylene	7.282	91	255859	75.38	ppb		97
58) O Xylene	7.611	91	137076	38.08	ppb		98
59) Styrene	7.656	104	105488	30.69	ppb		94
60) Bromoform	7.662	173	23792	37.22	ppb		97
61) Isopropylbenzene (Cumene)	7.844	105	156156	37.10	ppb		98
64) Bromobenzene	8.091	156	37767	29.36	ppb	#	82
65) cis-1,4-Dichloro-2-butene	8.093	53	23763	32.18	ppb		87
66) n-Propylbenzene	8.126	91	188116	29.91	ppb		99
67) 1,1,2,2-Tetrachloroethane	8.189	83	55223	28.00	ppb		98
68) 2-Chlorotoluene	8.217	91	119634	32.02	ppb		99
69) 1,2,3-Trichloropropane	8.263	75	55274	30.14	ppb		96
70) 1,3,5-Trimethylbenzene	8.259	105	138550	44.70	ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	24704	32.09	ppb	#	85
72) 4-Chlorotoluene	8.326	91	124664	30.31	ppb		99
73) tert-Butylbenzene	8.454	119	125229	28.35	ppb		94
74) Pentachloroethane	8.464	167	13391	33.21	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	150036	43.80	ppb		97
76) sec-Butylbenzene	8.561	105	169539	28.11	ppb		96
77) p-Isopropyltoluene	8.651	119	142784	27.71	ppb		97
78) 1,3-Dichlorobenzene	8.683	146	76731	28.30	ppb		98
79) 1,4-Dichlorobenzene	8.738	146	79853	27.86	ppb		95
80) n-Butylbenzene	8.895	91	133857	25.19	ppb		97
81) 1,2-Dichlorobenzene	8.978	146	87118	29.26	ppb		98
82) 1,2-Dibromo-3-chloropr...	9.422	157	18960	36.14	ppb	#	84
83) Hexachlorobutadiene	9.761	225	27306	24.16	ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	66406	28.21	ppb		98
85) Naphthalene	9.971	128	243633	39.33	ppb		96
86) 1,2,3-Trichlorobenzene	10.082	180	70711	30.86	ppb		100
88) 1-Methyl naphthalene	10.814	142	102381	31.21	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.786	168	69235	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	124222	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	93701	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.357	111	28253	48.60	ppb		0.00
Spiked Amount 50.000			Recovery = 97.20%				
32) 1,2-Dichloroethane-d4 ...	3.842	102	7978	49.31	ppb		0.00
Spiked Amount 50.000			Recovery = 98.62%				
44) Toluene-d8 (SS)	5.595	98	145216	45.47	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.94%				
63) 4-Bromofluorobenzene (...	8.032	174	64896	42.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	204052	230.33	ppb	#	97
3) Chloromethane	1.205	50	505361	226.14	ppb		99
4) Vinyl Chloride	1.225	62	314378	220.04	ppb	#	100
5) Bromomethane	1.366	94	67355	180.86	ppb	#	99
6) Chloroethane	1.407	64	56568	156.13	ppb	#	100
7) Trichlorofluoromethane	1.453	101	38527	169.13	ppb		96
8) Carbon disulfide	1.717	76	62605	67.13	ppb	#	80
9) 1,1-Dichloroethene	1.693	96	30531	78.80	ppb	#	78
10) Iodomethane	1.794	142	48235	118.64	ppb	#	99
12) Methylene Chloride	2.029	84	53159	87.86	ppb	#	72
13) Acetone	2.111	58	20474	113.59	ppb	#	1
14) trans-1,2-Dichloroethene	2.111	61	105010	80.17	ppb		89
15) n-Hexane	2.132	57	53160	95.23	ppb	#	20
17) Chloroprene (2-Chloro-...	2.496	53	209516	94.22	ppb	#	95
18) 1,1-Dichloroethane	2.524	63	150207	92.86	ppb	#	99
19) Acrylonitrile	2.496	53	209516	94.22	ppb	#	51
21) cis-1,2-Dichloroethene	2.947	61	138104	97.73	ppb		96
22) 2,2-Dichloropropane	3.034	77	91509	96.08	ppb		91
23) Bromochloromethane	3.125	130	40480	82.76	ppb	#	1
24) Chloroform	3.192	83	174180	113.19	ppb		99
25) Carbon tetrachloride	3.283	117	138277	143.15	ppb		97
26) 1,1,1-Trichloroethane	3.355	97	174356	130.96	ppb		97
28) 1,1-Dichloropropene	3.463	75	142317	116.56	ppb		95
29) 2-Butanone	3.525	43	192948	132.93	ppb	#	68
30) Benzene	3.696	78	459352	156.32	ppb		96
31) Methacrylonitrile*	3.791	41	207178	121.23	ppb		96
33) 1,2-Dichloroethane	3.904	62	218865	140.47	ppb	#	94
34) Trichloroethene	4.237	130	132219	141.78	ppb		96
35) Dibromomethane	4.644	93	87735	134.31	ppb		97
36) n-Butanol	4.708	56	16288	1666.73	ppb	#	1
37) 1,2-Dichloropropane	4.742	63	179377	122.88	ppb	#	94
38) Bromodichloromethane	4.813	83	182625	134.22	ppb		95
39) Methyl methacrylate	5.004	41	314349	122.00	ppb		83
41) cis-1,3-Dichloropropene	5.425	75	224908	131.23	ppb		88
43) Toluene	5.644	91	592885	164.92	ppb		97
45) Tetrachloroethene	6.008	164	142531	154.56	ppb		90
46) 4-Methyl-2-pentanone (...	6.075	43	463792	125.83	ppb		93
47) trans-1,3-Dichloropropene	6.083	75	227229	136.02	ppb		87
48) 1,1,2-Trichloroethane	6.238	97	152315	140.44	ppb		96
49) Ethyl methacrylate	6.282	69	274717	132.20	ppb	#	68
50) Dibromochloromethane	6.400	129	159260	147.10	ppb		98
51) 1,3-Dichloropropane	6.499	76	261678	132.40	ppb	#	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

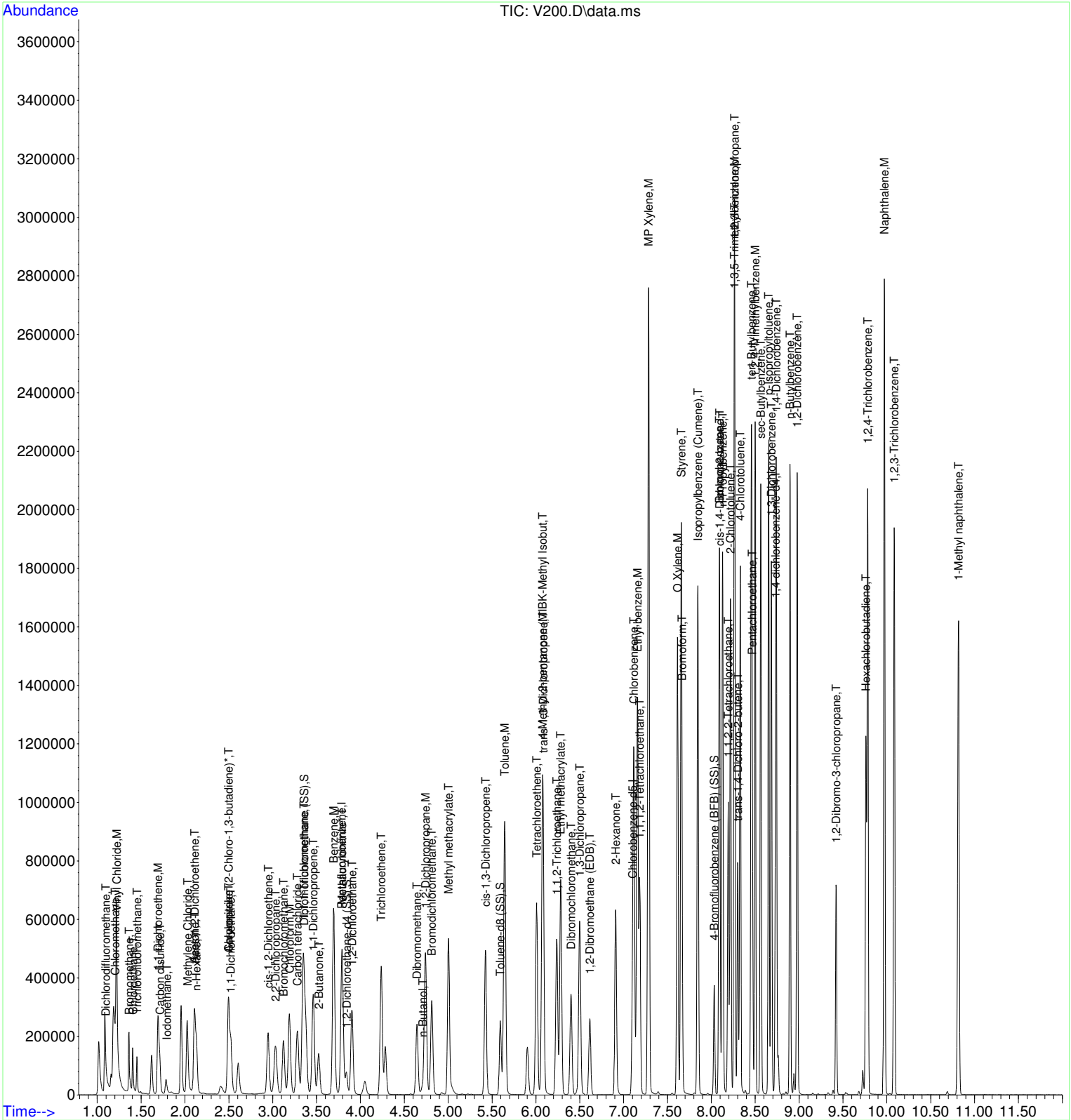
Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.615	107	173734	203.29	ppb	#	99
53) 2-Hexanone	6.910	43	395320	130.81	ppb		91
54) Chlorobenzene	7.116	112	420102	135.59	ppb		95
55) Ethyl benzene	7.156	91	733197	155.79	ppb		97
56) 1,1,1,2-Tetrachloroethane	7.183	131	151934	146.62	ppb		98
57) MP Xylene	7.284	91	1151035	290.42	ppb		97
58) O Xylene	7.613	91	628007	149.67	ppb		98
59) Styrene	7.657	104	493274	121.98	ppb		95
60) Bromoform	7.665	173	150727	156.12	ppb		99
61) Isopropylbenzene (Cumene)	7.845	105	744876	152.45	ppb		97
64) Bromobenzene	8.092	156	207150	111.00	ppb		95
65) cis-1,4-Dichloro-2-butene	8.094	53	112995	107.28	ppb		90
66) n-Propylbenzene	8.128	91	890039	96.80	ppb		99
67) 1,1,2,2-Tetrachloroethane	8.191	83	296382	103.69	ppb		99
68) 2-Chlorotoluene	8.219	91	561365	103.02	ppb		98
69) 1,2,3-Trichloropropane	8.265	75	268667	100.58	ppb		94
70) 1,3,5-Trimethylbenzene	8.262	105	661573	126.82	ppb		97
71) trans-1,4-Dichloro-2-b...	8.300	53	119311	108.55	ppb		90
72) 4-Chlorotoluene	8.328	91	602632	100.31	ppb		97
73) tert-Butylbenzene	8.456	119	647529	101.17	ppb		97
74) Pentachloroethane	8.466	167	99509	114.31	ppb	#	49
75) 1,2,4-Trimethylbenzene	8.500	105	735158	127.93	ppb		98
76) sec-Butylbenzene	8.563	105	845470	96.21	ppb		96
77) p-Isopropyltoluene	8.653	119	735535	98.31	ppb		97
78) 1,3-Dichlorobenzene	8.684	146	441080	112.59	ppb		96
79) 1,4-Dichlorobenzene	8.739	146	457540	110.26	ppb		96
80) n-Butylbenzene	8.896	91	674898	86.58	ppb		97
81) 1,2-Dichlorobenzene	8.979	146	496192	115.32	ppb		97
82) 1,2-Dibromo-3-chloropr...	9.423	157	111229	150.47	ppb		98
83) Hexachlorobutadiene	9.761	225	174693	106.26	ppb		99
84) 1,2,4-Trichlorobenzene	9.781	180	394434	116.50	ppb		98
85) Naphthalene	9.972	128	1283646	147.16	ppb		98
86) 1,2,3-Trichlorobenzene	10.083	180	408603	124.04	ppb		98
88) 1-Methyl naphthalene	10.815	142	602082	129.10	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



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Response Factor Report VOA MSD

Method Path : C:\msdchem\1\methods\
Method File : VOC-DA-23MAY2019.M
Title : VOC
Last Update : Fri May 24 11:00:55 2019
Response Via : Initial Calibration

Calibration Files
1 =BCAL-001PPB.D 10 =BCAL-010PPB.D 50 =BCAL-050PPB.D 100 =BCAL-100PPB.D 200 =BCAL-150PPB.D

		Compound	1	10	50	100	200	Avg	%RSD	R^2
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)	T	Dichlorodifluo...	0.496	1.477	1.466	1.249	1.156	1.169	34.29	0.999
3)	T	Chloromethane		3.462	3.296	2.915	2.864	3.134	9.30	0.999
4)	M	Vinyl Chloride	2.099	0.967	0.791	0.625	0.569	1.010	62.18	0.997
5)	T	Bromomethane	0.964	0.549	0.438	0.393	0.382	0.545	44.59	0.999
6)	T	Chloroethane	0.463	0.393	0.378	0.329	0.321	0.377	15.26	0.999
7)	T	Trichlorofluor...	0.173	0.270	0.279	0.240	0.218	0.236	18.04	0.999
8)	T	Carbon disulfide	0.265	0.301	0.321	0.328	0.355	0.314	10.68	0.998
9)	M	1,1-Dichloroet...	0.441	0.192	0.162	0.163	0.173	0.226	53.41	0.999
10)	T	Iodomethane	0.053	0.148	0.212	0.213	0.273	0.180	46.60	0.999
11)	T	Acrolein (2-Pr...	0.106	0.098	0.072	0.056	0.051	0.077#	32.06	0.996
12)	T	Methylene Chlo...	0.621	0.331	0.263	0.266	0.301	0.357	42.16	1.000
13)	T	Acetone	0.440	0.150	0.116	0.089	0.116	0.182	79.97	0.993
14)	T	trans-1,2-Dich...	0.489	0.592	0.595	0.541	0.595	0.562	8.40	0.998
15)	T	n-Hexane	0.289	0.280	0.313	0.277	0.301	0.292	5.17	0.998
16)	M	MTBE	1.688	1.227	1.144	0.996	0.991	1.209	23.64	0.999
17)	T	Chloroprene (2...	0.987	1.214	1.268	1.014	1.187	1.134	11.11	0.993
18)	T	1,1-Dichloroet...	0.644	0.843	0.836	0.727	0.851	0.780	11.71	0.994
19)	T	Acrylonitrile	0.987	1.214	1.268	1.014	1.187	1.134	11.11	0.993
20)	T	Vinyl Acetate ...	0.668	1.055	1.385	1.229	1.148	1.097	24.49	0.999
21)	T	cis-1,2-Dichlo...	0.540	0.772	0.692	0.780	0.783	0.713	14.54	0.999
22)	T	2,2-Dichloropr...	0.414	0.501	0.435	0.511	0.519	0.476	10.04	0.998
23)	T	Bromochloromet...	0.057	0.212	0.161	0.198	0.229	0.172	40.18	0.991
24)	M	Chloroform	1.044	0.991	0.806	0.940	0.987	0.954	9.47	0.997
25)	T	Carbon tetrach...	0.492	0.604	0.708	0.699	0.784	0.657	17.09	0.997
26)	T	1,1,1-Trichlor...	0.789	0.841	0.943	0.924	0.988	0.897	8.98	0.999
27)	S	Dibromofluorom...	0.486	0.478	0.468	0.486	0.499	0.483	2.39	
28)	T	1,1-Dichloropr...	0.558	0.695	0.728	0.752	0.806	0.708	13.15	0.999
29)	T	2-Butanone	3.631	1.430	1.193	1.096	1.093	1.689	64.81	1.000
30)	M	Benzene	2.857	2.267	2.047	1.913	1.709	2.159	20.39	0.996
31)	T	Methacrylonitr...	1.390	1.339	1.324	1.203	1.174	1.286	7.24	1.000
32)	S	1,2-Dichloroet...	0.129	0.134	0.132	0.126	0.134	0.131	2.72	
33)	T	1,2-Dichloroet...	1.410	1.186	1.117	1.027	0.918	1.132	16.38	0.995
34)	T	Trichloroethene	0.575	0.627	0.659	0.676	0.749	0.657	9.77	0.997
35)	T	Dibromomethane	0.286	0.432	0.458	0.454	0.497	0.426	19.15	0.998
36)	T	n-Butanol		0.081	0.080	0.079	0.092	0.083#	7.50	1.000
37)	M	1,2-Dichloropr...	1.038	1.043	1.061	1.009	1.016	1.033	2.01	1.000
38)	T	Bromodichlorom...	0.725	0.875	0.972	0.959	1.035	0.913	13.09	1.000
39)	T	Methyl methacr...	1.866	1.928	1.982	1.797	1.781	1.871	4.56	0.999
40)	T	2-Chloroethyl ...	1.142	0.515	0.550	0.531	0.487	0.645	43.21	1.000
41)	T	cis-1,3-Dichlo...	0.913	1.102	1.273	1.234	1.274	1.159	13.32	1.000
42)	I	Chlorobenzene-d5	----------	ISTD	----------					
43)	M	Toluene	1.832	1.429	1.369	1.325	1.260	1.443	15.67	0.999
44)	S	Toluene-d8 (SS)	1.311	1.335	1.338	1.337	1.379	1.340	1.84	
45)	T	Tetrachloroethene	0.247	0.310	0.361	0.379	0.442	0.348	21.09	1.000
46)	T	4-Methyl-2-pen...	1.250	1.312	1.426	1.335	1.437	1.352	5.86	0.999
47)	T	trans-1,3-Dich...	0.404	0.525	0.622	0.630	0.704	0.577	20.03	1.000
48)	T	1,1,2-Trichlor...	0.287	0.372	0.416	0.415	0.472	0.392	17.55	0.996
49)	T	Ethyl methacry...	0.603	0.724	0.794	0.770	0.851	0.748	12.49	0.998
50)	T	Dibromochlorom...	0.201	0.286	0.369	0.402	0.493	0.350	31.90	0.990
51)	T	1,3-Dichloropr...	0.572	0.679	0.760	0.745	0.811	0.713	12.89	0.998
52)	T	1,2-Dibromoeth...	0.335	0.373	0.372	0.368	0.352	0.360	4.53	0.999
53)	T	2-Hexanone	1.073	1.010	1.115	1.063	1.225	1.097	7.32	0.995
54)	T	Chlorobenzene	0.776	0.994	1.123	1.150	1.302	1.069	18.42	0.996
55)	M	Ethyl benzene	1.788	1.736	1.756	1.751	1.671	1.740	2.48	0.999
56)	T	1,1,1,2-Tetrac...	0.207	0.314	0.367	0.394	0.471	0.350	28.04	0.992
57)	M	MP Xylene	1.312	1.375	1.378	1.378	1.308	1.350	2.72	0.999
58)	M	O Xylene	1.306	1.547	1.545	1.517	1.469	1.477	6.81	1.000
59)	T	Styrene	0.881	1.151	1.352	1.333	1.528	1.249	19.64	0.996
60)	T	Bromoform	0.129	0.211	0.282	0.335	0.467	0.285	44.89	1.000
61)	T	Isopropylbenze...	1.166	1.648	1.697	1.708	1.656	1.575	14.59	1.000
62)	I	1,4-dichlorobenzen...	----------	ISTD	----------					
63)	S	4-Bromofluorob...	0.823	0.836	0.827	0.802	0.829	0.823	1.58	

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64)	T	Bromobenzene	0.610	0.756	0.889	0.884	0.982	0.824	17.49	0.997
65)	T	cis-1,4-Dichlo...	0.416	0.530	0.552	0.513	0.536	0.509	10.60	0.999
66)	T	n-Propylbenzene	3.026	3.976	4.661	4.226	4.218	4.022	15.14	0.999
67)	T	1,1,2,2-Tetrac...	0.784	1.047	1.199	1.190	1.405	1.125	20.40	0.994
68)	T	2-Chlorotoluene	2.234	2.714	2.921	2.638	2.661	2.634	9.49	0.999
69)	T	1,2,3-Trichlor...	1.074	1.282	1.335	1.192	1.273	1.231	8.26	0.998
70)	M	1,3,5-Trimethy...	2.320	2.789	2.812	2.647	2.264	2.566	10.10	1.000
71)	T	trans-1,4-Dich...	0.422	0.498	0.573	0.514	0.565	0.514	11.86	0.999
72)	T	4-Chlorotoluene	2.094	2.689	3.029	2.746	2.856	2.683	13.19	0.999
73)	T	tert-Butylbenzene	2.130	2.633	2.956	2.809	3.069	2.719	13.53	0.998
74)	T	Pentachloroethane	0.074	0.198	0.252	0.315	0.472	0.262	55.96	1.000
75)	M	1,2,4-Trimethy...	2.543	2.949	3.019	2.801	2.444	2.751	9.10	1.000
76)	T	sec-Butylbenzene	2.696	3.640	4.129	3.803	4.007	3.655	15.54	0.999
77)	T	p-Isopropyltol...	2.055	2.940	3.401	3.209	3.486	3.018	19.14	0.998
78)	T	1,3-Dichlorobe...	0.987	1.445	1.745	1.785	2.091	1.610	25.88	0.994
79)	T	1,4-Dichlorobe...	1.103	1.463	1.732	1.829	2.169	1.659	24.14	0.993
80)	T	n-Butylbenzene	1.880	2.649	3.200	2.926	3.199	2.771	19.77	0.998
81)	T	1,2-Dichlorobe...	1.282	1.555	1.880	1.941	2.352	1.802	22.52	0.992
82)	T	1,2-Dibromo-3-...	0.224	0.312	0.428	0.458	0.527	0.390	31.02	0.995
83)	T	Hexachlorobuta...	0.321	0.456	0.571	0.638	0.828	0.563	33.93	1.000
84)	T	1,2,4-Trichlor...	0.654	1.011	1.446	1.569	1.869	1.310	36.58	0.993
85)	M	Naphthalene	2.637	3.593	4.470	4.344	4.069	3.823	19.44	0.998
86)	T	1,2,3-Trichlor...	0.723	1.142	1.595	1.693	1.937	1.418	34.11	0.996
87)	T	2-Methyl napht...	0.446	0.735	1.642	1.943	1.974	1.348	52.73	0.998
88)	T	1-Methyl napht...	0.518	1.218	2.370	2.548	2.854	1.901	52.09	0.997

(#) = Out of Range

VOC-DA-23MAY2019.M Fri May 24 11:03:09 2019

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

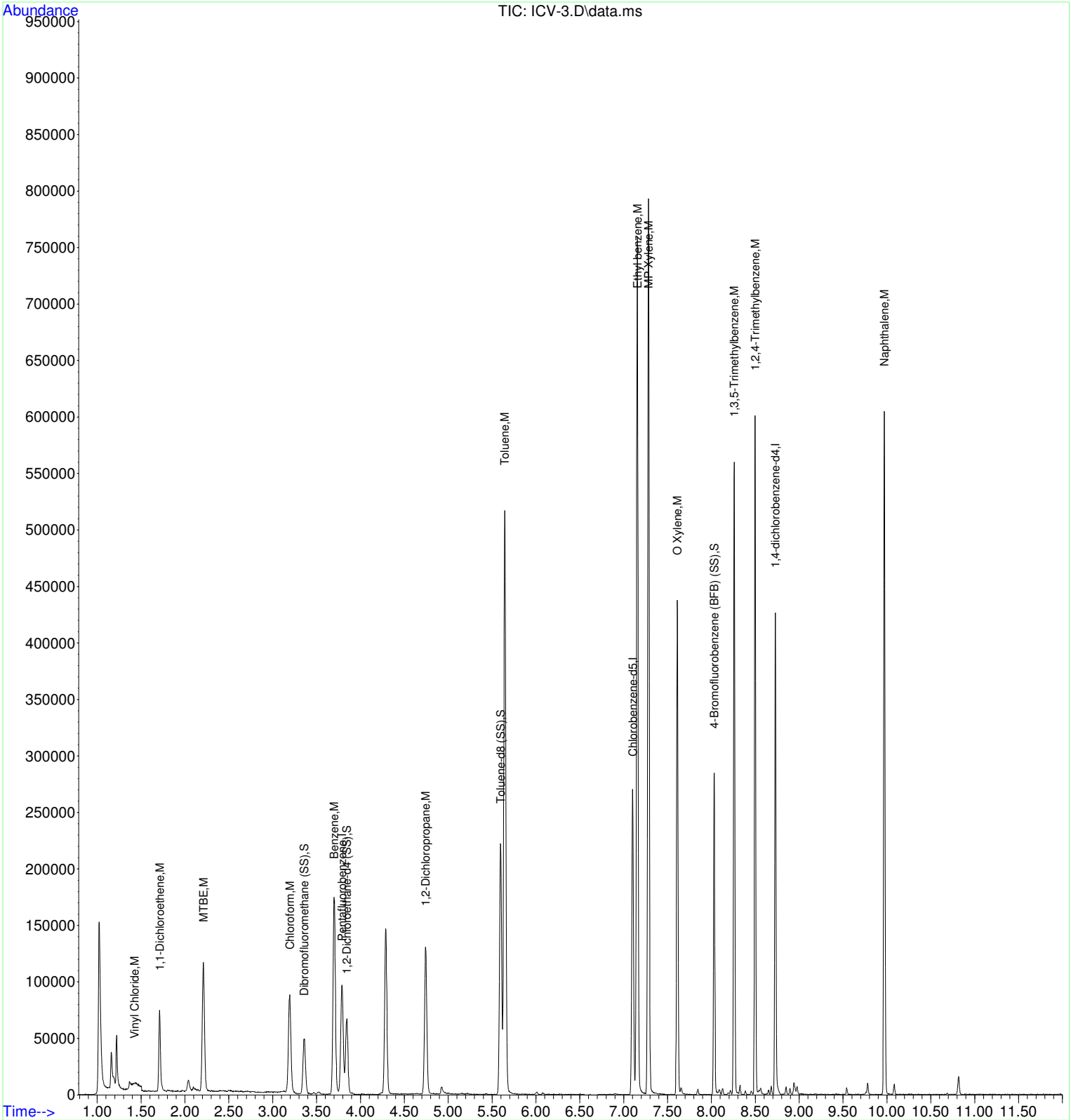
Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	63655	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	104641	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	58400	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.360	111	30937	50.27	ppb		0.00
Spiked Amount 50.000			Recovery = 100.54%				
32) 1,2-Dichloroethane-d4 ...	3.844	102	7353	44.13	ppb		0.00
Spiked Amount 50.000			Recovery = 88.26%				
44) Toluene-d8 (SS)	5.597	98	130505	46.53	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.06%				
63) 4-Bromofluorobenzene (...	8.032	174	44052	45.81	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.62%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	35818m	39.18	ppb		
9) 1,1-Dichloroethene	1.713	96	13482	62.06	ppb	#	76
16) MTBE	2.210	73	74790	58.76	ppb	#	89
24) Chloroform	3.194	83	59186	47.95	ppb		99
30) Benzene	3.701	78	127167	56.59	ppb		96
37) 1,2-Dichloropropane	4.744	63	49135	37.94	ppb	#	97
43) Toluene	5.646	91	324535	121.36	ppb		97
55) Ethyl benzene	7.155	91	403128	113.96	ppb		97
57) MP Xylene	7.282	91	319965	115.42	ppb		97
58) O Xylene	7.612	91	169949	54.81	ppb		98
70) 1,3,5-Trimethylbenzene	8.259	105	184276	56.31	ppb		89
75) 1,2,4-Trimethylbenzene	8.498	105	193491	55.80	ppb		97
85) Naphthalene	9.971	128	276364	57.16	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration



Untitled
Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	137	0.00
4	M	Vinyl Chloride	50.000	39.178	21.6	98	0.20
9	M	1,1-Dichloroethene	50.000	62.062	-24.1	180	0.03
16	M	MTBE	50.000	58.764	-17.5	141	0.00
24	M	Chloroform	50.000	47.950	4.1	158	0.00
27	S	Dibromofluoromethane (SS)	50.000	50.275	-0.5	143	0.00
30	M	Benzene	50.000	56.588	-13.2	134	0.00
32	S	1,2-Dichloroethane-d4 (SS)	50.000	44.131	11.7	120	0.00
37	M	1,2-Dichloropropane	50.000	37.941	24.1	100	0.00
42	I	Chlorobenzene-d5	50.000	50.000	0.0	112	0.00
43	M	Toluene	100.000	121.360	-21.4	131	0.00
44	S	Toluene-d8 (SS)	50.000	46.526	6.9	104	0.00
55	M	Ethyl benzene	100.000	113.958	-14.0	123	0.00
57	M	MP Xylene	100.000	115.419	-15.4	124	0.00
58	M	O Xylene	50.000	54.805	-9.6	118	0.00
62	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	117	0.00
63	S	4-Bromofluorobenzene (BFB)	50.000	45.808	8.4	107	0.00
70	M	1,3,5-Trimethylbenzene	50.000	56.313	-12.6	131	0.00
75	M	1,2,4-Trimethylbenzene	50.000	55.796	-11.6	128	0.00
85	M	Naphthalene	50.000	57.162	-14.3	124	0.00

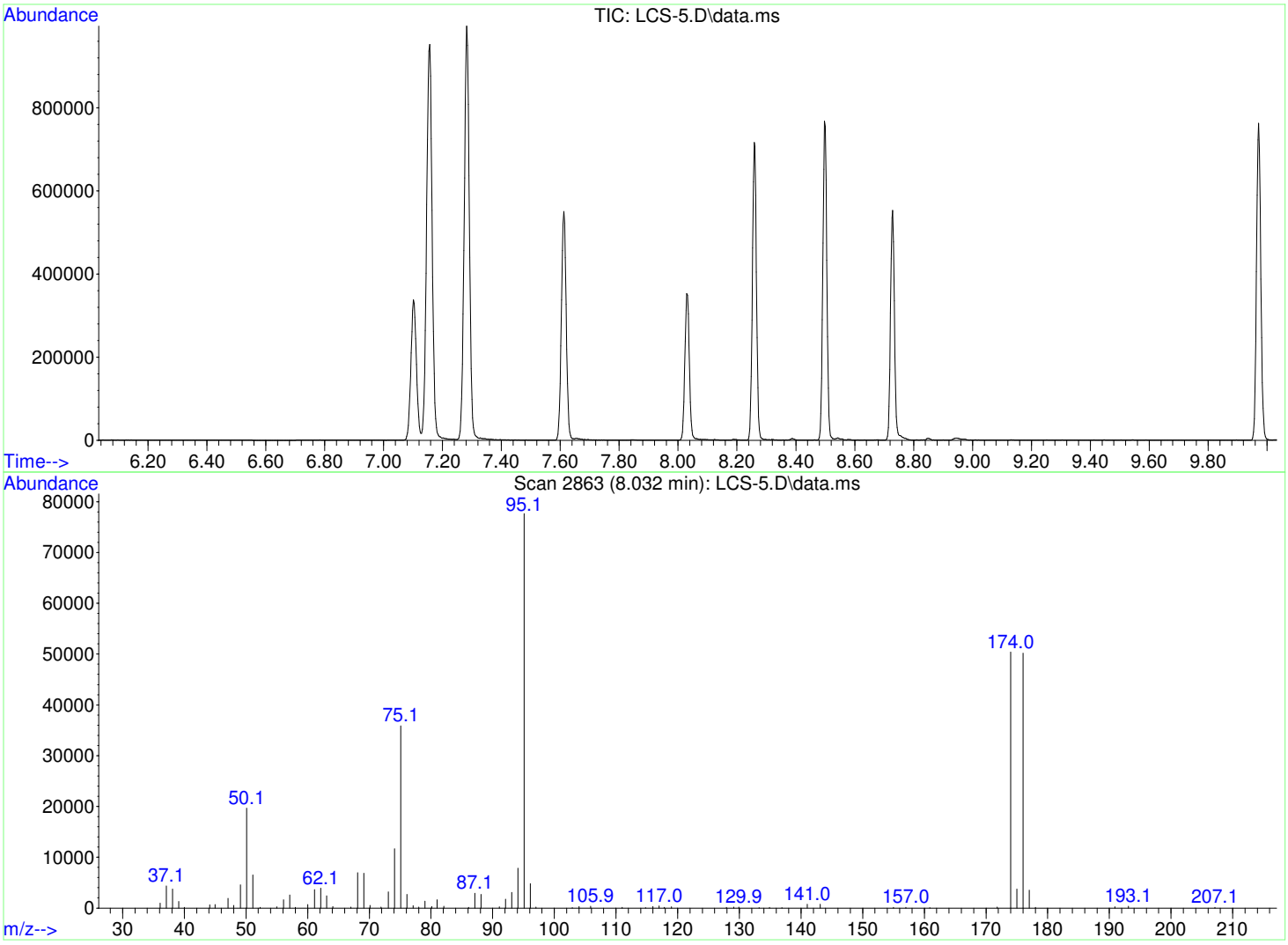
(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOC-DA-23MAY2019.M Fri May 24 10:54:59 2019

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-5.D
Acq On : 29 May 2019 8:22 pm
Operator : PS
Sample : LCS-5
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Title : VOC
Last Update : Mon Jun 03 09:38:56 2019



Spectrum Information: Scan 2863

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.3	19648	PASS
75	95	30	60	46.2	35864	PASS
95	95	100	100	100.0	77680	PASS
96	95	5	9	6.2	4793	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.9	50408	PASS
175	174	5	9	7.4	3734	PASS
176	174	95	101	99.6	50216	PASS
177	176	5	9	7.0	3501	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-5.D
Acq On : 29 May 2019 8:22 pm
Operator : PS
Sample : LCS-5
Misc :
ALS Vial : 79 Sample Multiplier: 1

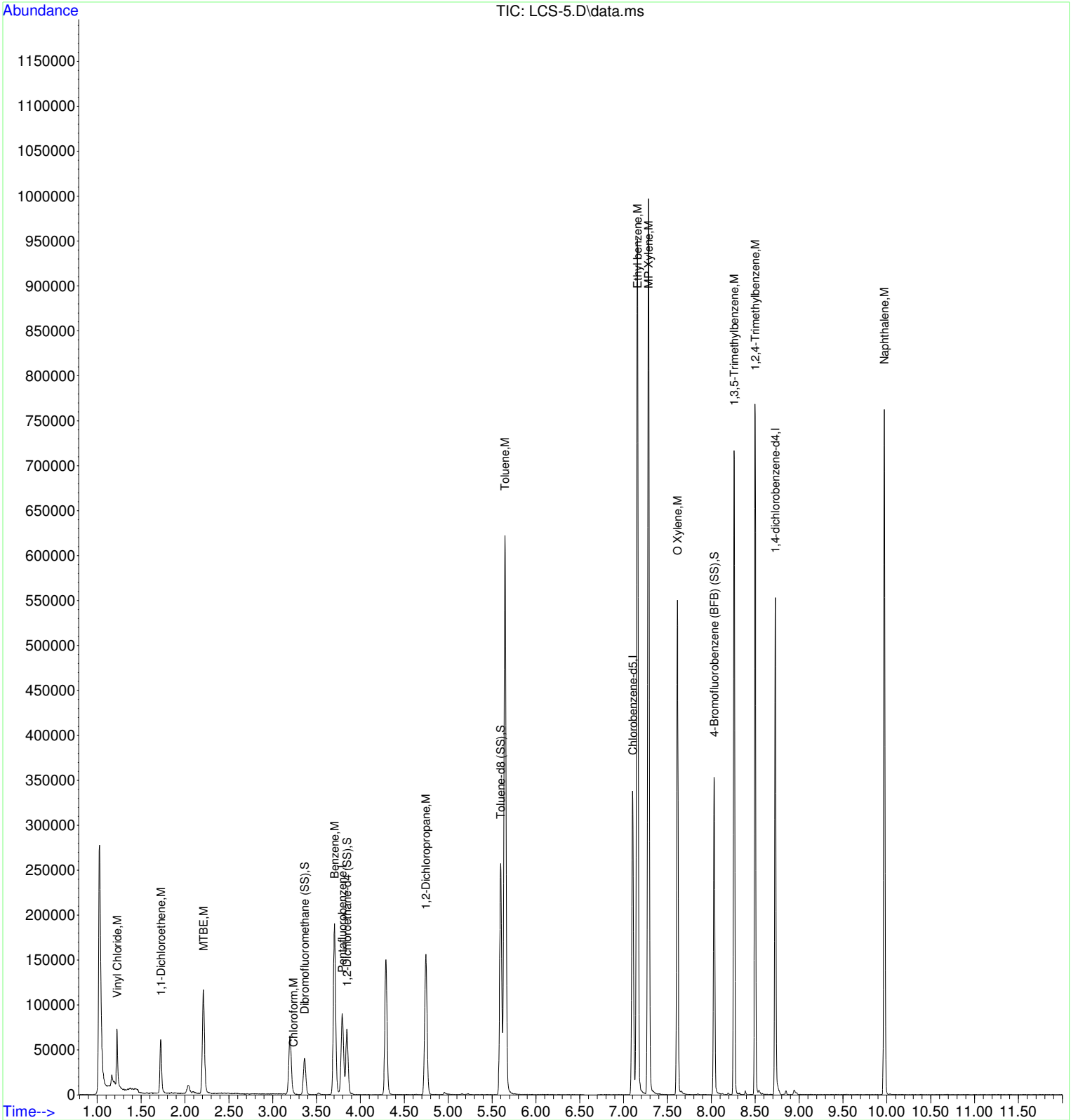
Quant Time: May 30 06:44:31 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.795	168	57098	50.00	ppb		0.01
42) Chlorobenzene-d5	7.103	117	121815	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	74501	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.364	111	24263	43.96	ppb		0.00
Spiked Amount 50.000			Recovery = 87.92%				
32) 1,2-Dichloroethane-d4 ...	3.847	102	6995	46.80	ppb		0.00
Spiked Amount 50.000			Recovery = 93.60%				
44) Toluene-d8 (SS)	5.599	98	145769	44.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.28%				
63) 4-Bromofluorobenzene (...	8.032	174	51649	42.10	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.20%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.230	62	42991	53.43	ppb	#	100
9) 1,1-Dichloroethene	1.726	96	10102	51.84	ppb	#	44
16) MTBE	2.211	73	63129	55.30	ppb	#	89
24) Chloroform	3.235	83	42436m	38.33	ppb		
30) Benzene	3.705	78	123394m	61.21	ppb		
37) 1,2-Dichloropropane	4.747	63	58466	50.33	ppb	#	98
43) Toluene	5.648	91	369357	118.65	ppb		96
55) Ethyl benzene	7.156	91	507292	123.19	ppb		95
57) MP Xylene	7.283	91	396407	122.83	ppb		96
58) O Xylene	7.612	91	210981	58.45	ppb		98
70) 1,3,5-Trimethylbenzene	8.260	105	228973	54.73	ppb		89
75) 1,2,4-Trimethylbenzene	8.499	105	242624	54.77	ppb		97
85) Naphthalene	9.972	128	342530	55.54	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-5.D
Acq On : 29 May 2019 8:22 pm
Operator : PS
Sample : LCS-5
Misc :
ALS Vial : 79 Sample Multiplier: 1

Quant Time: May 30 06:44:31 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Untitled
Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-5.D
Acq On : 29 May 2019 8:22 pm
Operator : PS
Sample : LCS-5
Misc :
ALS Vial : 79 Sample Multiplier: 1

Quant Time: May 30 06:44:31 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	123	0.01
4	M	Vinyl Chloride	50.000	53.430	-6.9	117	0.00
9	M	1,1-Dichloroethene	50.000	51.843	-3.7	135	0.04
16	M	MTBE	50.000	55.298	-10.6	119	0.00
24	M	Chloroform	50.000	38.328	23.3	113	0.05
27	S	Dibromofluoromethane (SS)	50.000	43.957	12.1	112	0.00
30	M	Benzene	50.000	61.215	-22.4	130	0.01
32	S	1,2-Dichloroethane-d4 (SS)	50.000	46.803	6.4	114	0.00
37	M	1,2-Dichloropropane	50.000	50.331	-0.7	119	0.00
42	I	Chlorobenzene-d5	50.000	50.000	0.0	130	0.00
43	M	Toluene	100.000	118.649	-18.6	149	0.00
44	S	Toluene-d8 (SS)	50.000	44.641	10.7	116	0.00
55	M	Ethyl benzene	100.000	123.186	-23.2	155	0.00
57	M	MP Xylene	100.000	122.834	-22.8	154	0.00
58	M	O Xylene	50.000	58.445	-16.9	146	0.00
62	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	149	0.00
63	S	4-Bromofluorobenzene (BFB)	50.000	42.101	15.8	125	0.00
70	M	1,3,5-Trimethylbenzene	50.000	54.734	-9.5	163	0.00
75	M	1,2,4-Trimethylbenzene	50.000	54.775	-9.5	161	0.00
85	M	Naphthalene	50.000	55.536	-11.1	153	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOC-DA-23MAY2019.M Tue Jun 04 14:18:23 2019

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-SO-5.D
Acq On : 29 May 2019 9:41 pm
Operator : PS
Sample : CCV-SO-5
Misc : SOIL
ALS Vial : 2 Sample Multiplier: 1

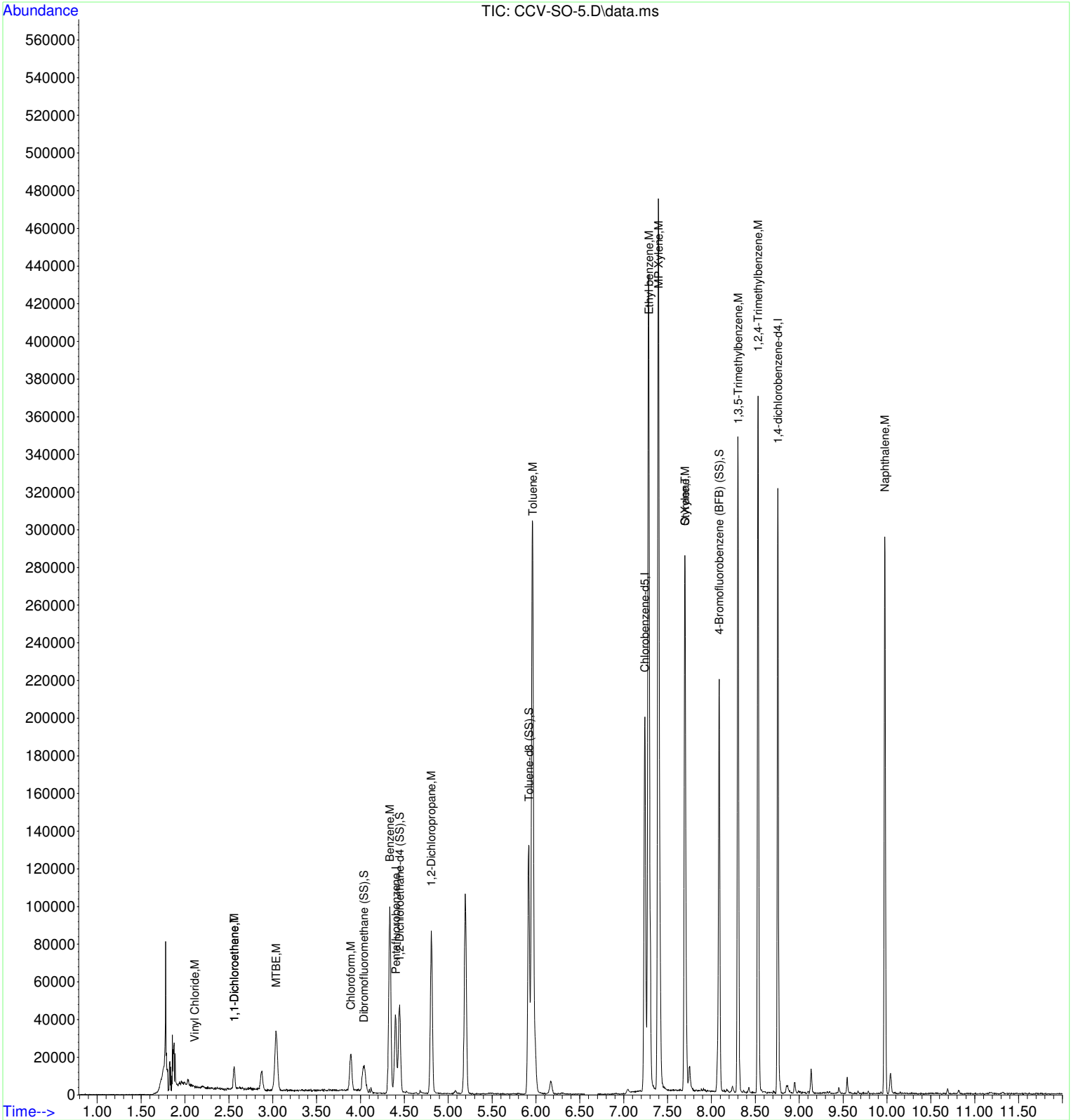
Quant Time: May 30 12:16:07 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.402	168	23695m	50.00	ppb		0.62
42) Chlorobenzene-d5	7.241	117	64560m	50.00	ppb		0.14
62) 1,4-dichlorobenzene-d4	8.757	152	36985	50.00	ppb	#	0.03
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	4.040	111	11497m	50.19	ppb		0.69
Spiked Amount 50.000			Recovery = 100.38%				
32) 1,2-Dichloroethane-d4 ...	4.445	102	4356m	70.23	ppb		0.61
Spiked Amount 50.000			Recovery = 140.46%				
44) Toluene-d8 (SS)	5.919	98	67713m	39.13	ppb		0.33
Spiked Amount 50.000	Range 70 - 130		Recovery = 78.26%				
63) 4-Bromofluorobenzene (...	8.089	174	26754	43.93	ppb		0.06
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.86%				
Target Compounds							Qvalue
4) Vinyl Chloride	2.111	62	3361m	9.50	ppb		
9) 1,1-Dichloroethene	2.561	96	1391m	17.20	ppb		
16) MTBE	3.039	73	14360m	30.31	ppb		
18) 1,1-Dichloroethane	2.560	63	1648	4.21	ppb	#	52
24) Chloroform	3.889	83	7671m	16.70	ppb		
30) Benzene	4.334	78	56031m	66.98	ppb		
37) 1,2-Dichloropropane	4.807	63	14270m	29.60	ppb		
43) Toluene	5.965	91	172953m	104.83	ppb		
55) Ethyl benzene	7.286	91	235048m	107.70	ppb		
57) MP Xylene	7.397	91	200710m	117.35	ppb		
58) O Xylene	7.699	91	112844m	58.98	ppb		
59) Styrene	7.699	104	2313	1.21	ppb	#	1
70) 1,3,5-Trimethylbenzene	8.302	105	113406	54.60	ppb		88
75) 1,2,4-Trimethylbenzene	8.532	105	118326	53.74	ppb		94
85) Naphthalene	9.977	128	119318	38.97	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-SO-5.D
Acq On : 29 May 2019 9:41 pm
Operator : PS
Sample : CCV-SO-5
Misc : SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 12:16:07 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-SO-6.D
Acq On : 30 May 2019 2:30 am
Operator : PS
Sample : LCS-SO-6
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 14:55:20 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

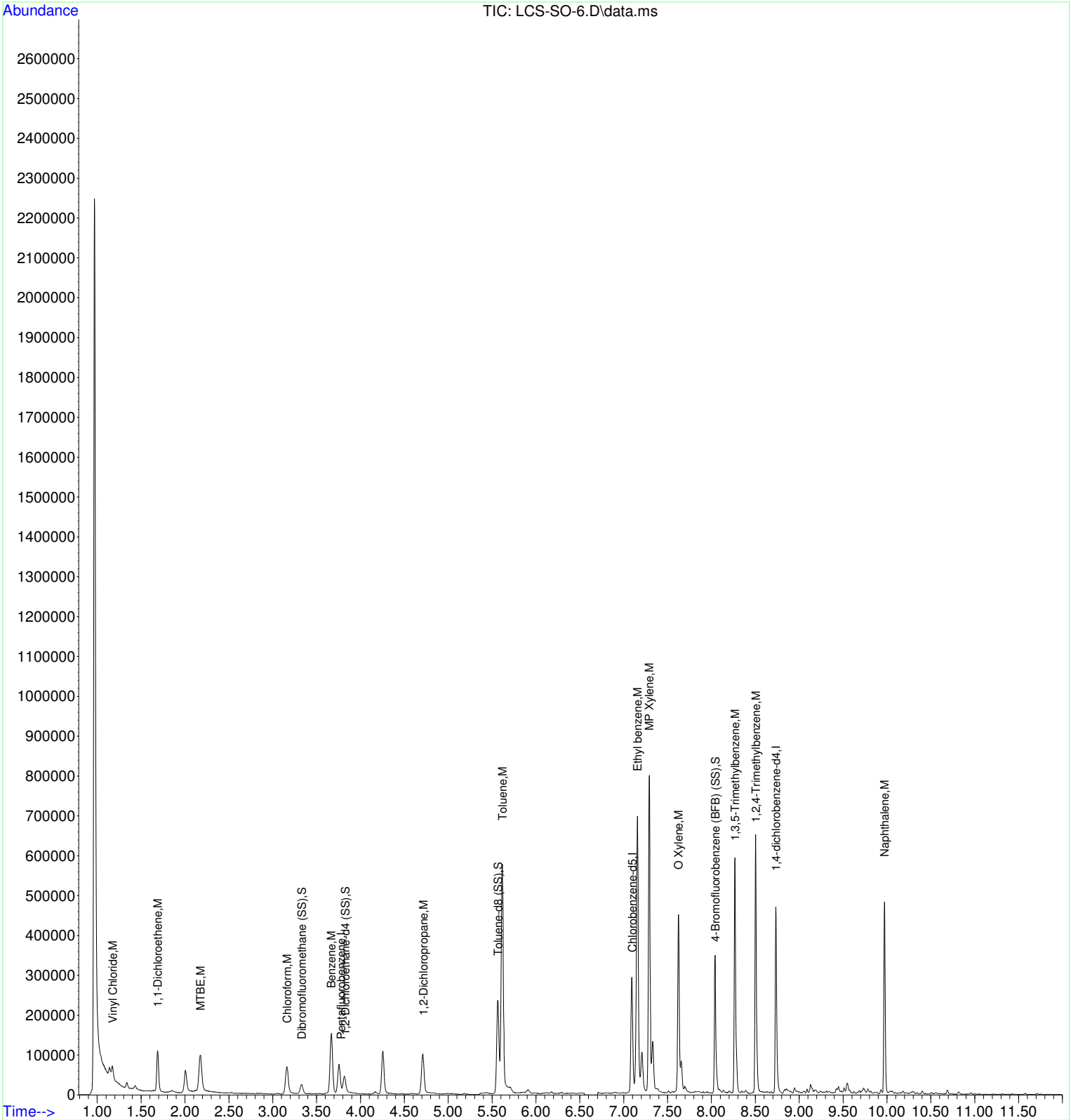
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.778	168	46786m	50.00	ppb		0.00
42) Chlorobenzene-d5	7.098	117	116435m	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.736	152	66478	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.330	111	16528	36.54	ppb		-0.02
Spiked Amount 50.000			Recovery = 73.08%				
32) 1,2-Dichloroethane-d4 ...	3.826	102	4277m	34.92	ppb		-0.01
Spiked Amount 50.000			Recovery = 69.84%				
44) Toluene-d8 (SS)	5.567	98	135915	43.55	ppb		-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.10%				
63) 4-Bromofluorobenzene (...	8.046	174	47329	43.24	ppb		0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.48%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.177	62	23104m	34.16	ppb		
9) 1,1-Dichloroethene	1.690	96	18433	115.45	ppb	#	27
16) MTBE	2.176	73	55891m	59.75	ppb		
24) Chloroform	3.165	83	45848	50.54	ppb	#	85
30) Benzene	3.669	78	91001	55.10	ppb	#	73
37) 1,2-Dichloropropane	4.717	63	35402m	37.19	ppb		
43) Toluene	5.617	91	363055	122.01	ppb		94
55) Ethyl benzene	7.156	91	418263	106.26	ppb		91
57) MP Xylene	7.291	91	326116	105.72	ppb		94
58) O Xylene	7.625	91	175891	50.98	ppb		96
70) 1,3,5-Trimethylbenzene	8.270	105	211992	56.96	ppb		88
75) 1,2,4-Trimethylbenzene	8.507	105	216349	54.73	ppb		96
85) Naphthalene	9.973	128	205033	37.25	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-SO-6.D
Acq On : 30 May 2019 2:30 am
Operator : PS
Sample : LCS-SO-6
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 14:55:20 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-5.D
Acq On : 29 May 2019 9:20 pm
Operator : PS
Sample : MB-5
Misc :
ALS Vial : 1 Sample Multiplier: 1

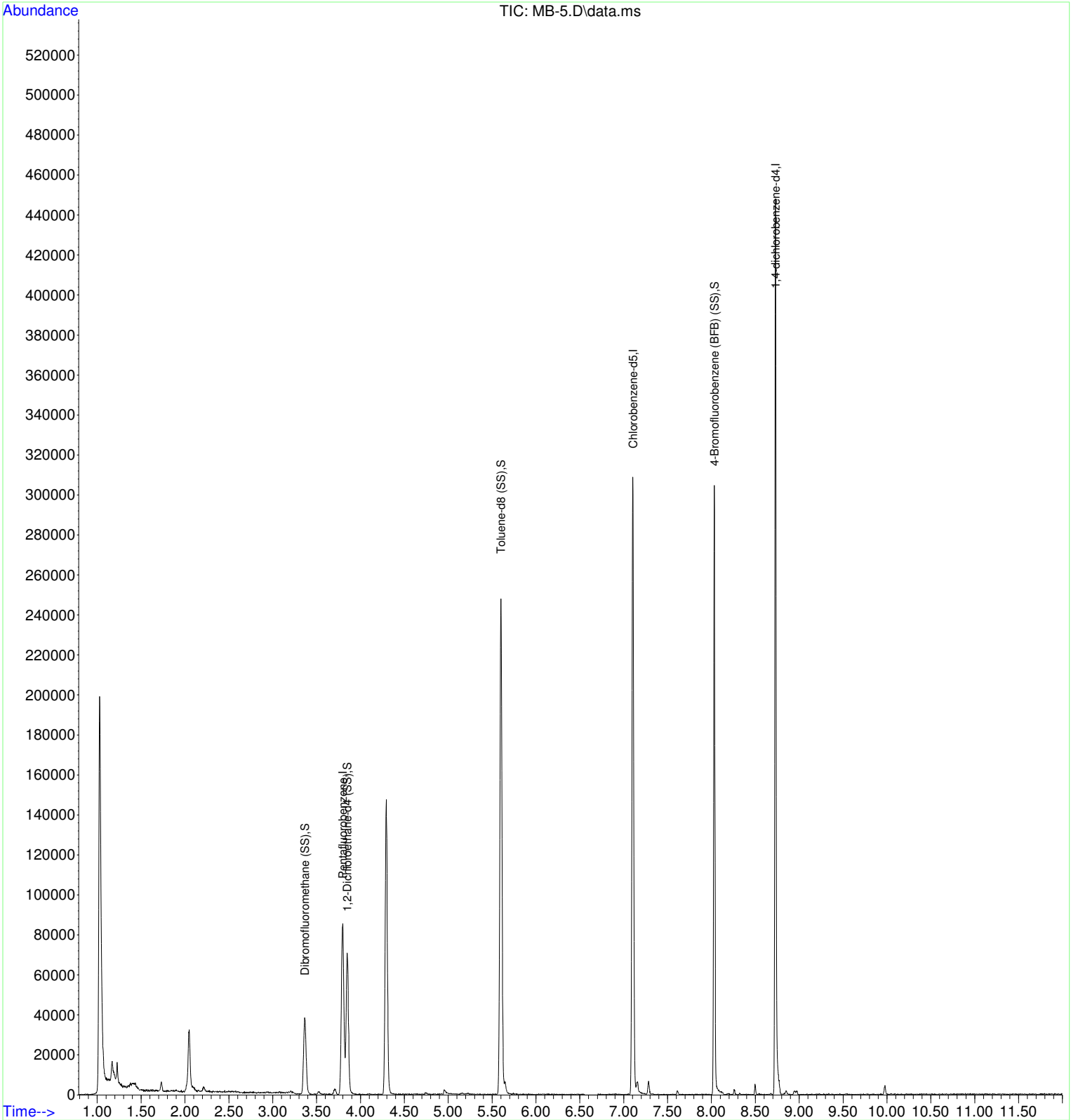
Quant Time: Jun 04 15:35:04 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.798	168	53801	50.00	ppb	0.01
42) Chlorobenzene-d5	7.104	117	116003	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.731	152	64493	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.366	111	24299	46.72	ppb	0.01
Spiked Amount 50.000			Recovery = 93.44%			
32) 1,2-Dichloroethane-d4 ...	3.851	102	6682m	47.45	ppb	0.01
Spiked Amount 50.000			Recovery = 94.90%			
44) Toluene-d8 (SS)	5.601	98	138548	44.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.12%			
63) 4-Bromofluorobenzene (...	8.033	174	44590	41.99	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.98%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-5.D
Acq On : 29 May 2019 9:20 pm
Operator : PS
Sample : MB-5
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:35:04 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-SO-5.D
Acq On : 29 May 2019 10:00 pm
Operator : PS
Sample : MB-SO-5
Misc : SOIL
ALS Vial : 3 Sample Multiplier: 1

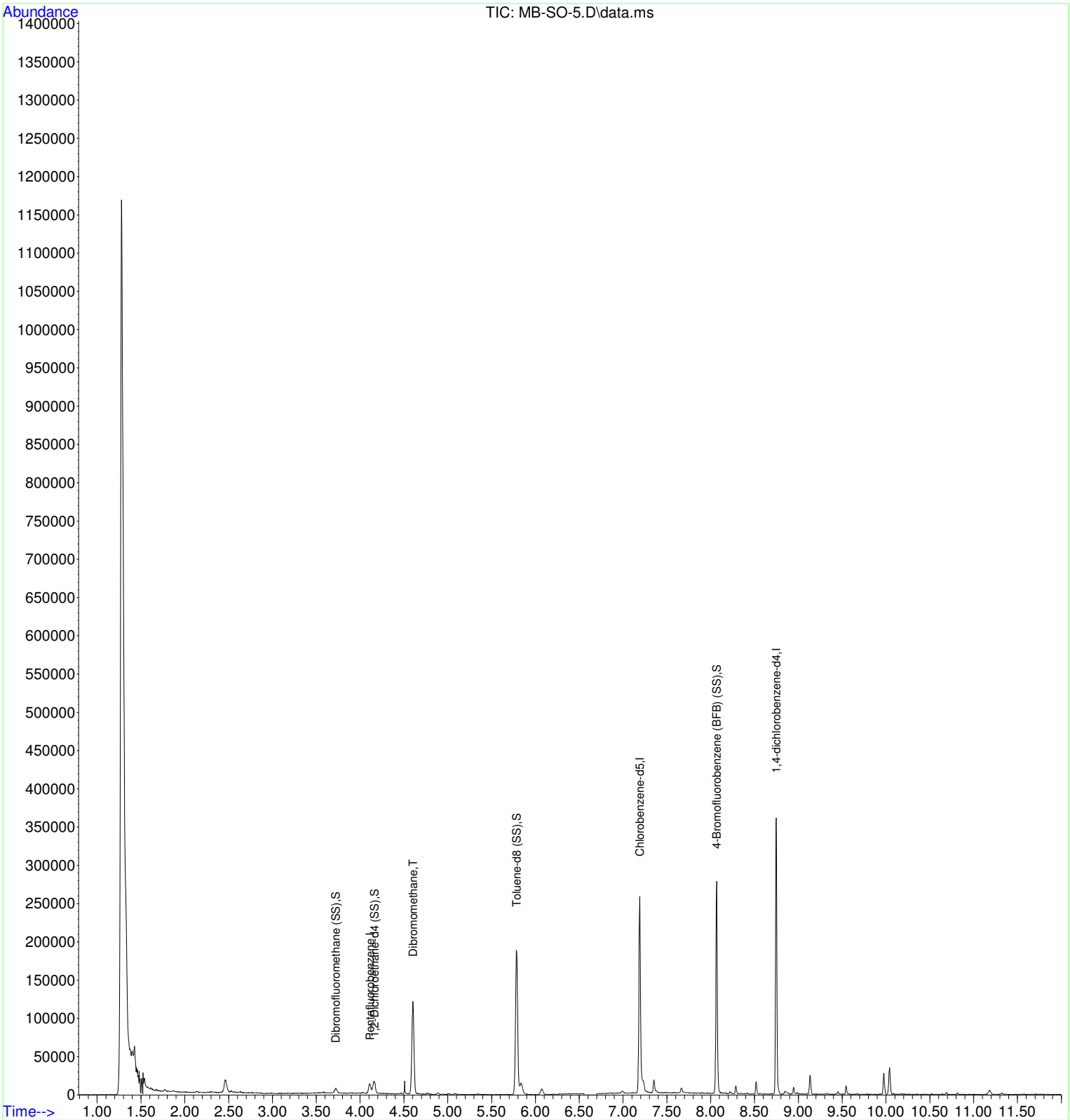
Quant Time: Jun 04 15:35:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.113	168	7152m	50.00	ppb	0.33
42) Chlorobenzene-d5	7.192	117	87346m	50.00	ppb	0.09
62) 1,4-dichlorobenzene-d4	8.747	152	41614	50.00	ppb	# 0.02
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.723	111	3588m	51.90	ppb	0.37
Spiked Amount 50.000			Recovery = 103.80%			
32) 1,2-Dichloroethane-d4 ...	4.163	102	624m	33.33	ppb	0.32
Spiked Amount 50.000			Recovery = 66.66%			
44) Toluene-d8 (SS)	5.786	98	97314m	41.56	ppb	0.19
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.12%			
63) 4-Bromofluorobenzene (...	8.069	174	33673	49.14	ppb	0.04
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.28%			
Target Compounds						Qvalue
35) Dibromomethane	4.603	93	1334	19.15	ppb	# 1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-SO-5.D
Acq On : 29 May 2019 10:00 pm
Operator : PS
Sample : MB-SO-5
Misc : SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 15:35:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

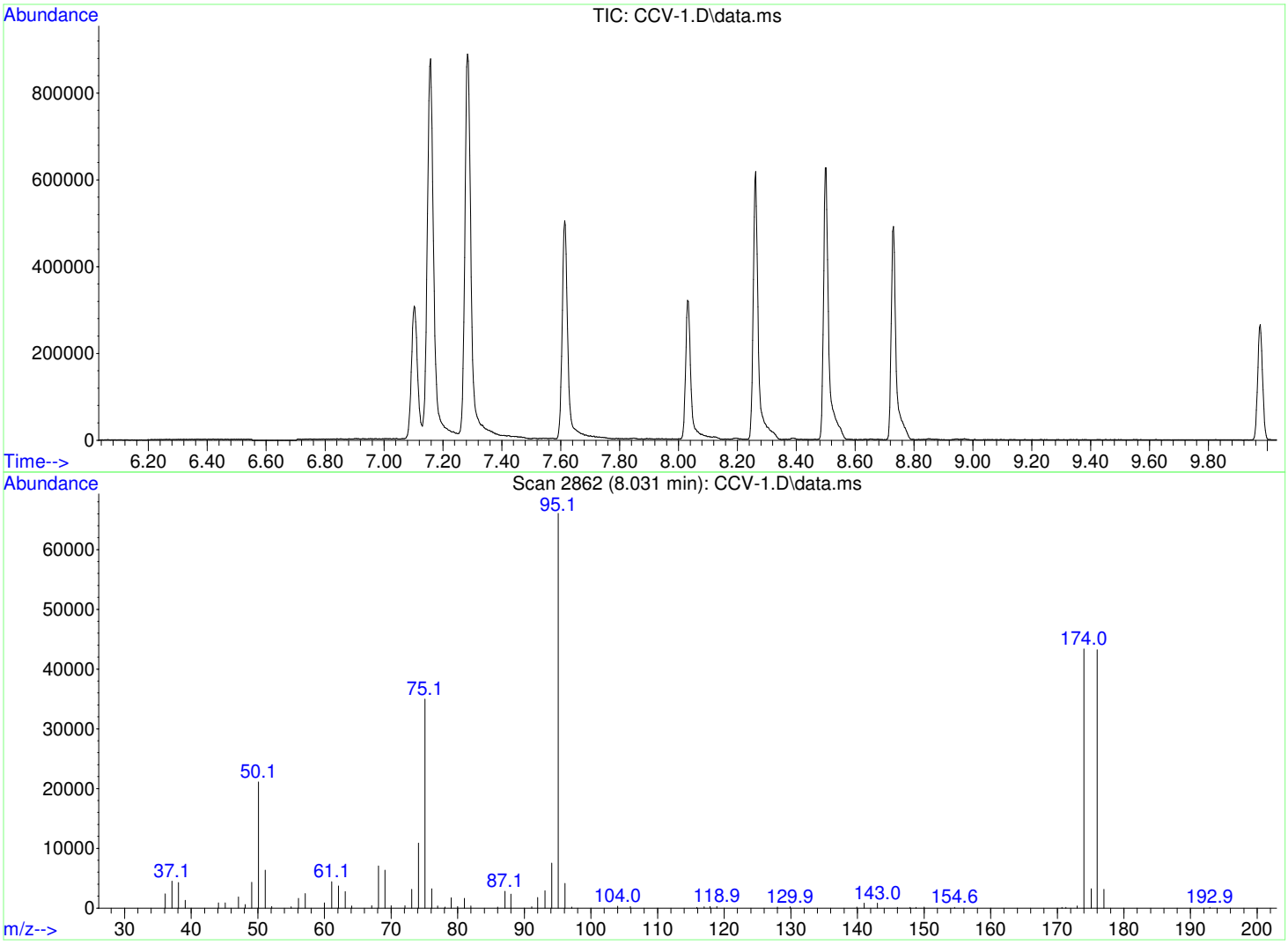


CLPBFB

Data Path : C:\msdchem\1\data\30may2019\
Data File : CCV-1.D
Acq On : 30 May 2019 12:42 pm
Operator : PS
Sample : CCV-1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Title : VOC
Last Update : Mon Jun 03 09:38:56 2019



Spectrum Information: Scan 2862

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.0	21104	PASS
75	95	30	60	53.0	34984	PASS
95	95	100	100	100.0	66048	PASS
96	95	5	9	6.2	4108	PASS
173	174	0.00	2	0.8	335	PASS
174	95	50	100	65.6	43360	PASS
175	174	5	9	7.5	3239	PASS
176	174	95	101	99.7	43216	PASS
177	176	5	9	7.2	3123	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\30may2019\
Data File : CCV-1A.D
Acq On : 30 May 2019 1:01 pm
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

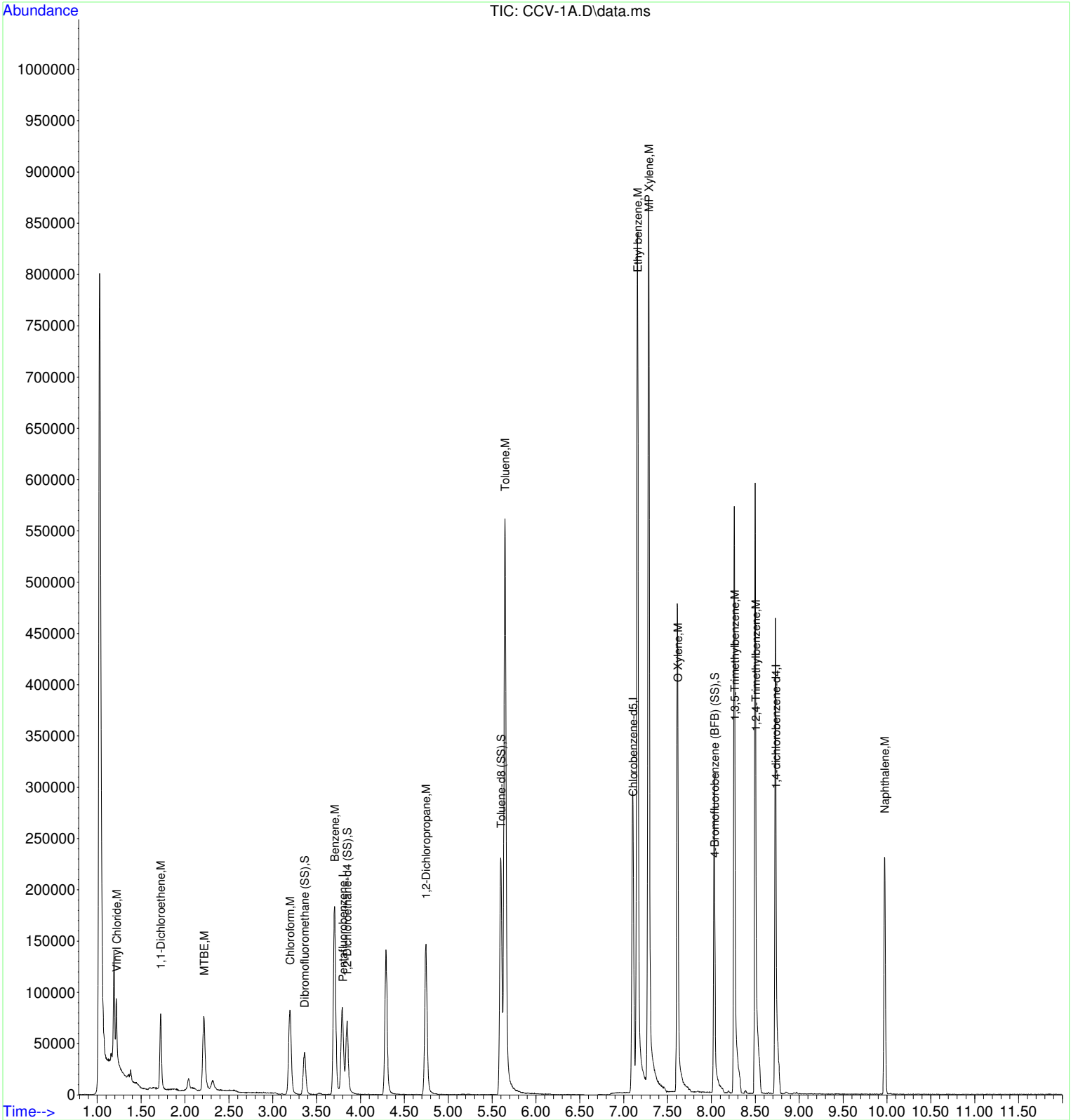
Quant Time: Jun 03 13:29:35 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.801	168	56090m	50.00	ppb		0.02
42) Chlorobenzene-d5	7.106	117	120611	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.734	152	73952	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.363	111	26065	48.07	ppb		0.00
Spiked Amount 50.000			Recovery = 96.14%				
32) 1,2-Dichloroethane-d4 ...	3.848	102	6770	46.11	ppb		0.00
Spiked Amount 50.000			Recovery = 92.22%				
44) Toluene-d8 (SS)	5.601	98	140731	43.53	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.06%				
63) 4-Bromofluorobenzene (...	8.038	174	52570	43.17	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.34%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.222	62	37529	47.08	ppb	#	100
9) 1,1-Dichloroethene	1.723	96	11833m	61.82	ppb		
16) MTBE	2.219	73	44184	39.40	ppb	#	83
24) Chloroform	3.198	83	57614	52.97	ppb		97
30) Benzene	3.705	78	123062m	62.15	ppb		
37) 1,2-Dichloropropane	4.748	63	59537	52.17	ppb	#	97
43) Toluene	5.651	91	361595	117.31	ppb		95
55) Ethyl benzene	7.160	91	499448	122.49	ppb		94
57) MP Xylene	7.286	91	382334	119.66	ppb		97
58) O Xylene	7.617	91	211832	59.27	ppb		96
70) 1,3,5-Trimethylbenzene	8.266	105	225892	54.37	ppb		89
75) 1,2,4-Trimethylbenzene	8.505	105	234713	53.28	ppb		97
85) Naphthalene	9.975	128	117785	19.24	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\30may2019\
Data File : CCV-1A.D
Acq On : 30 May 2019 1:01 pm
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 13:29:35 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration



Untitled
Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\30may2019\
Data File : CCV-1A.D
Acq On : 30 May 2019 1:01 pm
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 13:29:35 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	116	0.01
4	M	Vinyl Chloride	50.000	47.077	5.8	102	0.00
9	M	1,1-Dichloroethene	50.000	61.818	-23.6	158	0.04
16	M	MTBE	50.000	39.398	21.2	83	0.00
24	M	Chloroform	50.000	52.972	-5.9	154	0.00
27	S	Dibromofluoromethane (SS)	50.000	48.070	3.9	120	0.00
30	M	Benzene	50.000	62.147	-24.3	130	0.01
32	S	1,2-Dichloroethane-d4 (SS)	50.000	46.112	7.8	111	0.00
37	M	1,2-Dichloropropane	50.000	52.174	-4.3	121	0.00
42	I	Chlorobenzene-d5	50.000	50.000	0.0	129	0.00
43	M	Toluene	100.000	117.315	-17.3	146	0.00
44	S	Toluene-d8 (SS)	50.000	43.529	12.9	112	0.00
55	M	Ethyl benzene	100.000	122.492	-22.5	153	0.00
57	M	MP Xylene	100.000	119.656	-19.7	148	0.00
58	M	O Xylene	50.000	59.267	-18.5	147	0.00
62	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	148	0.00
63	S	4-Bromofluorobenzene (BFB)	50.000	43.169	13.7	127	0.00
70	M	1,3,5-Trimethylbenzene	50.000	54.372	-8.7	161	0.00
75	M	1,2,4-Trimethylbenzene	50.000	53.285	-6.6	156	0.00
85	M	Naphthalene	50.000	19.239	61.5#	53	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOC-DA-23MAY2019.M Tue Jun 04 13:07:40 2019

- Low Napthalene recovery,
Napthalene data used from 28MAY2019 run, if applicable.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\30may2019\
Data File : MB-1.D
Acq On : 30 May 2019 1:40 pm
Operator : PS
Sample : MB-1
Misc :
ALS Vial : 3 Sample Multiplier: 1

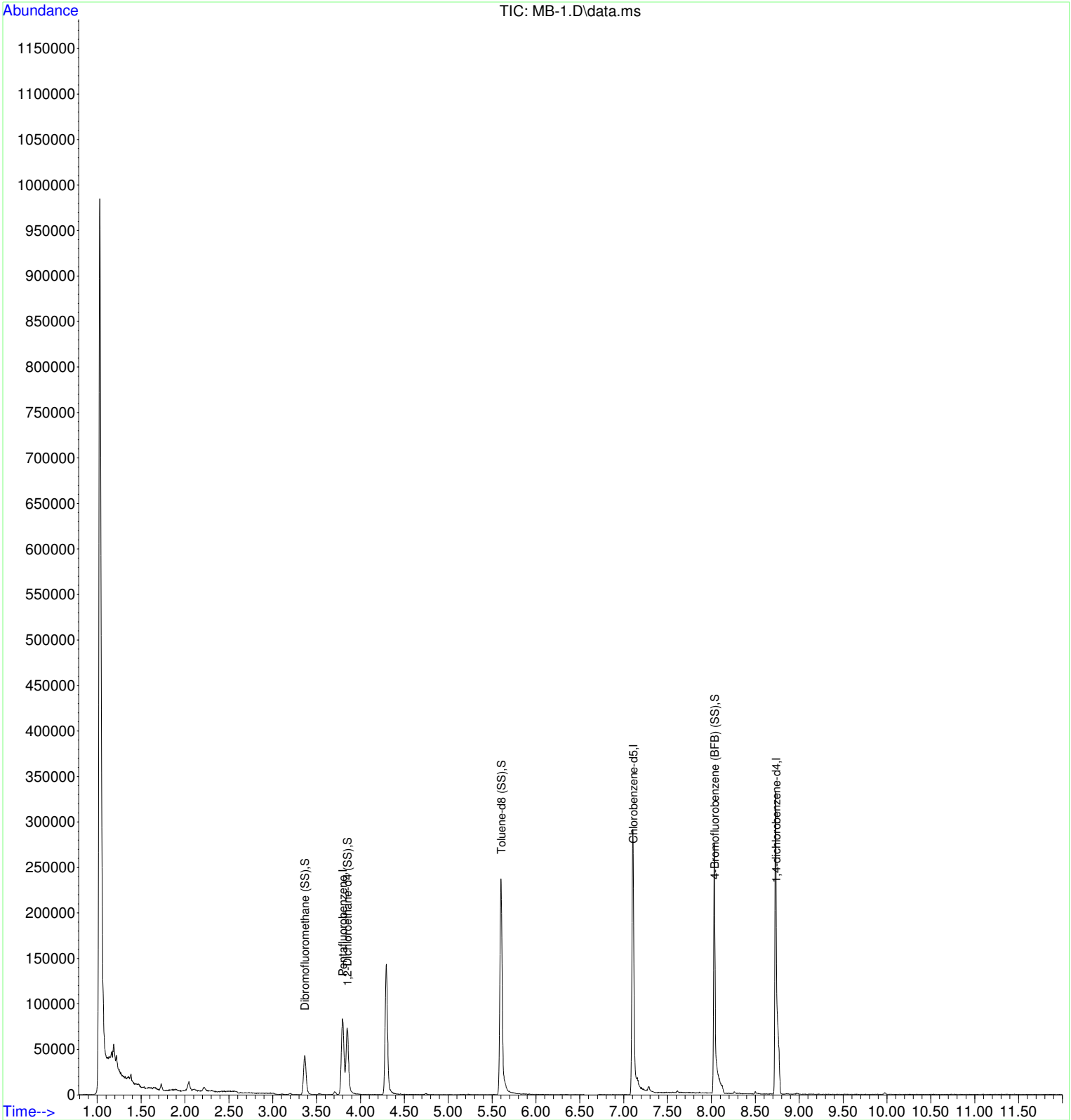
Quant Time: Jun 04 07:43:57 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.799	168	57391	50.00	ppb	0.02
42) Chlorobenzene-d5	7.109	117	124464	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.739	152	66695	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.367	111	27615	49.77	ppb	0.01
Spiked Amount 50.000			Recovery = 99.54%			
32) 1,2-Dichloroethane-d4 ...	3.854	102	7196m	47.90	ppb	0.01
Spiked Amount 50.000			Recovery = 95.80%			
44) Toluene-d8 (SS)	5.605	98	146873	44.02	ppb	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.04%			
63) 4-Bromofluorobenzene (...	8.038	174	49269	44.86	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.72%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\30may2019\
Data File : MB-1.D
Acq On : 30 May 2019 1:40 pm
Operator : PS
Sample : MB-1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 07:43:57 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2867.D
Acq On : 29 May 2019 11:37 pm
Operator : PS
Sample : 19-2867
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 0.99

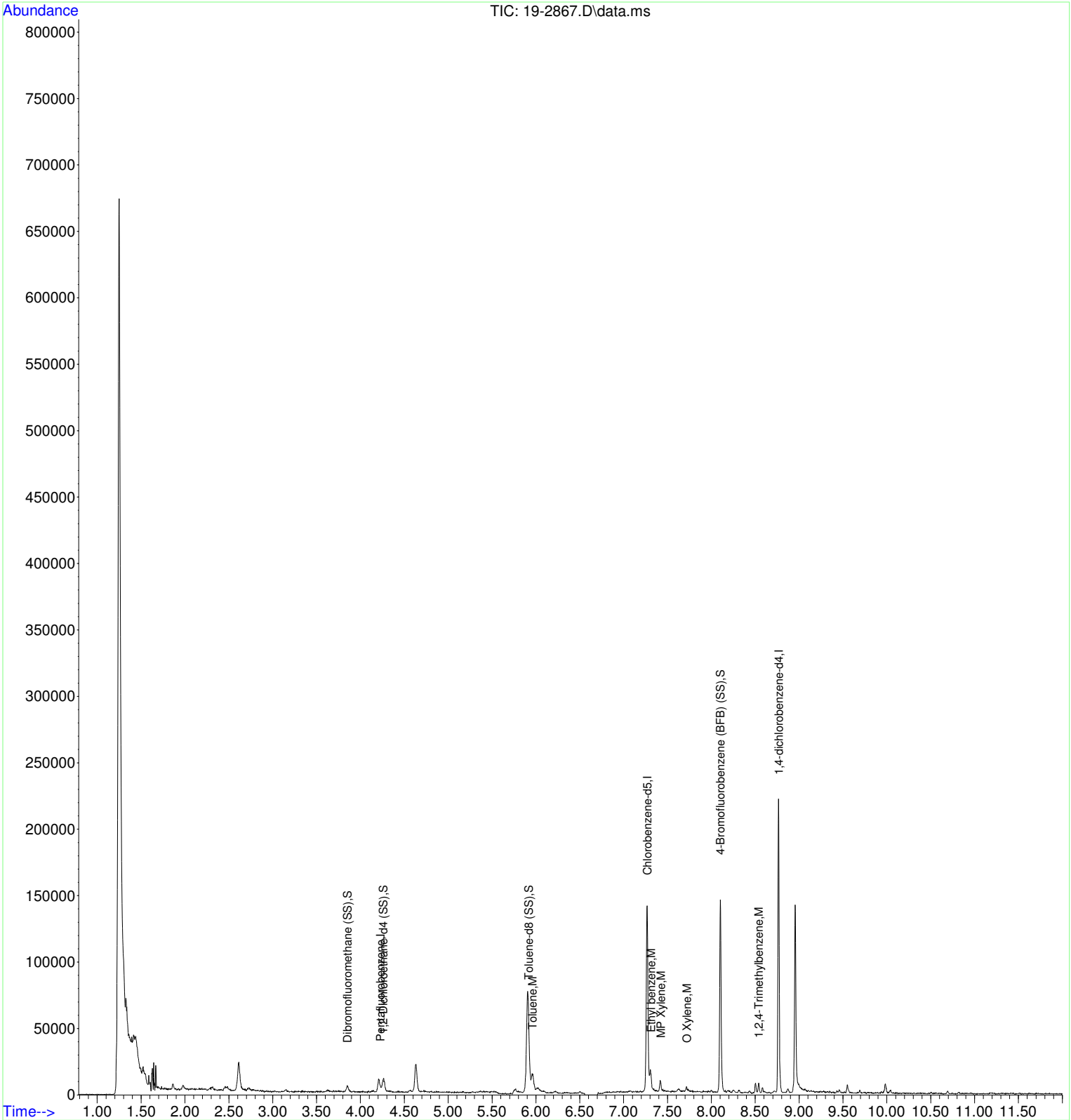
Quant Time: May 30 12:21:13 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.226	168	6592m	50.00	ppb	0.44
42) Chlorobenzene-d5	7.270	117	46516m	50.00	ppb	0.17
62) 1,4-dichlorobenzene-d4	8.765	152	25242	50.00	ppb	# 0.04
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.854	111	2409m	37.80	ppb	0.50
Spiked Amount 50.000			Recovery = 75.60%			
32) 1,2-Dichloroethane-d4 ...	4.261	102	364m	21.10	ppb	0.42
Spiked Amount 50.000			Recovery = 42.20%			
44) Toluene-d8 (SS)	5.919	98	52770m	42.32	ppb	0.33
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.64%			
63) 4-Bromofluorobenzene (...	8.104	174	18399	44.26	ppb	0.07
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.52%			
Target Compounds						Qvalue
43) Toluene	5.962	91	7630m	6.35	ppb	
55) Ethyl benzene	7.313	91	4562m	2.87	ppb	
57) MP Xylene	7.423	91	3741m	3.01	ppb	
58) O Xylene	7.720	91	1509m	1.08	ppb	
75) 1,2,4-Trimethylbenzene	8.541	105	2308	1.43	ppb	# 44

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2867.D
Acq On : 29 May 2019 11:37 pm
Operator : PS
Sample : 19-2867
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 0.99

Quant Time: May 30 12:21:13 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2874-MS.D
Acq On : 30 May 2019 1:51 am
Operator : PS
Sample : 19-2874-MS
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

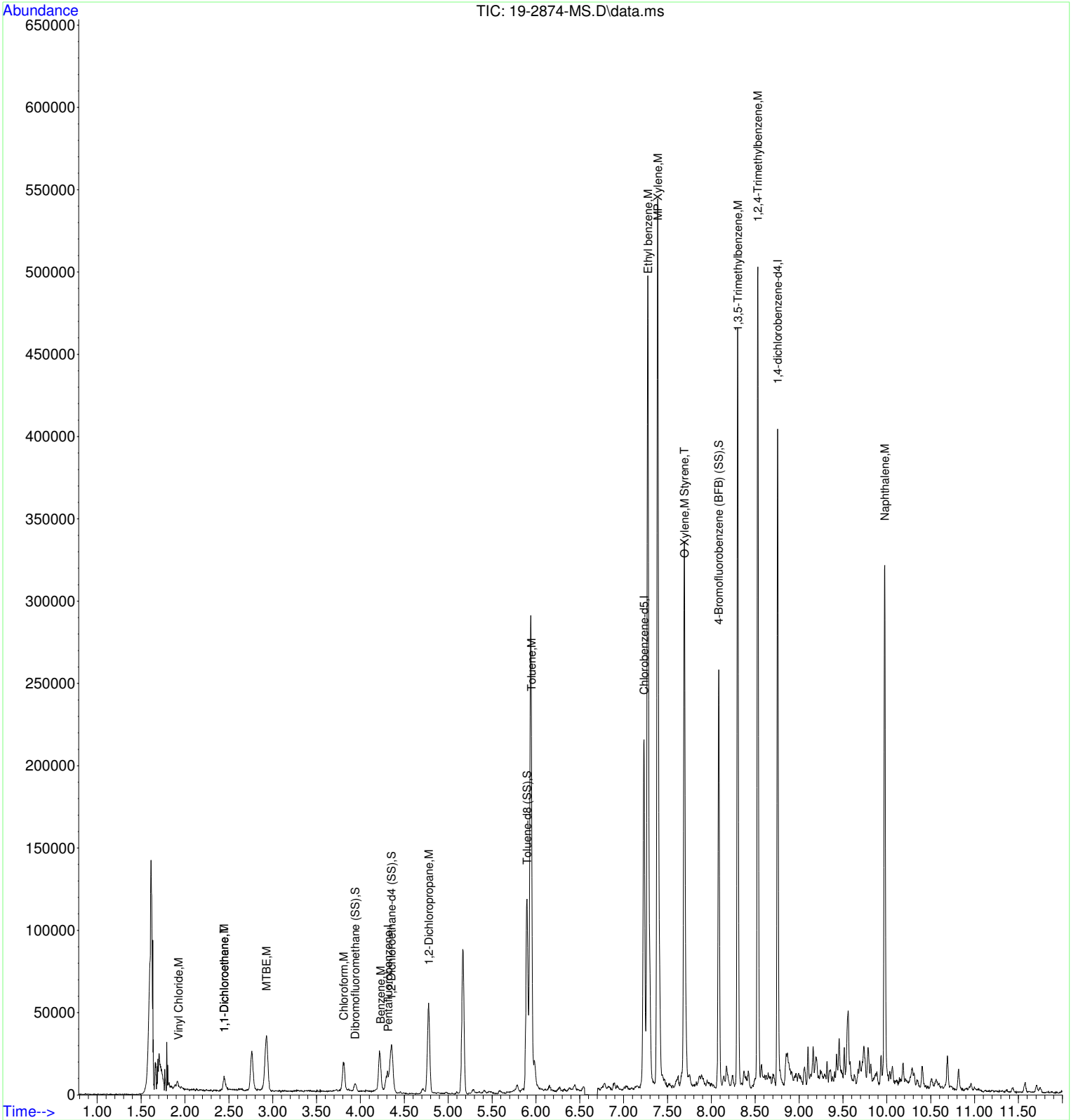
Quant Time: May 30 12:32:03 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.317	168	8150m	50.00	ppb		0.53
42) Chlorobenzene-d5	7.232	117	63673m	50.00	ppb		0.13
62) 1,4-dichlorobenzene-d4	8.755	152	42677	50.00	ppb	#	0.03
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.939	111	2453m	31.13	ppb		0.58
Spiked Amount 50.000			Recovery = 62.26%				
32) 1,2-Dichloroethane-d4 ...	4.352	102	3463m	162.33	ppb		0.51
Spiked Amount 50.000			Recovery = 324.66%				
44) Toluene-d8 (SS)	5.901	98	59830m	35.05	ppb		0.31
Spiked Amount 50.000	Range 70 - 130		Recovery = 70.10%				
63) 4-Bromofluorobenzene (...	8.086	174	29576	42.09	ppb		0.06
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.18%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.927	62	4115m	34.96	ppb		
9) 1,1-Dichloroethene	2.448	96	939m	33.76	ppb		
16) MTBE	2.928	73	16357m	100.38	ppb		
18) 1,1-Dichloroethane	2.447	63	1480	10.98	ppb	#	52
24) Chloroform	3.808	83	7079m	44.79	ppb		
30) Benzene	4.231	78	10377m	36.07	ppb		
37) 1,2-Dichloropropane	4.779	63	11107m	66.99	ppb		
43) Toluene	5.949	91	159647m	98.11	ppb		
55) Ethyl benzene	7.277	91	255236m	118.57	ppb		
57) MP Xylene	7.391	91	219028m	129.84	ppb		
58) O Xylene	7.695	91	125791m	66.67	ppb		
59) Styrene	7.693	104	2467	1.31	ppb	#	1
70) 1,3,5-Trimethylbenzene	8.300	105	139306	58.42	ppb		88
75) 1,2,4-Trimethylbenzene	8.530	105	150004	59.46	ppb		94
85) Naphthalene	9.976	128	122244	34.60	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2874-MS.D
Acq On : 30 May 2019 1:51 am
Operator : PS
Sample : 19-2874-MS
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 12:32:03 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2875-MSD.D
Acq On : 30 May 2019 2:11 am
Operator : PS
Sample : 19-2875-MSD
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 30 12:34:29 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

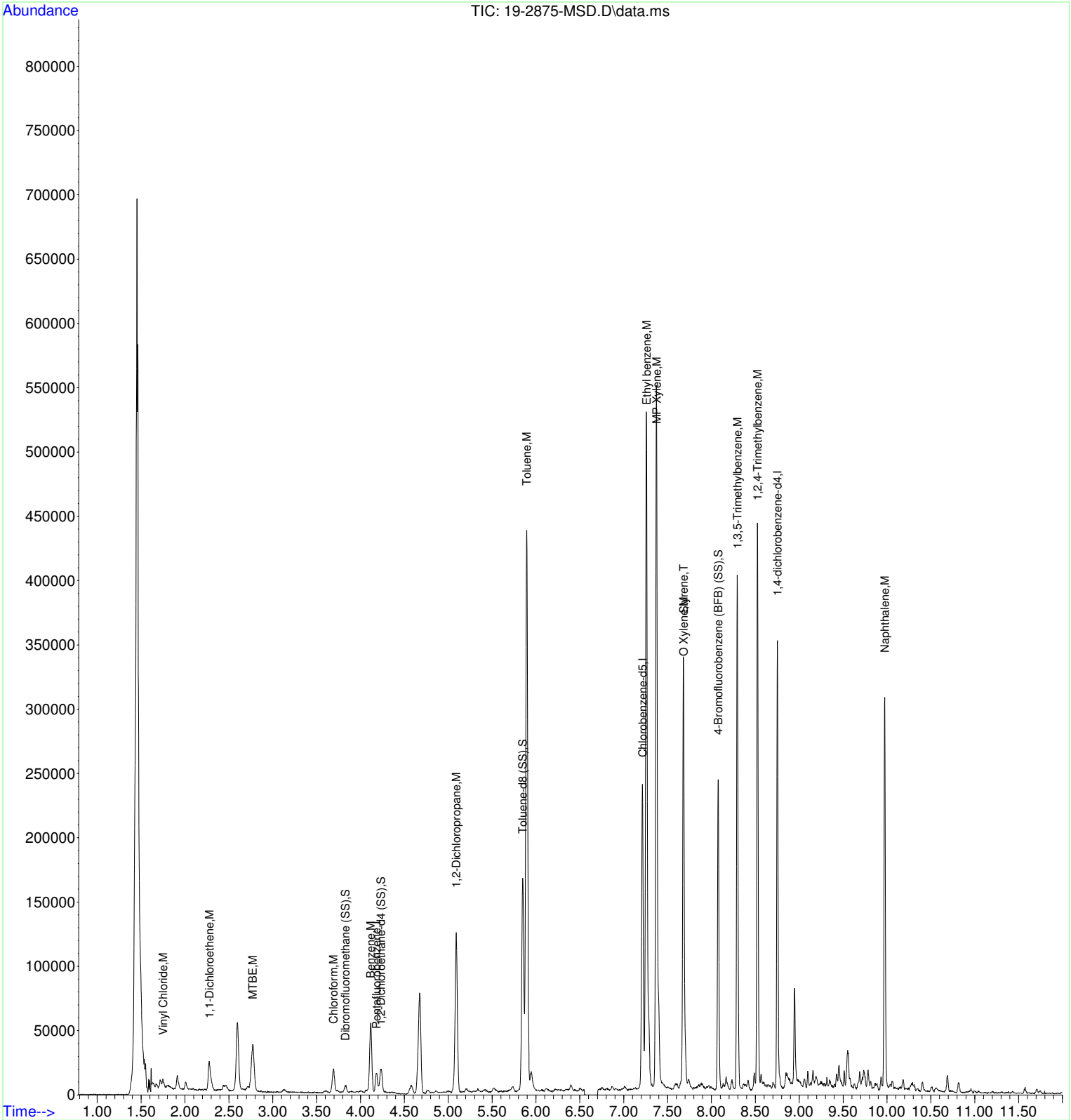
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.183	168	8296m	50.00	ppb		0.40
42) Chlorobenzene-d5	7.216	117	70307m	50.00	ppb		0.11
62) 1,4-dichlorobenzene-d4	8.751	152	38502	50.00	ppb	#	0.02
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.826	111	2962m	36.93	ppb		0.47
Spiked Amount 50.000			Recovery =	73.86%			
32) 1,2-Dichloroethane-d4 ...	4.234	102	895m	41.22	ppb		0.39
Spiked Amount 50.000			Recovery =	82.44%			
44) Toluene-d8 (SS)	5.849	98	78894m	41.86	ppb		0.26
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.72%			
63) 4-Bromofluorobenzene (...	8.079	174	29071	45.85	ppb		0.05
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.70%			
Target Compounds							Qvalue
4) Vinyl Chloride	1.751	62	4450m	37.25	ppb		
9) 1,1-Dichloroethene	2.279	96	3047m	107.62	ppb		
16) MTBE	2.772	73	16168m	97.47	ppb		
24) Chloroform	3.690	83	7531m	46.82	ppb		
30) Benzene	4.116	78	19085m	65.16	ppb		
37) 1,2-Dichloropropane	5.092	63	37482m	222.08	ppb		
43) Toluene	5.894	91	224192m	124.78	ppb		
55) Ethyl benzene	7.261	91	268622m	113.02	ppb		
57) MP Xylene	7.377	91	224024m	120.27	ppb		
58) O Xylene	7.684	91	125426m	60.20	ppb		
59) Styrene	7.681	104	2530	1.21	ppb	#	1
70) 1,3,5-Trimethylbenzene	8.295	105	124287	57.72	ppb		87
75) 1,2,4-Trimethylbenzene	8.526	105	133537	58.61	ppb		94
85) Naphthalene	9.975	128	113364	35.57	ppb		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2875-MSD.D
Acq On : 30 May 2019 2:11 am
Operator : PS
Sample : 19-2875-MSD
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 30 12:34:29 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Untitled
Spike Recovery and RPD Summary Report - SOIL

Method Path : C:\msdchem\1\methods\
Method File : VOC-DA-23MAY2019.M
Title : VOC
Last Update : Mon Jun 03 09:38:56 2019
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\data\28may2019\

------Sample-------
File : 19-2867.D
Name : 19-2867 Acq Time: 29 May 2019 11:37 pm

------Spike--------
File : 19-2874-MS.D
Name : 19-2874-MS Acq Time: 30 May 2019 1:51 am

--Spike Duplicate--
File : 19-2875-MSD.D
Name : 19-2875-MSD Acq Time: 30 May 2019 2:11 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Vinyl Chloride	0.0	50	35	37	70	75	6	20	23-169
1,1-Dichloroethene	0.0	50	34	108	68	215#	104#	20	31-146
MTBE	0.0	50	100	97	201#	195#	3	20	36-158
Chloroform	0.0	50	45	47	90	94	4	20	70-135
Benzene	0.0	50	36	65	72	130	57#	20	64-143
1,2-Dichloropropane	0.0	50	67	222	134	444#	107#	20	54-135
Toluene	6.4	100	98	125	92	118	25#	20	69-132
Ethyl benzene	2.9	100	119	113	116	110	5	20	71-131
MP Xylene	3.0	100	130	120	127	117	8	20	49-167
O Xylene	1.1	50	67	60	131	118	10	20	76-140
1,3,5-Trimethylbenze	0.7	50	58	58	115	114	1	20	77-145
1,2,4-Trimethylbenze	1.4	50	59	59	116	114	1	20	59-164
Naphthalene	0.9	50	35	36	67	69	3	20	51-137

- Fails Limit Check

VOC-DA-23MAY2019.M Tue Jun 04 14:09:48 2019

- High variability in soil purge, MeOH dilutions analyzed and included

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2867x25.D
Acq On : 30 May 2019 6:43 pm
Operator : PS
Sample : 19-2867x25
Misc : SOIL
ALS Vial : 4 Sample Multiplier: 49.65

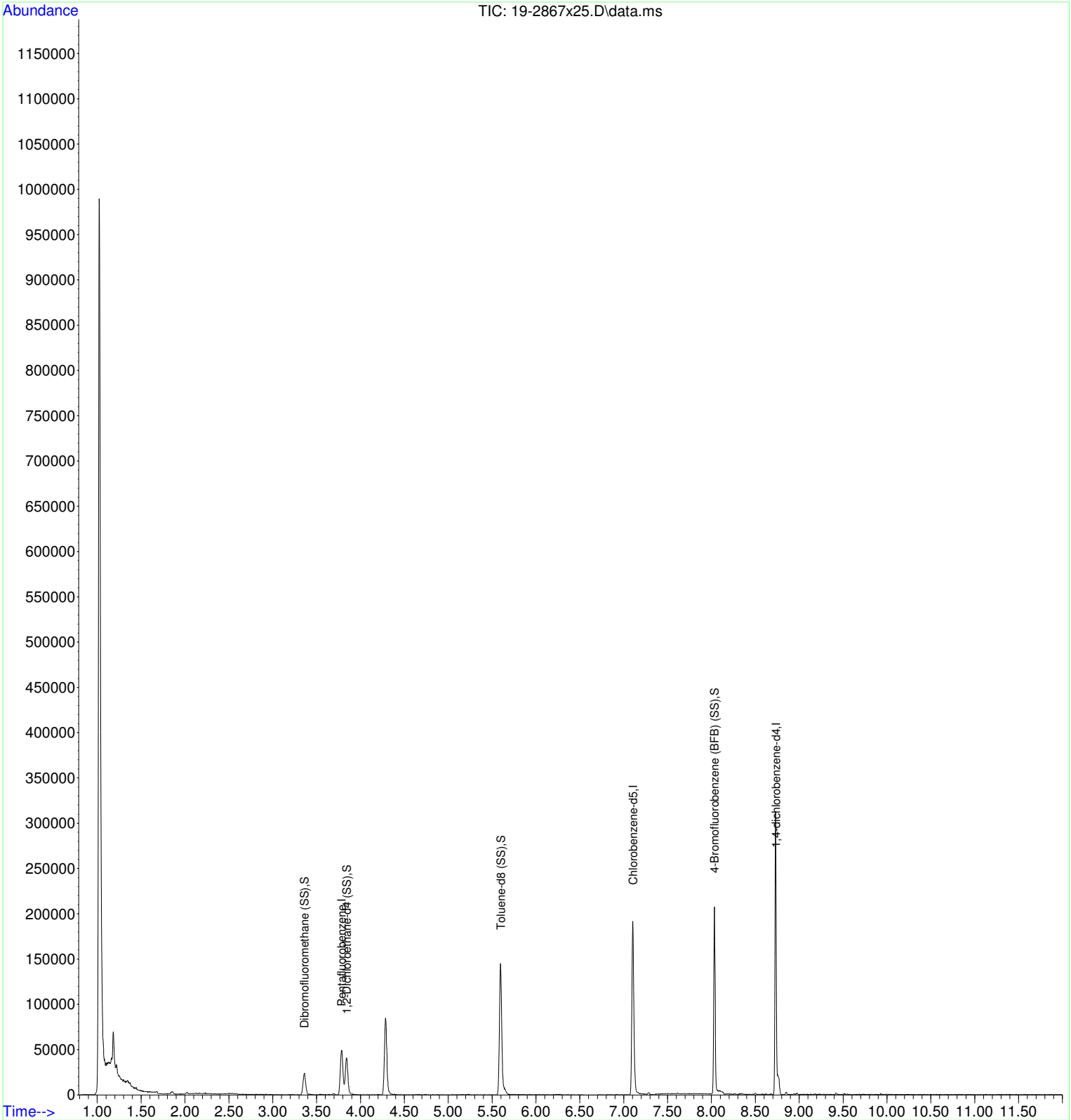
Quant Time: Jun 04 12:37:31 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.787	168	32441	50.00	ppb	0.00
42) Chlorobenzene-d5	7.105	117	77479	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.734	152	42782	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.362	111	16008	51.04	ppb	0.00
Spiked Amount 50.000			Recovery = 102.08%			
32) 1,2-Dichloroethane-d4 ...	3.843	102	4443	52.32	ppb	0.00
Spiked Amount 50.000			Recovery = 104.64%			
44) Toluene-d8 (SS)	5.599	98	88232	42.48	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.96%			
63) 4-Bromofluorobenzene (...	8.035	174	30431	43.20	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.40%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2867x25.D
Acq On : 30 May 2019 6:43 pm
Operator : PS
Sample : 19-2867x25
Misc : SOIL
ALS Vial : 4 Sample Multiplier: 49.65

Quant Time: Jun 04 12:37:31 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Mon Jun 03 09:38:56 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2874-MSx25.D
Acq On : 30 May 2019 7:02 pm
Operator : PS
Sample : 19-2874-MSx25
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

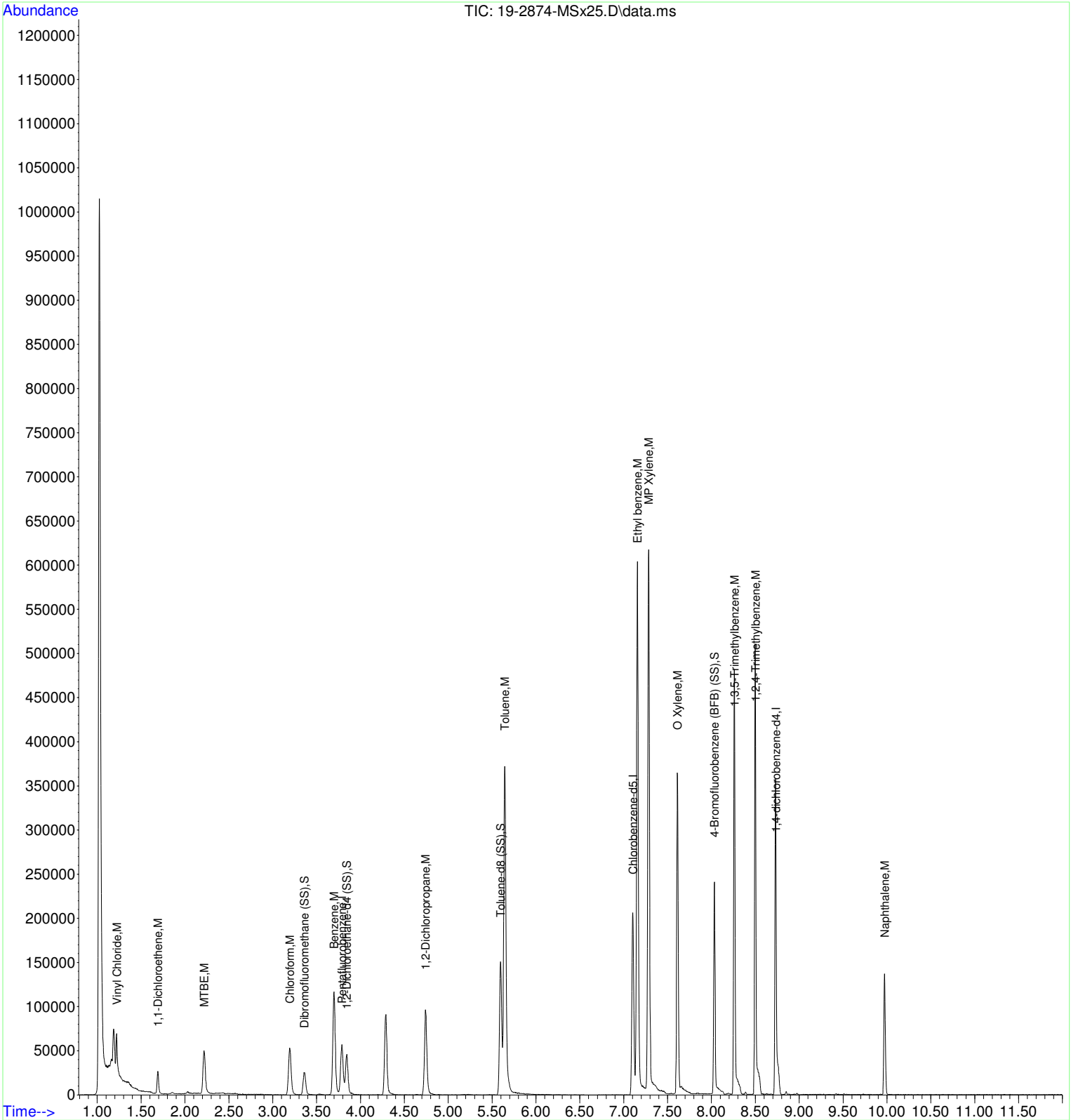
Quant Time: May 31 15:15:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	35836	50.00	ppb		0.00
42) Chlorobenzene-d5	7.104	117	82077	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.735	152	54430	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.362	111	17318	49.99	ppb		0.00
Spiked Amount 50.000			Recovery = 99.98%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	4700	50.11	ppb		0.00
Spiked Amount 50.000			Recovery = 100.22%				
44) Toluene-d8 (SS)	5.598	98	90823	41.28	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 82.56%				
63) 4-Bromofluorobenzene (...	8.034	174	36342	40.55	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 81.10%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.227	62	28096	55.81	ppb	#	100
9) 1,1-Dichloroethene	1.693	96	4511	36.89	ppb	#	75
16) MTBE	2.219	73	28312	39.51	ppb	#	87
24) Chloroform	3.196	83	35899	51.66	ppb		96
30) Benzene	3.701	78	82933	65.55	ppb		92
37) 1,2-Dichloropropane	4.745	63	35297	48.41	ppb	#	91
43) Toluene	5.649	91	244142	116.40	ppb		95
55) Ethyl benzene	7.159	91	347803	125.35	ppb		94
57) MP Xylene	7.285	91	275416	126.66	ppb		94
58) O Xylene	7.614	91	152972	62.89	ppb		96
70) 1,3,5-Trimethylbenzene	8.264	105	172731	56.66	ppb		87
75) 1,2,4-Trimethylbenzene	8.504	105	180184	55.74	ppb		96
85) Naphthalene	9.974	128	67013	14.87	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2874-MSx25.D
Acq On : 30 May 2019 7:02 pm
Operator : PS
Sample : 19-2874-MSx25
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 15:15:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2875-MSDx25.D
Acq On : 30 May 2019 7:21 pm
Operator : PS
Sample : 19-2875-MSDx25
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

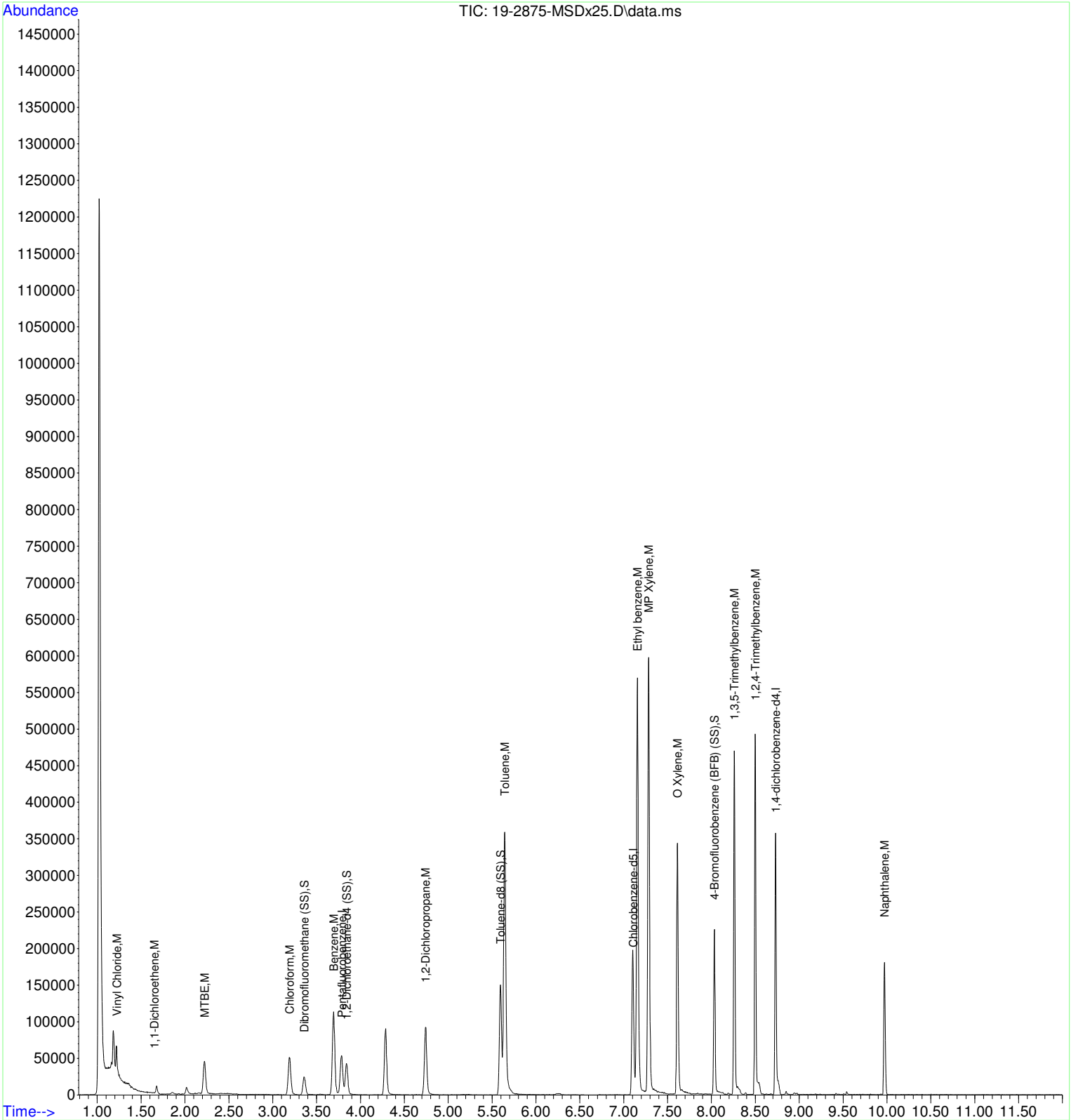
Quant Time: May 31 15:17:01 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	35809m	50.00	ppb		0.00
42) Chlorobenzene-d5	7.110	117	81575m	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.733	152	50154	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.360	111	16767	48.44	ppb		0.00
Spiked Amount 50.000			Recovery = 96.88%				
32) 1,2-Dichloroethane-d4 ...	3.842	102	4472	47.71	ppb		0.00
Spiked Amount 50.000			Recovery = 95.42%				
44) Toluene-d8 (SS)	5.598	98	91152	41.69	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.38%				
63) 4-Bromofluorobenzene (...	8.035	174	34650	41.96	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.92%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.228	62	30878	61.90	ppb	#	100
9) 1,1-Dichloroethene	1.653	96	879m	7.19	ppb		
16) MTBE	2.224	73	27180m	37.96	ppb		
24) Chloroform	3.193	83	34980	50.38	ppb		97
30) Benzene	3.695	78	81236	64.26	ppb		92
37) 1,2-Dichloropropane	4.744	63	33963	46.62	ppb	#	89
43) Toluene	5.648	91	236403	113.40	ppb		96
55) Ethyl benzene	7.158	91	332173	120.45	ppb		94
57) MP Xylene	7.284	91	264433	122.36	ppb		95
58) O Xylene	7.614	91	147019	60.82	ppb		96
70) 1,3,5-Trimethylbenzene	8.261	105	157981	56.21	ppb		88
75) 1,2,4-Trimethylbenzene	8.502	105	172660	58.14	ppb		93
85) Naphthalene	9.974	128	86537	20.84	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\30may2019\
Data File : 19-2875-MSDx25.D
Acq On : 30 May 2019 7:21 pm
Operator : PS
Sample : 19-2875-MSDx25
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 15:17:01 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Untitled
Spike Recovery and RPD Summary Report - SOIL

Method Path : C:\msdchem\1\methods\
Method File : VOC-DA-23MAY2019.M
Title : VOC
Last Update : Mon Jun 03 09:38:56 2019
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\data\30may2019\

------Sample-------
File : 19-2867x25.D
Name : 19-2867x25 Acq Time: 30 May 2019 6:43 pm

------Spike--------
File : 19-2874-MSx25.D
Name : 19-2874-MSx25 Acq Time: 30 May 2019 7:02 pm

--Spike Duplicate--
File : 19-2875-MSDx25.D
Name : 19-2875-MSDx25 Acq Time: 30 May 2019 7:21 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Vinyl Chloride	0.0	50	56	62	112	124	10	20	23-169
1,1-Dichloroethene	0.0	50	37	7	74	14#	135#	20	31-146
MTBE	0.0	50	40	38	79	76	4	20	36-158
Chloroform	0.0	50	52	50	103	101	3	20	70-135
Benzene	0.0	50	66	64	131	129	2	20	64-143
1,2-Dichloropropane	0.0	50	48	47	97	93	4	20	54-135
Toluene	0.0	100	116	113	116	113	3	20	69-132
Ethyl benzene	0.0	100	125	120	125	120	4	20	71-131
MP Xylene	0.0	100	127	122	127	122	3	20	49-167
O Xylene	0.0	50	63	61	126	122	3	20	76-140
1,3,5-Trimethylbenze	0.0	50	57	56	113	112	1	20	77-145
1,2,4-Trimethylbenze	0.0	50	56	58	111	116	4	20	59-164
Naphthalene	0.0	50	15	21	30#	42#	33#	20	51-137

- Fails Limit Check

VOC-DA-23MAY2019.M Tue Jun 04 12:54:08 2019

- 1,1-Dichloroethene is within acceptable limits on CCV. Sample interference.
- Low Napthalene recovery in CCV check.

TOTAL SOLIDS
5035

Analyst DD

Oven Used: Binder: Redline. Model: 9090-0004 RF53-UL, SN: RL10-06652

Balance Used: Mettler Toledo: AG204. SNR: 1115192488, TDNR: 26215121

Cal. Weights Used: Mettler Toledo: F2AC. SN: 01574117-001, No. 11118457

Date Analyzed 5/29/2019

Drying Oven Temp 105

Last Calibration Date 1/8/2019

$$\text{Calculation} = \frac{(C - A) \times 100}{(B - A)}$$

	Sample #	Aluminium Tray Symbol	Date In / Time In	Date Out / Time Out	Tare Wt. (g) A	Wet Wt. (g) B	Dry Wt. (g) C	Result (%)
	LFB (Std. Weight)							
1	Method Blank		5/29/19 1600	5/30/19 1000	2.2200	10.3786	10.3786	100.00%
2	19-2863	4	5/29/19 1600	5/30/19 1000	2.4030	6.4454	5.5600	78.10%
3	19-2864	5	5/29/19 1600	5/30/19 1000	2.3236	8.1751	6.6434	73.82%
4	19-2865	6	5/29/19 1600	5/30/19 1000	2.3402	7.6610	7.3567	94.28%
5	19-2866	7	5/29/19 1600	5/30/19 1000	2.2982	8.2698	7.1852	81.84%
6	19-2867	8	5/29/19 1600	5/30/19 1000	2.3255	8.3269	7.1145	79.80%
7	19-2868	9	5/29/19 1600	5/30/19 1000	2.2577	8.2637	7.0303	79.46%
8	19-2869	10	5/29/19 1600	5/30/19 1000	2.2544	6.5437	5.7170	80.73%
9	19-2870	11	5/29/19 1600	5/30/19 1000	2.2875	8.4284	7.2854	81.39%
10	19-2871	12	5/29/19 1600	5/30/19 1000	2.3462	8.8594	7.7982	83.71%
11	19-2872	13	5/29/19 1600	5/30/19 1000	2.3655	8.3881	6.5972	70.26%
12	19-2873	14						#DIV/0!
13	19-2874-MS	15	5/29/19 1600	5/30/19 1000	2.3015	7.8094	6.8232	82.09%
14	19-2875-MSD	16	5/29/19 1600	5/30/19 1000	2.2752	8.1182	7.0162	81.14%
15								#DIV/0!
16								#DIV/0!
17								#DIV/0!
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53								#DIV/0!

EPA 5035A
VOC SOILS

Soil VOC (=Xs*Vt*D/(Ws*TS%))

SA#	Ini Wt. (g)	Fin Wt. (g)	Weight	Seq. Multiplier	Vt	D	Total Solids (TS%)
19-2863	32.53	37.96	5.43	1.179	5	1	78.10%
19-2864	32.47	38.65	6.18	1.096	5	1	73.82%
19-2865	32.52	38.53	6.01	0.882	5	1	94.28%
19-2866	32.93	39.17	6.24	0.979	5	1	81.84%
19-2867	32.65	38.98	6.33	0.990	5	1	79.80%
19-2868	32.59	38.90	6.31	0.997	5	1	79.46%
19-2869	32.52	38.72	6.20	0.999	5	1	80.73%
19-2870	32.93	39.57	6.64	0.925	5	1	81.39%
19-2871	32.47	39.29	6.82	0.876	5	1	83.71%
19-2872	32.92	38.71	5.79	1.229	5	1	70.26%
19-2874-MS	32.94	39.45	6.51	0.936	5	1	82.09%
19-2875-MSD	32.84	39.14	6.30	0.978	5	1	81.14%
Dilutions							
19-2868x25	29.38	36.45	7.07	44.499	10	25	79.46%
19-2869x25	30.02	36.26	6.24	49.629	10	25	80.73%
19-2870x25	29.40	34.77	5.37	57.202	10	25	81.39%
19-2871x25	29.24	34.95	5.71	52.305	10	25	83.71%
19-2872x25	30.03	35.37	5.34	66.630	10	25	70.26%
19-2874-MSx25	30.02	36.02	6.00	50.754	10	25	82.09%
19-2875-MSDx25	29.26	32.91	3.65	84.414	10	25	81.14%
19-2863x1	32.76	37.17	4.41	1.452	5	1	78.10%
19-2864X25	30.11	35.60	5.49	61.684	10	25	73.82%
19-2865X25	29.28	36.77	7.49	35.403	10	25	94.28%
19-2866X25	30.11	36.42	6.31	48.413	10	25	81.84%
19-2867X25	30.01	36.32	6.31	49.650	10	25	79.80%

Concentration ug/kg = $\frac{Xs}{Ws} \times Vt \times D$

Xs = ng/mL response from instrument, or sequence multiplier x5 as ng
Vt = total volume of extract solvent, if extracted
D = dilution if extracted
Ws = weight of sample extracted or purged
TS% = Total solids %, Can be included in Vt or applied to Ws

LSAI LABORATORIES

QF-5 3.1 Rev 1
Effective: 12/1/14

THERMOMETER TEMPERATURE RECORD

January - June

DEPT. Sample Reception #1 TEMPERATURE RANGE 2.0°C TO 6.0°C

YEAR 2019 Thermometer Variance _____ Next Thermometer Calibration Date _____

MONTH	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL
DAY 1			3.5°C	ML	4.0°C	ML	4.0°C	ML	6.1	PKS	2.6min	ML
2	2.5°C	ML	2.4min	ML	3.2min	ML	3.5°C	ML	5.2	PKS	5.7max	ML
3	4.0°C	ML	5.4max	ML	5.7max	ML	4.0°C	ML	4.8	PKS	4.5°C	ML
4	2.5°C	ML	3.5°C	ML	3.5°C	ML	3.5°C	ML			3.5°C	ML
5	2.8min	ML	4.0°C	ML	3.5°C	ML	4.0°C	ML				
6	5.4max	ML	3.0°C	ML	2.5°C	ML	3.5min	ML				
7	4.0°C	ML	4.5°C	ML	5.0°C	ML	5.5max	ML	2.5°C	ML		
8	3.0°C	ML	4.0°C	ML	3.0°C	ML	4.0°C	ML	4.0°C	ML		
9	4.0°C	ML	2.2min	ML	2.8min	ML	2.5°C	ML	2.0°C	ML		
10	3.5°C	ML	5.6max	ML	5.4max	ML	2.5°C	ML	3.0°C	ML		
11	2.5°C	ML	2.5°C	ML	3.0°C	ML	2.5°C	ML	2.0min	ML		
12	2.4min	ML	3.5°C	ML	3.5°C	ML	4.0°C	ML	4.9max	ML		
13	5.1max	ML	3.5°C	ML	3.5°C	ML	3.2min	ML	3.5°C	ML		
14	3.0°C	ML	2.5°C	ML	4.0°C	ML	5.2max	ML	3.0°C	ML		
15	2.5°C	ML	2.5°C	ML	3.0°C	ML	4.0°C	ML	2.5°C	ML		
16	2.0°C	ML	2.9min	ML	2.8min	ML	3.0°C	ML	3.0°C	ML		
17	3.5°C	ML	5.3max	ML	5.7max	ML	4.0°C	ML	2.5°C	ML		
18	3.0°C	ML	3.0°C	ML			4.0°C	ML	2.3min	ML		
19	2.8min	ML	4.0°C	ML	3.0°C	ML	4.0°C	PKS	5.9max	ML		
20	5.8max	ML	3.5°C	ML	3.5°C	ML	2.8min	ML	4.0°C	ML		
21	3.5°C	ML	3.5°C	ML	4.0°C	ML	5.0max	ML	3.5°C	ML		
22	4.0°C	ML	2.0°C	ML	2.0°C	ML	3.5°C	ML	3.0°C	ML		
23	3.5°C	ML	2.8min	ML	2.4min	ML	3.0°C	ML	3.0°C	ML		
24	4.0°C	ML	5.8max	ML	5.0max	ML	3.0°C	ML	2.5°C	ML		
25	3.0°C	ML	3.5°C	ML	3.0°C	ML	2.0°C	ML	2.8min	ML		
26	2.7min	ML	3.0°C	ML	2.5°C	ML	4.0°C	ML	5.5max	ML		
27	5.4max	ML	4.0°C	ML	4.0°C	ML			↓			
28	3.0°C	ML	3.5°C	ML	3.5°C	ML			4.0°C	ML		
29	4.0°C	ML			3.0°C	ML	5.0	PKS	2.5°C	ML		
30					2.7min	ML	5.7	PKS	5.0°C	ML		
31	3.5°C	ML			5.4max	ML			4.5°C	ML		
SUPERV. REVIEW												

ANALYTICAL BALANCE CALIBRATION LOG

Manufacturer	Mettler Toledo
Model#	AG204
Serial#	1115192488

Adjusting Weight	200g (Internal)
Working Range	0.1mg - 210g
Weight Set Serial#	01574117-001

Date	Time	100mg (99.8-100.2)	1.0000g (0.9990-1.0010)	100.0000g (99.9000-100.1000)	Initials	Comments
05/01/19	13:10	100.0	1.0003	100.0023	R.M	10.0002
05/02/19	12:00	100.1	1.0002	100.0020	R.M	10.0004
05/03/19	13:35	100.1	1.0002	100.0023	R.M	10.0003
05/06/19	12:35	100.1	1.0002	100.0030	R.M	10.0005
05/07/19	13:45	100.0	1.0001	100.0040	R.M	10.0005
05/08/19	11:11	100.0	1.0002	100.0033	R.M	10.0005
05/09/19	11:48	99.9	1.0002	100.0040	R.M	10.005
05/10/19	11:40	100.0	1.0001	100.0038	R.M	10.003
05/13/19	10:10	100.0	1.0002	100.0036	R.M	10.006
05/14/19	12:45	100.1	1.0001	100.0034	M.G.	10.0004
05/15/19	10:20	100.0	1.0000	100.0038	MG	10.0004
05/16/19	12:30	99.9	1.0001	100.0040	R.M	10.0006
05/20/19	13:10	100.0	1.0000	100.0044	MG	10.0004
05/21/19	11:45	100.0	1.0001	100.0036	MG	10.0004
05/22/19	9:40	99.9	1.0001	100.0038	MG	10.0005
05/23/19	9:45	100.0	1.0002	100.0042	R.M	10.0005
05/24/19	9:45	100.0	1.0000	100.0047	MG	10.0007
05/28/19	9:35	100.1	1.0000	100.0051	MG	10.0006
05/29/19	9:05	100.0	1.0001	100.0052	MG	10.0009
05/30/19	9:10	100.0	1.0003	100.0052	MG	10.0007

Rev. 2 - fixed criteria typo - KK

THERMOMETER TEMPERATURE RECORD

January - June

DEPT. Wet Chem. TEMPERATURE RANGE 103 TO 105

YEAR 2019 Thermometer Variance +1.0 Next Thermometer Calibration Date 1/8/2020

MONTH	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL	RECORD	INITIAL
DAY 1					105°C	NR						
2												
3												
4												
5												
6					105°C	NR						
7												
8									ICS	PD		
9												
10									ICS	DD		
11							ICS	DD				
12												
13												
14	105°C	NR			105°C	DD						
15	105°C	NR										
16												
17												
18												
19			105°C	NR								
20									ICS	DD		
21												
22			105°C	NR								
23												
24							ICS	DD				
25					105°C	NR	ICS	DD				
26			105°C	NR								
27			105°C	NR								
28	105°C	NR										
29									ICS	DD		
30												
31												
SUPERV. REVIEW												

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 04, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 College / 19-146
Pace Project No.: 50225466

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants
Mr. Dan Rust, BCA Environmental Consultants, LLC

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 216 College / 19-146
Pace Project No.: 50225466

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SAMPLE SUMMARY

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50225466001	**SP-1 (3-5)**	Solid	05/16/19 12:40	05/17/19 18:01
50225466002	**SP-1 (5-7)**	Solid	05/16/19 12:45	05/17/19 18:01
50225466003	**SP-2 (0-2)**	Solid	05/16/19 10:00	05/17/19 18:01
50225466004	**SP-2 (2-4)**	Solid	05/16/19 10:05	05/17/19 18:01
50225466005	**SP-3 (0-2)**	Solid	05/16/19 10:25	05/17/19 18:01
50225466006	**SP-3 (2-4)**	Solid	05/16/19 10:30	05/17/19 18:01
50225466007	**SP-4 (0-2)**	Solid	05/16/19 12:15	05/17/19 18:01
50225466008	**SP-4 (2-4)**	Solid	05/16/19 12:20	05/17/19 18:01
50225466009	**SP-4 (6-8)**	Solid	05/16/19 12:00	05/17/19 18:01
50225466010	**SP-4 (8-9)**	Solid	05/16/19 12:05	05/17/19 18:01
50225466011	**SP-4 (9-10.5)**	Solid	05/16/19 12:10	05/17/19 18:01
50225466012	**SP-5 (0-2)**	Solid	05/16/19 11:40	05/17/19 18:01
50225466013	**SP-5 (0-2) DUP**	Solid	05/16/19 11:40	05/17/19 18:01
50225466014	**SP-5 (2-4)**	Solid	05/16/19 11:45	05/17/19 18:01
50225466015	**SP-5 (9-11)**	Solid	05/16/19 11:30	05/17/19 18:01
50225466016	**SP-5 (11-13)**	Solid	05/16/19 11:35	05/17/19 18:01
50225466017	**SP-5 (11-13) DUP**	Solid	05/16/19 11:35	05/17/19 18:01
50225466018	**SP-5 (6-8)**	Solid	05/16/19 11:37	05/17/19 18:01

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50225466001	**SP-1 (3-5)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466002	**SP-1 (5-7)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466003	**SP-2 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466004	**SP-2 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466005	**SP-3 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466006	**SP-3 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466007	**SP-4 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466008	**SP-4 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466009	**SP-4 (6-8)**	EPA 8270 by SIM	JCM	20	PASI-I

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466010	**SP-4 (8-9)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466011	**SP-4 (9-10.5)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466012	**SP-5 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466013	**SP-5 (0-2) DUP**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466014	**SP-5 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466015	**SP-5 (9-11)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466016	**SP-5 (11-13)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466017	**SP-5 (11-13) DUP**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466018	**SP-5 (6-8)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466001	**SP-1 (3-5)**					
EPA 6010	Arsenic	12.0	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Barium	72.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Beryllium	0.91	mg/kg	0.53	05/28/19 16:50	
EPA 6010	Cadmium	0.18J	mg/kg	0.53	05/28/19 16:50	
EPA 6010	Chromium	13.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Copper	17.8	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Lead	16.3	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Nickel	17.0	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Selenium	0.64J	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Thallium	1.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Zinc	37.0	mg/kg	1.1	05/28/19 16:50	
EPA 7471	Mercury	0.11J	mg/kg	0.22	05/30/19 20:16	
EPA 8270 by SIM	Acenaphthene	301	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Acenaphthylene	86.8	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Anthracene	761	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(a)anthracene	1980	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(a)pyrene	1400	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	1550	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(g,h,i)perylene	810	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	1240	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Chrysene	2270	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Dibenz(a,h)anthracene	428	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Fluoranthene	4460	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Fluorene	270	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	814	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	1-Methylnaphthalene	249	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	2-Methylnaphthalene	282	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Naphthalene	234	ug/kg	29.8	06/02/19 15:59	ED
EPA 8270 by SIM	Phenanthrene	3250	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Pyrene	4200	ug/kg	29.8	06/02/19 15:59	
EPA 8270	Dibenzofuran	494	ug/kg	394	06/02/19 15:20	
SM 2540G	Percent Moisture	16.2	%	0.10	05/28/19 11:52	
50225466002	**SP-1 (5-7)**					
EPA 6010	Arsenic	8.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Barium	49.1	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Beryllium	1.4	mg/kg	0.57	05/28/19 16:53	
EPA 6010	Cadmium	0.13J	mg/kg	0.57	05/28/19 16:53	
EPA 6010	Chromium	8.7	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Copper	37.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Lead	43.9	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Nickel	19.1	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Selenium	1.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Thallium	0.95J	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Zinc	49.9	mg/kg	1.1	05/28/19 16:53	
EPA 7471	Mercury	0.13J	mg/kg	0.24	05/30/19 20:18	
EPA 8270 by SIM	Acenaphthene	149	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Acenaphthylene	33.3	ug/kg	30.9	06/02/19 16:15	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466002	**SP-1 (5-7)**					
EPA 8270 by SIM	Anthracene	300	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(a)anthracene	268	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(a)pyrene	106	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	108	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	62.6	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	82.8	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Chrysene	322	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Dibenz(a,h)anthracene	17.9J	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Fluoranthene	486	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Fluorene	207	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	34.1	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	1-Methylnaphthalene	562	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	2-Methylnaphthalene	565	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Naphthalene	315	ug/kg	30.9	06/02/19 16:15	ED
EPA 8270 by SIM	Phenanthrene	1230	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Pyrene	515	ug/kg	30.9	06/02/19 16:15	
EPA 8270	Dibenzofuran	238J	ug/kg	408	06/02/19 15:36	
SM 2540G	Percent Moisture	19.5	%	0.10	05/28/19 11:52	
50225466003	**SP-2 (0-2)**					
EPA 6010	Arsenic	0.97J	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Barium	42.2	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Cadmium	0.37J	mg/kg	0.50	05/28/19 16:55	
EPA 6010	Chromium	7.1	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Copper	2.2	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Lead	2.1	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Nickel	8.6	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Silver	0.68	mg/kg	0.50	05/28/19 16:55	
EPA 6010	Zinc	22.0	mg/kg	1.0	05/28/19 16:55	
EPA 8270 by SIM	Pyrene	2.9J	ug/kg	5.1	06/04/19 13:55	
SM 2540G	Percent Moisture	3.4	%	0.10	05/28/19 11:52	
50225466004	**SP-2 (2-4)**					
EPA 6010	Arsenic	14.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Barium	75.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Beryllium	0.46J	mg/kg	0.51	05/28/19 16:57	
EPA 6010	Cadmium	0.26J	mg/kg	0.51	05/28/19 16:57	
EPA 6010	Chromium	15.8	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Copper	9.1	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Lead	14.7	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Nickel	11.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Thallium	0.86J	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Zinc	33.1	mg/kg	1.0	05/28/19 16:57	
EPA 8270 by SIM	Acenaphthene	61.2	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Acenaphthylene	134	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Anthracene	155	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(a)anthracene	294	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(a)pyrene	349	ug/kg	27.0	06/02/19 16:48	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466004	**SP-2 (2-4)**					
EPA 8270 by SIM	Benzo(b)fluoranthene	255	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	243	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	215	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Chrysene	334	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	106	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Fluoranthene	385	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	221	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	1-Methylnaphthalene	22.6J	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	2-Methylnaphthalene	23.6J	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Naphthalene	36.3	ug/kg	27.0	06/02/19 16:48	ED
EPA 8270 by SIM	Phenanthrene	97.4	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Pyrene	983	ug/kg	27.0	06/02/19 16:48	
SM 2540G	Percent Moisture	8.5	%	0.10	05/28/19 11:52	
50225466005	**SP-3 (0-2)**					
EPA 6010	Arsenic	6.3	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Barium	301	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Beryllium	0.51J	mg/kg	0.53	05/28/19 16:59	
EPA 6010	Cadmium	0.34J	mg/kg	0.53	05/28/19 16:59	
EPA 6010	Chromium	13.3	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Copper	17.6	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Lead	96.5	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Nickel	13.2	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Thallium	0.83J	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Zinc	97.4	mg/kg	1.1	05/28/19 16:59	
EPA 7471	Mercury	0.59	mg/kg	0.22	05/30/19 20:29	
EPA 8270 by SIM	Acenaphthylene	23.9J	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Anthracene	59.3	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(a)anthracene	380	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(a)pyrene	400	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	441	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	406	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	346	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Chrysene	488	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Dibenz(a,h)anthracene	107	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Fluoranthene	724	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	337	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Phenanthrene	196	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Pyrene	786	ug/kg	59.1	06/02/19 17:04	M6
SM 2540G	Percent Moisture	16.2	%	0.10	05/28/19 11:53	
50225466006	**SP-3 (2-4)**					
EPA 6010	Arsenic	13.6	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Barium	72.8	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Beryllium	0.77	mg/kg	0.59	05/28/19 17:10	
EPA 6010	Cadmium	0.13J	mg/kg	0.59	05/28/19 17:10	
EPA 6010	Chromium	19.2	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Copper	22.1	mg/kg	1.2	05/28/19 17:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466006	**SP-3 (2-4)**					
EPA 6010	Lead	20.0	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Nickel	15.8	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Thallium	1.1J	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Zinc	49.8	mg/kg	1.2	05/28/19 17:10	
EPA 8270 by SIM	Naphthalene	4.1J	ug/kg	6.4	06/02/19 17:53	
EPA 8270 by SIM	Phenanthrene	2.7J	ug/kg	6.4	06/02/19 17:53	
SM 2540G	Percent Moisture	22.2	%	0.10	05/28/19 12:39	
50225466007	**SP-4 (0-2)**					
EPA 6010	Arsenic	7.7	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Barium	187	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Beryllium	0.60	mg/kg	0.55	05/28/19 17:17	
EPA 6010	Cadmium	0.63	mg/kg	0.55	05/28/19 17:17	
EPA 6010	Chromium	17.3	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Copper	16.3	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Lead	44.7	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Nickel	12.8	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Selenium	0.50J	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Thallium	0.72J	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Zinc	111	mg/kg	1.1	05/28/19 17:17	
EPA 7471	Mercury	0.15J	mg/kg	0.25	05/30/19 20:37	
SM 2540G	Percent Moisture	18.5	%	0.10	05/28/19 12:39	
50225466008	**SP-4 (2-4)**					
EPA 6010	Arsenic	18.5	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Barium	98.4	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Beryllium	0.91	mg/kg	0.59	05/28/19 17:19	
EPA 6010	Cadmium	0.18J	mg/kg	0.59	05/28/19 17:19	
EPA 6010	Chromium	22.5	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Copper	26.4	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Lead	15.1	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Nickel	15.9	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Thallium	0.84J	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Zinc	57.4	mg/kg	1.2	05/28/19 17:19	
SM 2540G	Percent Moisture	21.9	%	0.10	05/28/19 12:40	
50225466009	**SP-4 (6-8)**					
EPA 8270 by SIM	Acenaphthene	4.4J	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Anthracene	6.6	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Benzo(a)anthracene	8.3	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Chrysene	14.6	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Fluoranthene	11.5	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Fluorene	7.4	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	1-Methylnaphthalene	672	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	2-Methylnaphthalene	1390	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Naphthalene	221	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Phenanthrene	22.2	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Pyrene	14.8	ug/kg	6.2	06/02/19 18:10	
SM 2540G	Percent Moisture	20.7	%	0.10	05/28/19 12:40	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466010	**SP-4 (8-9)**					
EPA 8270 by SIM	Benzo(a)anthracene	2.7J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Chrysene	4.3J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Fluoranthene	4.1J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Fluorene	2.4J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	1-Methylnaphthalene	195	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	2-Methylnaphthalene	398	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Naphthalene	121	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Phenanthrene	7.4	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Pyrene	5.0J	ug/kg	6.2	06/02/19 18:26	
SM 2540G	Percent Moisture	19.3	%	0.10	05/28/19 12:40	
50225466011	**SP-4 (9-10.5)**					
EPA 8270 by SIM	Anthracene	3.4J	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Benzo(a)anthracene	6.5	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Chrysene	11.9	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Fluoranthene	9.6	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Fluorene	5.8J	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	1-Methylnaphthalene	314	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	2-Methylnaphthalene	592	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Naphthalene	200	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Phenanthrene	17.8	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Pyrene	11.9	ug/kg	6.2	06/02/19 18:43	
SM 2540G	Percent Moisture	20.3	%	0.10	05/28/19 12:40	
50225466012	**SP-5 (0-2)**					
EPA 6010	Antimony	0.23J	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Arsenic	6.1	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Barium	147	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Beryllium	0.54	mg/kg	0.48	05/28/19 17:21	
EPA 6010	Cadmium	0.20J	mg/kg	0.48	05/28/19 17:21	
EPA 6010	Chromium	14.9	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Copper	12.1	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Lead	107	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Nickel	9.3	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Thallium	0.59J	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Zinc	57.5	mg/kg	0.95	05/28/19 17:21	
EPA 7471	Mercury	0.85	mg/kg	0.21	05/30/19 20:42	
SM 2540G	Percent Moisture	12.3	%	0.10	05/28/19 12:41	
50225466013	**SP-5 (0-2) DUP**					
EPA 6010	Arsenic	7.5	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Barium	136	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Beryllium	0.66	mg/kg	0.49	05/28/19 17:23	
EPA 6010	Cadmium	0.14J	mg/kg	0.49	05/28/19 17:23	
EPA 6010	Chromium	13.9	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Copper	116	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Lead	95.3	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Nickel	10.5	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Thallium	0.60J	mg/kg	0.98	05/28/19 17:23	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466013	**SP-5 (0-2) DUP**					
EPA 6010	Zinc	74.1	mg/kg	0.98	05/28/19 17:23	
EPA 7471	Mercury	1.0	mg/kg	0.21	05/30/19 20:44	
SM 2540G	Percent Moisture	12.1	%	0.10	05/28/19 12:41	
50225466014	**SP-5 (2-4)**					
EPA 6010	Arsenic	7.7	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Barium	91.6	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Beryllium	0.67	mg/kg	0.57	05/28/19 17:25	
EPA 6010	Cadmium	0.099J	mg/kg	0.57	05/28/19 17:25	
EPA 6010	Chromium	15.1	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Copper	11.8	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Lead	17.8	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Nickel	11.4	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Thallium	0.54J	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Zinc	49.4	mg/kg	1.1	05/28/19 17:25	
EPA 7471	Mercury	0.42	mg/kg	0.24	05/30/19 20:46	
SM 2540G	Percent Moisture	17.8	%	0.10	05/28/19 12:41	
50225466015	**SP-5 (9-11)**					
EPA 8270 by SIM	Acenaphthene	6.3J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Anthracene	5.9J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(a)anthracene	9.6	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(a)pyrene	2.9J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	4.0J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	3.2J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Chrysene	13.9	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Fluoranthene	17.2	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Fluorene	11.2	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	1-Methylnaphthalene	395	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	2-Methylnaphthalene	469	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Phenanthrene	29.1	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Pyrene	20.7	ug/kg	6.6	06/02/19 18:59	
SM 2540G	Percent Moisture	24.8	%	0.10	05/28/19 12:41	
50225466016	**SP-5 (11-13)**					
EPA 8270 by SIM	Acenaphthene	37.6	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Acenaphthylene	11.0	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Anthracene	41.0	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(a)anthracene	22.2	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(a)pyrene	6.3J	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(b)fluoranthene	8.1	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(k)fluoranthene	6.6J	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Chrysene	22.6	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Fluoranthene	134	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Fluorene	89.4	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	1-Methylnaphthalene	27.4	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	2-Methylnaphthalene	38.9	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Naphthalene	144	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Phenanthrene	179	ug/kg	7.3	06/02/19 19:16	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466016	**SP-5 (11-13)**					
EPA 8270 by SIM	Pyrene	110	ug/kg	7.3	06/02/19 19:16	
SM 2540G	Percent Moisture	32.6	%	0.10	05/28/19 12:42	
50225466017	**SP-5 (11-13) DUP**					
EPA 8270 by SIM	1-Methylnaphthalene	19.0	ug/kg	6.5	06/02/19 19:32	
EPA 8270 by SIM	2-Methylnaphthalene	21.3	ug/kg	6.5	06/02/19 19:32	
EPA 8270 by SIM	Naphthalene	14.8	ug/kg	6.5	06/02/19 19:32	
SM 2540G	Percent Moisture	23.7	%	0.10	05/28/19 12:42	
50225466018	**SP-5 (6-8)**					
EPA 6010	Arsenic	6.6	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Barium	118	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Beryllium	1.1	mg/kg	0.56	05/28/19 17:28	
EPA 6010	Cadmium	0.16J	mg/kg	0.56	05/28/19 17:28	
EPA 6010	Chromium	32.3	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Copper	13.5	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Lead	14.0	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Nickel	15.0	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Thallium	0.50J	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Zinc	57.3	mg/kg	1.1	05/28/19 17:28	
SM 2540G	Percent Moisture	19.0	%	0.10	05/28/19 12:42	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.124 g Final Volume/Weight: 50 mL								
Antimony	**<0.25**	mg/kg	1.1	0.25	1	05/28/19 07:10	05/28/19 16:50	7440-36-0	
Arsenic	**12.0**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 16:50	7440-38-2	
Barium	**72.6**	mg/kg	1.1	0.032	1	05/28/19 07:10	05/28/19 16:50	7440-39-3	
Beryllium	**0.91**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:50	7440-41-7	
Cadmium	**0.18J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:50	7440-43-9	
Chromium	**13.6**	mg/kg	1.1	0.31	1	05/28/19 07:10	05/28/19 16:50	7440-47-3	
Copper	**17.8**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:50	7440-50-8	
Lead	**16.3**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:50	7439-92-1	
Nickel	**17.0**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:50	7440-02-0	
Selenium	**0.64J**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 16:50	7782-49-2	
Silver	**<0.30**	mg/kg	0.53	0.30	1	05/28/19 07:10	05/28/19 16:50	7440-22-4	
Thallium	**1.6**	mg/kg	1.1	0.25	1	05/28/19 07:10	05/28/19 16:50	7440-28-0	
Zinc	**37.0**	mg/kg	1.1	0.37	1	05/28/19 07:10	05/28/19 16:50	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.319 g Final Volume/Weight: 50 mL								
Mercury	**0.11J**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:16	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Acenaphthene	**301**	ug/kg	29.8	7.5	5	05/29/19 09:25	06/02/19 15:59	83-32-9	
Acenaphthylene	**86.8**	ug/kg	29.8	8.9	5	05/29/19 09:25	06/02/19 15:59	208-96-8	
Anthracene	**761**	ug/kg	29.8	8.5	5	05/29/19 09:25	06/02/19 15:59	120-12-7	
Benzo(a)anthracene	**1980**	ug/kg	29.8	8.9	5	05/29/19 09:25	06/02/19 15:59	56-55-3	
Benzo(a)pyrene	**1400**	ug/kg	29.8	10.7	5	05/29/19 09:25	06/02/19 15:59	50-32-8	
Benzo(b)fluoranthene	**1550**	ug/kg	29.8	12.0	5	05/29/19 09:25	06/02/19 15:59	205-99-2	
Benzo(g,h,i)perylene	**810**	ug/kg	29.8	12.8	5	05/29/19 09:25	06/02/19 15:59	191-24-2	
Benzo(k)fluoranthene	**1240**	ug/kg	29.8	11.4	5	05/29/19 09:25	06/02/19 15:59	207-08-9	
Chrysene	**2270**	ug/kg	29.8	10.2	5	05/29/19 09:25	06/02/19 15:59	218-01-9	
Dibenz(a,h)anthracene	**428**	ug/kg	29.8	12.4	5	05/29/19 09:25	06/02/19 15:59	53-70-3	
Fluoranthene	**4460**	ug/kg	29.8	15.5	5	05/29/19 09:25	06/02/19 15:59	206-44-0	
Fluorene	**270**	ug/kg	29.8	7.5	5	05/29/19 09:25	06/02/19 15:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**814**	ug/kg	29.8	11.5	5	05/29/19 09:25	06/02/19 15:59	193-39-5	
1-Methylnaphthalene	**249**	ug/kg	29.8	6.1	5	05/29/19 09:25	06/02/19 15:59	90-12-0	
2-Methylnaphthalene	**282**	ug/kg	29.8	6.3	5	05/29/19 09:25	06/02/19 15:59	91-57-6	
Naphthalene	**234**	ug/kg	29.8	5.9	5	05/29/19 09:25	06/02/19 15:59	91-20-3	ED
Phenanthrene	**3250**	ug/kg	29.8	11.3	5	05/29/19 09:25	06/02/19 15:59	85-01-8	
Pyrene	**4200**	ug/kg	29.8	11.9	5	05/29/19 09:25	06/02/19 15:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	36	%.	23-107		5	05/29/19 09:25	06/02/19 15:59	321-60-8	
p-Terphenyl-d14 (S)	49	%.	16-117		5	05/29/19 09:25	06/02/19 15:59	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	100-51-6	
4-Bromophenylphenyl ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	101-55-3	
Butylbenzylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	85-68-7	
4-Chloro-3-methylphenol	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	59-50-7	
4-Chloroaniline	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	106-47-8	
bis(2-Chloroethoxy)methane	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	111-91-1	
bis(2-Chloroethyl) ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	111-44-4	
bis(2chloro1methylethyl) ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	108-60-1	
2-Chloronaphthalene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	91-58-7	
2-Chlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-57-8	
4-Chlorophenylphenyl ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	7005-72-3	
Dibenzofuran	**494**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	132-64-9	
3,3'-Dichlorobenzidine	**<394**	ug/kg	788	394	1	05/29/19 09:29	06/02/19 15:20	91-94-1	
2,4-Dichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	120-83-2	
Diethylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	84-66-2	
2,4-Dimethylphenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	105-67-9	
Dimethylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	131-11-3	
Di-n-butylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	84-74-2	
4,6-Dinitro-2-methylphenol	**<394**	ug/kg	788	394	1	05/29/19 09:29	06/02/19 15:20	534-52-1	
2,4-Dinitrophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	51-28-5	
2,4-Dinitrotoluene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	121-14-2	
2,6-Dinitrotoluene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	606-20-2	
Di-n-octylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	117-84-0	
bis(2-Ethylhexyl)phthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	117-81-7	
Hexachloro-1,3-butadiene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	87-68-3	
Hexachlorobenzene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	118-74-1	
Hexachlorocyclopentadiene	**<394**	ug/kg	394	394	1	05/29/19 09:29	06/02/19 15:20	77-47-4	
Hexachloroethane	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	67-72-1	
Isophorone	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	78-59-1	
2-Methylphenol(o-Cresol)	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20		
2-Nitroaniline	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-74-4	
3-Nitroaniline	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	99-09-2	
4-Nitroaniline	**<198**	ug/kg	394	198	1	05/29/19 09:29	06/02/19 15:20	100-01-6	
Nitrobenzene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	98-95-3	
2-Nitrophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-75-5	
4-Nitrophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	100-02-7	
N-Nitroso-di-n-propylamine	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	621-64-7	
N-Nitrosodiphenylamine	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	86-30-6	
Pentachlorophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	87-86-5	
Phenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	108-95-2	
2,4,5-Trichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-95-4	
2,4,6-Trichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-06-2	

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	90	%.	18-98		1	05/29/19 09:29	06/02/19 15:20	4165-60-0	
Phenol-d5 (S)	85	%.	18-108		1	05/29/19 09:29	06/02/19 15:20	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 15:20	367-12-4	
2,4,6-Tribromophenol (S)	57	%.	10-114		1	05/29/19 09:29	06/02/19 15:20	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**16.2**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.086 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 16:53	7440-36-0	
Arsenic	**8.2**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:53	7440-38-2	
Barium	**49.1**	mg/kg	1.1	0.034	1	05/28/19 07:10	05/28/19 16:53	7440-39-3	
Beryllium	**1.4**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 16:53	7440-41-7	
Cadmium	**0.13J**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 16:53	7440-43-9	
Chromium	**8.7**	mg/kg	1.1	0.33	1	05/28/19 07:10	05/28/19 16:53	7440-47-3	
Copper	**37.2**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 16:53	7440-50-8	
Lead	**43.9**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 16:53	7439-92-1	
Nickel	**19.1**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 16:53	7440-02-0	
Selenium	**1.2**	mg/kg	1.1	0.42	1	05/28/19 07:10	05/28/19 16:53	7782-49-2	
Silver	**<0.32**	mg/kg	0.57	0.32	1	05/28/19 07:10	05/28/19 16:53	7440-22-4	
Thallium	**0.95J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 16:53	7440-28-0	
Zinc	**49.9**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 16:53	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.312 g Final Volume/Weight: 50 mL								
Mercury	**0.13J**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:18	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Acenaphthene	**149**	ug/kg	30.9	7.8	5	05/29/19 09:25	06/02/19 16:15	83-32-9	
Acenaphthylene	**33.3**	ug/kg	30.9	9.2	5	05/29/19 09:25	06/02/19 16:15	208-96-8	
Anthracene	**300**	ug/kg	30.9	8.8	5	05/29/19 09:25	06/02/19 16:15	120-12-7	
Benzo(a)anthracene	**268**	ug/kg	30.9	9.2	5	05/29/19 09:25	06/02/19 16:15	56-55-3	
Benzo(a)pyrene	**106**	ug/kg	30.9	11.1	5	05/29/19 09:25	06/02/19 16:15	50-32-8	
Benzo(b)fluoranthene	**108**	ug/kg	30.9	12.5	5	05/29/19 09:25	06/02/19 16:15	205-99-2	
Benzo(g,h,i)perylene	**62.6**	ug/kg	30.9	13.3	5	05/29/19 09:25	06/02/19 16:15	191-24-2	
Benzo(k)fluoranthene	**82.8**	ug/kg	30.9	11.8	5	05/29/19 09:25	06/02/19 16:15	207-08-9	
Chrysene	**322**	ug/kg	30.9	10.6	5	05/29/19 09:25	06/02/19 16:15	218-01-9	
Dibenz(a,h)anthracene	**17.9J**	ug/kg	30.9	12.9	5	05/29/19 09:25	06/02/19 16:15	53-70-3	
Fluoranthene	**486**	ug/kg	30.9	16.1	5	05/29/19 09:25	06/02/19 16:15	206-44-0	
Fluorene	**207**	ug/kg	30.9	7.8	5	05/29/19 09:25	06/02/19 16:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**34.1**	ug/kg	30.9	12.0	5	05/29/19 09:25	06/02/19 16:15	193-39-5	
1-Methylnaphthalene	**562**	ug/kg	30.9	6.3	5	05/29/19 09:25	06/02/19 16:15	90-12-0	
2-Methylnaphthalene	**565**	ug/kg	30.9	6.5	5	05/29/19 09:25	06/02/19 16:15	91-57-6	
Naphthalene	**315**	ug/kg	30.9	6.2	5	05/29/19 09:25	06/02/19 16:15	91-20-3	ED
Phenanthrene	**1230**	ug/kg	30.9	11.7	5	05/29/19 09:25	06/02/19 16:15	85-01-8	
Pyrene	**515**	ug/kg	30.9	12.4	5	05/29/19 09:25	06/02/19 16:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%.	23-107		5	05/29/19 09:25	06/02/19 16:15	321-60-8	
p-Terphenyl-d14 (S)	60	%.	16-117		5	05/29/19 09:25	06/02/19 16:15	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	59-50-7	
4-Chloroaniline	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	91-58-7	
2-Chlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	7005-72-3	
Dibenzofuran	**238J**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	132-64-9	
3,3'-Dichlorobenzidine	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 15:36	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	120-83-2	
Diethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	105-67-9	
Dimethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	84-74-2	
4,6-Dinitro-2-methylphenol	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 15:36	534-52-1	
2,4-Dinitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	51-28-5	
2,4-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	118-74-1	
Hexachlorocyclopentadiene	**<408**	ug/kg	408	408	1	05/29/19 09:29	06/02/19 15:36	77-47-4	
Hexachloroethane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	67-72-1	
Isophorone	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36		
2-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-74-4	
3-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	99-09-2	
4-Nitroaniline	**<205**	ug/kg	408	205	1	05/29/19 09:29	06/02/19 15:36	100-01-6	
Nitrobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	98-95-3	
2-Nitrophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-75-5	
4-Nitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	86-30-6	
Pentachlorophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	87-86-5	
Phenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	52	%.	18-98		1	05/29/19 09:29	06/02/19 15:36	4165-60-0	
Phenol-d5 (S)	57	%.	18-108		1	05/29/19 09:29	06/02/19 15:36	4165-62-2	
2-Fluorophenol (S)	50	%.	16-104		1	05/29/19 09:29	06/02/19 15:36	367-12-4	
2,4,6-Tribromophenol (S)	38	%.	10-114		1	05/29/19 09:29	06/02/19 15:36	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.5**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.031 g Final Volume/Weight: 50 mL								
Antimony	**<0.24**	mg/kg	1.0	0.24	1	05/28/19 07:10	05/28/19 16:55	7440-36-0	
Arsenic	**0.97J**	mg/kg	1.0	0.14	1	05/28/19 07:10	05/28/19 16:55	7440-38-2	
Barium	**42.2**	mg/kg	1.0	0.030	1	05/28/19 07:10	05/28/19 16:55	7440-39-3	
Beryllium	**<0.020**	mg/kg	0.50	0.020	1	05/28/19 07:10	05/28/19 16:55	7440-41-7	
Cadmium	**0.37J**	mg/kg	0.50	0.020	1	05/28/19 07:10	05/28/19 16:55	7440-43-9	
Chromium	**7.1**	mg/kg	1.0	0.29	1	05/28/19 07:10	05/28/19 16:55	7440-47-3	
Copper	**2.2**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:55	7440-50-8	
Lead	**2.1**	mg/kg	1.0	0.15	1	05/28/19 07:10	05/28/19 16:55	7439-92-1	
Nickel	**8.6**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:55	7440-02-0	
Selenium	**<0.37**	mg/kg	1.0	0.37	1	05/28/19 07:10	05/28/19 16:55	7782-49-2	
Silver	**0.68**	mg/kg	0.50	0.28	1	05/28/19 07:10	05/28/19 16:55	7440-22-4	
Thallium	**<0.24**	mg/kg	1.0	0.24	1	05/28/19 07:10	05/28/19 16:55	7440-28-0	
Zinc	**22.0**	mg/kg	1.0	0.35	1	05/28/19 07:10	05/28/19 16:55	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.288 g Final Volume/Weight: 50 mL								
Mercury	**<0.10**	mg/kg	0.22	0.10	1	05/30/19 12:54	05/30/19 20:20	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.3**	ug/kg	5.1	1.3	1	05/29/19 09:25	06/04/19 13:55	83-32-9	
Acenaphthylene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	208-96-8	
Anthracene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	120-12-7	
Benzo(a)anthracene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	56-55-3	
Benzo(a)pyrene	**<1.8**	ug/kg	5.1	1.8	1	05/29/19 09:25	06/04/19 13:55	50-32-8	
Benzo(b)fluoranthene	**<2.1**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	205-99-2	
Benzo(g,h,i)perylene	**<2.2**	ug/kg	5.1	2.2	1	05/29/19 09:25	06/04/19 13:55	191-24-2	
Benzo(k)fluoranthene	**<2.0**	ug/kg	5.1	2.0	1	05/29/19 09:25	06/04/19 13:55	207-08-9	
Chrysene	**<1.8**	ug/kg	5.1	1.8	1	05/29/19 09:25	06/04/19 13:55	218-01-9	
Dibenz(a,h)anthracene	**<2.1**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	53-70-3	
Fluoranthene	**<2.7**	ug/kg	5.1	2.7	1	05/29/19 09:25	06/04/19 13:55	206-44-0	
Fluorene	**<1.3**	ug/kg	5.1	1.3	1	05/29/19 09:25	06/04/19 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.0**	ug/kg	5.1	2.0	1	05/29/19 09:25	06/04/19 13:55	193-39-5	
1-Methylnaphthalene	**<1.1**	ug/kg	5.1	1.1	1	05/29/19 09:25	06/04/19 13:55	90-12-0	
2-Methylnaphthalene	**<1.1**	ug/kg	5.1	1.1	1	05/29/19 09:25	06/04/19 13:55	91-57-6	
Naphthalene	**<1.0**	ug/kg	5.1	1.0	1	05/29/19 09:25	06/04/19 13:55	91-20-3	
Phenanthrene	**<1.9**	ug/kg	5.1	1.9	1	05/29/19 09:25	06/04/19 13:55	85-01-8	
Pyrene	**2.9J**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	23-107		1	05/29/19 09:25	06/04/19 13:55	321-60-8	
p-Terphenyl-d14 (S)	96	%.	16-117		1	05/29/19 09:25	06/04/19 13:55	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	100-51-6	
4-Bromophenylphenyl ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	101-55-3	
Butylbenzylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	85-68-7	
4-Chloro-3-methylphenol	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	59-50-7	
4-Chloroaniline	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	106-47-8	
bis(2-Chloroethoxy)methane	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	111-91-1	
bis(2-Chloroethyl) ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	111-44-4	
bis(2chloro1methylethyl) ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	108-60-1	
2-Chloronaphthalene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	91-58-7	
2-Chlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-57-8	
4-Chlorophenylphenyl ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	7005-72-3	
Dibenzofuran	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	132-64-9	
3,3'-Dichlorobenzidine	**<339**	ug/kg	679	339	1	05/29/19 09:29	06/02/19 15:52	91-94-1	
2,4-Dichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	120-83-2	
Diethylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	84-66-2	
2,4-Dimethylphenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	105-67-9	
Dimethylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	131-11-3	
Di-n-butylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	84-74-2	
4,6-Dinitro-2-methylphenol	**<339**	ug/kg	679	339	1	05/29/19 09:29	06/02/19 15:52	534-52-1	
2,4-Dinitrophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	51-28-5	
2,4-Dinitrotoluene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	121-14-2	
2,6-Dinitrotoluene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	606-20-2	
Di-n-octylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	117-84-0	
bis(2-Ethylhexyl)phthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	117-81-7	
Hexachloro-1,3-butadiene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	87-68-3	
Hexachlorobenzene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	118-74-1	
Hexachlorocyclopentadiene	**<339**	ug/kg	339	339	1	05/29/19 09:29	06/02/19 15:52	77-47-4	
Hexachloroethane	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	67-72-1	
Isophorone	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	78-59-1	
2-Methylphenol(o-Cresol)	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52		
2-Nitroaniline	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-74-4	
3-Nitroaniline	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	99-09-2	
4-Nitroaniline	**<171**	ug/kg	339	171	1	05/29/19 09:29	06/02/19 15:52	100-01-6	
Nitrobenzene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	98-95-3	
2-Nitrophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-75-5	
4-Nitrophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	100-02-7	
N-Nitroso-di-n-propylamine	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	621-64-7	
N-Nitrosodiphenylamine	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	86-30-6	
Pentachlorophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	87-86-5	
Phenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	108-95-2	
2,4,5-Trichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-95-4	
2,4,6-Trichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-06-2	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	73	%.	18-98		1	05/29/19 09:29	06/02/19 15:52	4165-60-0	
Phenol-d5 (S)	78	%.	18-108		1	05/29/19 09:29	06/02/19 15:52	4165-62-2	
2-Fluorophenol (S)	69	%.	16-104		1	05/29/19 09:29	06/02/19 15:52	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	10-114		1	05/29/19 09:29	06/02/19 15:52	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**3.4**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.068 g Final Volume/Weight: 50 mL								
Antimony	**<0.25**	mg/kg	1.0	0.25	1	05/28/19 07:10	05/28/19 16:57	7440-36-0	
Arsenic	**14.2**	mg/kg	1.0	0.14	1	05/28/19 07:10	05/28/19 16:57	7440-38-2	
Barium	**75.2**	mg/kg	1.0	0.031	1	05/28/19 07:10	05/28/19 16:57	7440-39-3	
Beryllium	**0.46J**	mg/kg	0.51	0.020	1	05/28/19 07:10	05/28/19 16:57	7440-41-7	
Cadmium	**0.26J**	mg/kg	0.51	0.020	1	05/28/19 07:10	05/28/19 16:57	7440-43-9	
Chromium	**15.8**	mg/kg	1.0	0.30	1	05/28/19 07:10	05/28/19 16:57	7440-47-3	
Copper	**9.1**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:57	7440-50-8	
Lead	**14.7**	mg/kg	1.0	0.15	1	05/28/19 07:10	05/28/19 16:57	7439-92-1	
Nickel	**11.2**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:57	7440-02-0	
Selenium	**<0.38**	mg/kg	1.0	0.38	1	05/28/19 07:10	05/28/19 16:57	7782-49-2	
Silver	**<0.29**	mg/kg	0.51	0.29	1	05/28/19 07:10	05/28/19 16:57	7440-22-4	
Thallium	**0.86J**	mg/kg	1.0	0.25	1	05/28/19 07:10	05/28/19 16:57	7440-28-0	
Zinc	**33.1**	mg/kg	1.0	0.36	1	05/28/19 07:10	05/28/19 16:57	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.293 g Final Volume/Weight: 50 mL								
Mercury	**<0.11**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:22	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**61.2**	ug/kg	27.0	6.8	5	05/29/19 09:25	06/02/19 16:48	83-32-9	
Acenaphthylene	**134**	ug/kg	27.0	8.0	5	05/29/19 09:25	06/02/19 16:48	208-96-8	
Anthracene	**155**	ug/kg	27.0	7.7	5	05/29/19 09:25	06/02/19 16:48	120-12-7	
Benzo(a)anthracene	**294**	ug/kg	27.0	8.1	5	05/29/19 09:25	06/02/19 16:48	56-55-3	
Benzo(a)pyrene	**349**	ug/kg	27.0	9.7	5	05/29/19 09:25	06/02/19 16:48	50-32-8	
Benzo(b)fluoranthene	**255**	ug/kg	27.0	10.9	5	05/29/19 09:25	06/02/19 16:48	205-99-2	
Benzo(g,h,i)perylene	**243**	ug/kg	27.0	11.6	5	05/29/19 09:25	06/02/19 16:48	191-24-2	
Benzo(k)fluoranthene	**215**	ug/kg	27.0	10.3	5	05/29/19 09:25	06/02/19 16:48	207-08-9	
Chrysene	**334**	ug/kg	27.0	9.3	5	05/29/19 09:25	06/02/19 16:48	218-01-9	
Dibenz(a,h)anthracene	**106**	ug/kg	27.0	11.2	5	05/29/19 09:25	06/02/19 16:48	53-70-3	
Fluoranthene	**385**	ug/kg	27.0	14.1	5	05/29/19 09:25	06/02/19 16:48	206-44-0	
Fluorene	**<6.8**	ug/kg	27.0	6.8	5	05/29/19 09:25	06/02/19 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**221**	ug/kg	27.0	10.4	5	05/29/19 09:25	06/02/19 16:48	193-39-5	
1-Methylnaphthalene	**22.6J**	ug/kg	27.0	5.5	5	05/29/19 09:25	06/02/19 16:48	90-12-0	
2-Methylnaphthalene	**23.6J**	ug/kg	27.0	5.7	5	05/29/19 09:25	06/02/19 16:48	91-57-6	
Naphthalene	**36.3**	ug/kg	27.0	5.4	5	05/29/19 09:25	06/02/19 16:48	91-20-3	ED
Phenanthrene	**97.4**	ug/kg	27.0	10.2	5	05/29/19 09:25	06/02/19 16:48	85-01-8	
Pyrene	**983**	ug/kg	27.0	10.8	5	05/29/19 09:25	06/02/19 16:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	23-107		5	05/29/19 09:25	06/02/19 16:48	321-60-8	
p-Terphenyl-d14 (S)	77	%.	16-117		5	05/29/19 09:25	06/02/19 16:48	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	100-51-6	
4-Bromophenylphenyl ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	101-55-3	
Butylbenzylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	85-68-7	
4-Chloro-3-methylphenol	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	59-50-7	
4-Chloroaniline	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	106-47-8	
bis(2-Chloroethoxy)methane	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	111-91-1	
bis(2-Chloroethyl) ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	111-44-4	
bis(2chloro1methylethyl) ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	108-60-1	
2-Chloronaphthalene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	91-58-7	
2-Chlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-57-8	
4-Chlorophenylphenyl ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	7005-72-3	
Dibenzofuran	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	132-64-9	
3,3'-Dichlorobenzidine	**<357**	ug/kg	714	357	1	05/29/19 09:29	06/02/19 16:08	91-94-1	
2,4-Dichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	120-83-2	
Diethylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	84-66-2	
2,4-Dimethylphenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	105-67-9	
Dimethylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	131-11-3	
Di-n-butylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	84-74-2	
4,6-Dinitro-2-methylphenol	**<357**	ug/kg	714	357	1	05/29/19 09:29	06/02/19 16:08	534-52-1	
2,4-Dinitrophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	51-28-5	
2,4-Dinitrotoluene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	121-14-2	
2,6-Dinitrotoluene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	606-20-2	
Di-n-octylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	117-84-0	
bis(2-Ethylhexyl)phthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	117-81-7	
Hexachloro-1,3-butadiene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	87-68-3	
Hexachlorobenzene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	118-74-1	
Hexachlorocyclopentadiene	**<357**	ug/kg	357	357	1	05/29/19 09:29	06/02/19 16:08	77-47-4	
Hexachloroethane	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	67-72-1	
Isophorone	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	78-59-1	
2-Methylphenol(o-Cresol)	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08		
2-Nitroaniline	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-74-4	
3-Nitroaniline	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	99-09-2	
4-Nitroaniline	**<180**	ug/kg	357	180	1	05/29/19 09:29	06/02/19 16:08	100-01-6	
Nitrobenzene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	98-95-3	
2-Nitrophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-75-5	
4-Nitrophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	100-02-7	
N-Nitroso-di-n-propylamine	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	621-64-7	
N-Nitrosodiphenylamine	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	86-30-6	
Pentachlorophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	87-86-5	
Phenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	108-95-2	
2,4,5-Trichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-95-4	
2,4,6-Trichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-06-2	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	71	%.	18-98		1	05/29/19 09:29	06/02/19 16:08	4165-60-0	
Phenol-d5 (S)	73	%.	18-108		1	05/29/19 09:29	06/02/19 16:08	4165-62-2	
2-Fluorophenol (S)	49	%.	16-104		1	05/29/19 09:29	06/02/19 16:08	367-12-4	
2,4,6-Tribromophenol (S)	25	%.	10-114		1	05/29/19 09:29	06/02/19 16:08	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**8.5**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.115 g Final Volume/Weight: 50 mL								
Antimony	**<0.26**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 16:59	7440-36-0	
Arsenic	**6.3**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 16:59	7440-38-2	
Barium	**301**	mg/kg	1.1	0.032	1	05/28/19 07:10	05/28/19 16:59	7440-39-3	
Beryllium	**0.51J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:59	7440-41-7	
Cadmium	**0.34J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:59	7440-43-9	
Chromium	**13.3**	mg/kg	1.1	0.31	1	05/28/19 07:10	05/28/19 16:59	7440-47-3	
Copper	**17.6**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:59	7440-50-8	
Lead	**96.5**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:59	7439-92-1	
Nickel	**13.2**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:59	7440-02-0	
Selenium	**<0.40**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 16:59	7782-49-2	
Silver	**<0.30**	mg/kg	0.53	0.30	1	05/28/19 07:10	05/28/19 16:59	7440-22-4	
Thallium	**0.83J**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 16:59	7440-28-0	
Zinc	**97.4**	mg/kg	1.1	0.37	1	05/28/19 07:10	05/28/19 16:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.323 g Final Volume/Weight: 50 mL								
Mercury	**0.59**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:29	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**<14.8**	ug/kg	59.1	14.8	10	05/29/19 09:25	06/02/19 17:04	83-32-9	
Acenaphthylene	**23.9J**	ug/kg	59.1	17.5	10	05/29/19 09:25	06/02/19 17:04	208-96-8	
Anthracene	**59.3**	ug/kg	59.1	16.9	10	05/29/19 09:25	06/02/19 17:04	120-12-7	
Benzo(a)anthracene	**380**	ug/kg	59.1	17.6	10	05/29/19 09:25	06/02/19 17:04	56-55-3	
Benzo(a)pyrene	**400**	ug/kg	59.1	21.1	10	05/29/19 09:25	06/02/19 17:04	50-32-8	
Benzo(b)fluoranthene	**441**	ug/kg	59.1	23.8	10	05/29/19 09:25	06/02/19 17:04	205-99-2	
Benzo(g,h,i)perylene	**406**	ug/kg	59.1	25.3	10	05/29/19 09:25	06/02/19 17:04	191-24-2	
Benzo(k)fluoranthene	**346**	ug/kg	59.1	22.5	10	05/29/19 09:25	06/02/19 17:04	207-08-9	
Chrysene	**488**	ug/kg	59.1	20.2	10	05/29/19 09:25	06/02/19 17:04	218-01-9	
Dibenz(a,h)anthracene	**107**	ug/kg	59.1	24.5	10	05/29/19 09:25	06/02/19 17:04	53-70-3	
Fluoranthene	**724**	ug/kg	59.1	30.7	10	05/29/19 09:25	06/02/19 17:04	206-44-0	
Fluorene	**<14.8**	ug/kg	59.1	14.8	10	05/29/19 09:25	06/02/19 17:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**337**	ug/kg	59.1	22.8	10	05/29/19 09:25	06/02/19 17:04	193-39-5	
1-Methylnaphthalene	**<12.1**	ug/kg	59.1	12.1	10	05/29/19 09:25	06/02/19 17:04	90-12-0	
2-Methylnaphthalene	**<12.4**	ug/kg	59.1	12.4	10	05/29/19 09:25	06/02/19 17:04	91-57-6	
Naphthalene	**<11.8**	ug/kg	59.1	11.8	10	05/29/19 09:25	06/02/19 17:04	91-20-3	ED
Phenanthrene	**196**	ug/kg	59.1	22.3	10	05/29/19 09:25	06/02/19 17:04	85-01-8	
Pyrene	**786**	ug/kg	59.1	23.6	10	05/29/19 09:25	06/02/19 17:04	129-00-0	M6
Surrogates									
2-Fluorobiphenyl (S)	62	%.	23-107		10	05/29/19 09:25	06/02/19 17:04	321-60-8	
p-Terphenyl-d14 (S)	80	%.	16-117		10	05/29/19 09:25	06/02/19 17:04	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	100-51-6	
4-Bromophenylphenyl ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	101-55-3	
Butylbenzylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	85-68-7	
4-Chloro-3-methylphenol	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	59-50-7	
4-Chloroaniline	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	106-47-8	
bis(2-Chloroethoxy)methane	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	111-91-1	
bis(2-Chloroethyl) ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	111-44-4	
bis(2chloro1methylethyl) ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	108-60-1	
2-Chloronaphthalene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	91-58-7	
2-Chlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-57-8	
4-Chlorophenylphenyl ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	7005-72-3	
Dibenzofuran	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	132-64-9	
3,3'-Dichlorobenzidine	**<390**	ug/kg	780	390	1	05/29/19 09:29	06/02/19 16:24	91-94-1	
2,4-Dichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	120-83-2	
Diethylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	84-66-2	
2,4-Dimethylphenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	105-67-9	
Dimethylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	131-11-3	
Di-n-butylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	84-74-2	
4,6-Dinitro-2-methylphenol	**<390**	ug/kg	780	390	1	05/29/19 09:29	06/02/19 16:24	534-52-1	
2,4-Dinitrophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	51-28-5	
2,4-Dinitrotoluene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	121-14-2	
2,6-Dinitrotoluene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	606-20-2	
Di-n-octylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	117-84-0	
bis(2-Ethylhexyl)phthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	117-81-7	
Hexachloro-1,3-butadiene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	87-68-3	
Hexachlorobenzene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	118-74-1	
Hexachlorocyclopentadiene	**<390**	ug/kg	390	390	1	05/29/19 09:29	06/02/19 16:24	77-47-4	
Hexachloroethane	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	67-72-1	
Isophorone	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	78-59-1	
2-Methylphenol(o-Cresol)	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24		
2-Nitroaniline	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-74-4	
3-Nitroaniline	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	99-09-2	
4-Nitroaniline	**<196**	ug/kg	390	196	1	05/29/19 09:29	06/02/19 16:24	100-01-6	
Nitrobenzene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	98-95-3	
2-Nitrophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-75-5	
4-Nitrophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	100-02-7	
N-Nitroso-di-n-propylamine	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	621-64-7	
N-Nitrosodiphenylamine	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	86-30-6	
Pentachlorophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	87-86-5	
Phenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	108-95-2	
2,4,5-Trichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-95-4	
2,4,6-Trichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	72	%.	18-98		1	05/29/19 09:29	06/02/19 16:24	4165-60-0	
Phenol-d5 (S)	78	%.	18-108		1	05/29/19 09:29	06/02/19 16:24	4165-62-2	
2-Fluorophenol (S)	64	%.	16-104		1	05/29/19 09:29	06/02/19 16:24	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 16:24	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**16.2**	%	0.10	0.10	1		05/28/19 11:53		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.091 g Final Volume/Weight: 50 mL								
Antimony	**<0.28**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:10	7440-36-0	
Arsenic	**13.6**	mg/kg	1.2	0.17	1	05/28/19 07:10	05/28/19 17:10	7440-38-2	
Barium	**72.8**	mg/kg	1.2	0.035	1	05/28/19 07:10	05/28/19 17:10	7440-39-3	
Beryllium	**0.77**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:10	7440-41-7	
Cadmium	**0.13J**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:10	7440-43-9	
Chromium	**19.2**	mg/kg	1.2	0.34	1	05/28/19 07:10	05/28/19 17:10	7440-47-3	
Copper	**22.1**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:10	7440-50-8	
Lead	**20.0**	mg/kg	1.2	0.18	1	05/28/19 07:10	05/28/19 17:10	7439-92-1	
Nickel	**15.8**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:10	7440-02-0	
Selenium	**<0.44**	mg/kg	1.2	0.44	1	05/28/19 07:10	05/28/19 17:10	7782-49-2	
Silver	**<0.33**	mg/kg	0.59	0.33	1	05/28/19 07:10	05/28/19 17:10	7440-22-4	
Thallium	**1.1J**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:10	7440-28-0	
Zinc	**49.8**	mg/kg	1.2	0.41	1	05/28/19 07:10	05/28/19 17:10	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.324 g Final Volume/Weight: 50 mL								
Mercury	**<0.12**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:35	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.4	1.6	1	05/29/19 09:25	06/02/19 17:53	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.4	1.9	1	05/29/19 09:25	06/02/19 17:53	208-96-8	
Anthracene	**<1.8**	ug/kg	6.4	1.8	1	05/29/19 09:25	06/02/19 17:53	120-12-7	
Benzo(a)anthracene	**<1.9**	ug/kg	6.4	1.9	1	05/29/19 09:25	06/02/19 17:53	56-55-3	
Benzo(a)pyrene	**<2.3**	ug/kg	6.4	2.3	1	05/29/19 09:25	06/02/19 17:53	50-32-8	
Benzo(b)fluoranthene	**<2.6**	ug/kg	6.4	2.6	1	05/29/19 09:25	06/02/19 17:53	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.4	2.7	1	05/29/19 09:25	06/02/19 17:53	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.4	2.4	1	05/29/19 09:25	06/02/19 17:53	207-08-9	
Chrysene	**<2.2**	ug/kg	6.4	2.2	1	05/29/19 09:25	06/02/19 17:53	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.4	2.7	1	05/29/19 09:25	06/02/19 17:53	53-70-3	
Fluoranthene	**<3.3**	ug/kg	6.4	3.3	1	05/29/19 09:25	06/02/19 17:53	206-44-0	
Fluorene	**<1.6**	ug/kg	6.4	1.6	1	05/29/19 09:25	06/02/19 17:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	6.4	2.5	1	05/29/19 09:25	06/02/19 17:53	193-39-5	
1-Methylnaphthalene	**<1.3**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	90-12-0	
2-Methylnaphthalene	**<1.3**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	91-57-6	
Naphthalene	**4.1J**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	91-20-3	
Phenanthrene	**2.7J**	ug/kg	6.4	2.4	1	05/29/19 09:25	06/02/19 17:53	85-01-8	
Pyrene	**<2.6**	ug/kg	6.4	2.6	1	05/29/19 09:25	06/02/19 17:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%.	23-107		1	05/29/19 09:25	06/02/19 17:53	321-60-8	
p-Terphenyl-d14 (S)	82	%.	16-117		1	05/29/19 09:25	06/02/19 17:53	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	100-51-6	
4-Bromophenylphenyl ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	101-55-3	
Butylbenzylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	85-68-7	
4-Chloro-3-methylphenol	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	59-50-7	
4-Chloroaniline	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	106-47-8	
bis(2-Chloroethoxy)methane	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	111-91-1	
bis(2-Chloroethyl) ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	111-44-4	
bis(2chloro1methylethyl) ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	108-60-1	
2-Chloronaphthalene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	91-58-7	
2-Chlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-57-8	
4-Chlorophenylphenyl ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	7005-72-3	
Dibenzofuran	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	132-64-9	
3,3'-Dichlorobenzidine	**<422**	ug/kg	843	422	1	05/29/19 09:29	06/02/19 17:12	91-94-1	
2,4-Dichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	120-83-2	
Diethylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	84-66-2	
2,4-Dimethylphenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	105-67-9	
Dimethylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	131-11-3	
Di-n-butylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	84-74-2	
4,6-Dinitro-2-methylphenol	**<422**	ug/kg	843	422	1	05/29/19 09:29	06/02/19 17:12	534-52-1	
2,4-Dinitrophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	51-28-5	
2,4-Dinitrotoluene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	121-14-2	
2,6-Dinitrotoluene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	606-20-2	
Di-n-octylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	117-84-0	
bis(2-Ethylhexyl)phthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	117-81-7	
Hexachloro-1,3-butadiene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	87-68-3	
Hexachlorobenzene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	118-74-1	
Hexachlorocyclopentadiene	**<422**	ug/kg	422	422	1	05/29/19 09:29	06/02/19 17:12	77-47-4	
Hexachloroethane	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	67-72-1	
Isophorone	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	78-59-1	
2-Methylphenol(o-Cresol)	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12		
2-Nitroaniline	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-74-4	
3-Nitroaniline	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	99-09-2	
4-Nitroaniline	**<212**	ug/kg	422	212	1	05/29/19 09:29	06/02/19 17:12	100-01-6	
Nitrobenzene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	98-95-3	
2-Nitrophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-75-5	
4-Nitrophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	100-02-7	
N-Nitroso-di-n-propylamine	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	621-64-7	
N-Nitrosodiphenylamine	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	86-30-6	
Pentachlorophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	87-86-5	
Phenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	108-95-2	
2,4,5-Trichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-95-4	
2,4,6-Trichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	78	%.	18-98		1	05/29/19 09:29	06/02/19 17:12	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 17:12	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 17:12	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 17:12	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**22.2**	%	0.10	0.10	1		05/28/19 12:39		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (0-2) **Lab ID: 50225466007** Collected: 05/16/19 12:15 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.113 g Final Volume/Weight: 50 mL								
Antimony	**<0.26**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 17:17	7440-36-0	
Arsenic	**7.7**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 17:17	7440-38-2	
Barium	**187**	mg/kg	1.1	0.033	1	05/28/19 07:10	05/28/19 17:17	7440-39-3	
Beryllium	**0.60**	mg/kg	0.55	0.022	1	05/28/19 07:10	05/28/19 17:17	7440-41-7	
Cadmium	**0.63**	mg/kg	0.55	0.022	1	05/28/19 07:10	05/28/19 17:17	7440-43-9	
Chromium	**17.3**	mg/kg	1.1	0.32	1	05/28/19 07:10	05/28/19 17:17	7440-47-3	
Copper	**16.3**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:17	7440-50-8	
Lead	**44.7**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:17	7439-92-1	
Nickel	**12.8**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:17	7440-02-0	
Selenium	**0.50J**	mg/kg	1.1	0.41	1	05/28/19 07:10	05/28/19 17:17	7782-49-2	
Silver	**<0.31**	mg/kg	0.55	0.31	1	05/28/19 07:10	05/28/19 17:17	7440-22-4	
Thallium	**0.72J**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 17:17	7440-28-0	
Zinc	**111**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 17:17	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.297 g Final Volume/Weight: 50 mL								
Mercury	**0.15J**	mg/kg	0.25	0.12	1	05/30/19 12:54	05/30/19 20:37	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**18.5**	%	0.10	0.10	1		05/28/19 12:39		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (2-4) **Lab ID: 50225466008** Collected: 05/16/19 12:20 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.086 g Final Volume/Weight: 50 mL								
Antimony	**<0.28**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:19	7440-36-0	
Arsenic	**18.5**	mg/kg	1.2	0.17	1	05/28/19 07:10	05/28/19 17:19	7440-38-2	
Barium	**98.4**	mg/kg	1.2	0.035	1	05/28/19 07:10	05/28/19 17:19	7440-39-3	
Beryllium	**0.91**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:19	7440-41-7	
Cadmium	**0.18J**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:19	7440-43-9	
Chromium	**22.5**	mg/kg	1.2	0.34	1	05/28/19 07:10	05/28/19 17:19	7440-47-3	
Copper	**26.4**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:19	7440-50-8	
Lead	**15.1**	mg/kg	1.2	0.18	1	05/28/19 07:10	05/28/19 17:19	7439-92-1	
Nickel	**15.9**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:19	7440-02-0	
Selenium	**<0.44**	mg/kg	1.2	0.44	1	05/28/19 07:10	05/28/19 17:19	7782-49-2	
Silver	**<0.33**	mg/kg	0.59	0.33	1	05/28/19 07:10	05/28/19 17:19	7440-22-4	
Thallium	**0.84J**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:19	7440-28-0	
Zinc	**57.4**	mg/kg	1.2	0.41	1	05/28/19 07:10	05/28/19 17:19	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.303 g Final Volume/Weight: 50 mL								
Mercury	**<0.12**	mg/kg	0.25	0.12	1	05/30/19 12:54	05/30/19 20:39	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**21.9**	%	0.10	0.10	1		05/28/19 12:40		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (6-8) **Lab ID: 50225466009** Collected: 05/16/19 12:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**4.4J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:10	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.2	1.9	1	05/29/19 09:25	06/02/19 18:10	208-96-8	
Anthracene	**6.6**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:10	120-12-7	
Benzo(a)anthracene	**8.3**	ug/kg	6.2	1.9	1	05/29/19 09:25	06/02/19 18:10	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:10	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:10	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:10	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	207-08-9	
Chrysene	**14.6**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:10	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:10	53-70-3	
Fluoranthene	**11.5**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:10	206-44-0	
Fluorene	**7.4**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	193-39-5	
1-Methylnaphthalene	**672**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:10	90-12-0	
2-Methylnaphthalene	**1390**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:10	91-57-6	
Naphthalene	**221**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:10	91-20-3	
Phenanthrene	**22.2**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	85-01-8	
Pyrene	**14.8**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:10	321-60-8	
p-Terphenyl-d14 (S)	89	%.	16-117		1	05/29/19 09:25	06/02/19 18:10	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	100-51-6	
4-Bromophenylphenyl ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	101-55-3	
Butylbenzylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	85-68-7	
4-Chloro-3-methylphenol	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	59-50-7	
4-Chloroaniline	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	106-47-8	
bis(2-Chloroethoxy)methane	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	111-91-1	
bis(2-Chloroethyl) ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	111-44-4	
bis(2chloro1methylethyl) ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	108-60-1	
2-Chloronaphthalene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	91-58-7	
2-Chlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-57-8	
4-Chlorophenylphenyl ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	7005-72-3	
Dibenzofuran	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	132-64-9	
3,3'-Dichlorobenzidine	**<412**	ug/kg	824	412	1	05/29/19 09:29	06/02/19 17:28	91-94-1	
2,4-Dichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	120-83-2	
Diethylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	84-66-2	
2,4-Dimethylphenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	105-67-9	
Dimethylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	131-11-3	
Di-n-butylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	84-74-2	
4,6-Dinitro-2-methylphenol	**<412**	ug/kg	824	412	1	05/29/19 09:29	06/02/19 17:28	534-52-1	
2,4-Dinitrophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (6-8) **Lab ID: 50225466009** Collected: 05/16/19 12:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	121-14-2	
2,6-Dinitrotoluene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	606-20-2	
Di-n-octylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	117-84-0	
bis(2-Ethylhexyl)phthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	117-81-7	
Hexachloro-1,3-butadiene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	87-68-3	
Hexachlorobenzene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	118-74-1	
Hexachlorocyclopentadiene	**<412**	ug/kg	412	412	1	05/29/19 09:29	06/02/19 17:28	77-47-4	
Hexachloroethane	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	67-72-1	
Isophorone	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	78-59-1	
2-Methylphenol(o-Cresol)	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28		
2-Nitroaniline	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-74-4	
3-Nitroaniline	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	99-09-2	
4-Nitroaniline	**<207**	ug/kg	412	207	1	05/29/19 09:29	06/02/19 17:28	100-01-6	
Nitrobenzene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	98-95-3	
2-Nitrophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-75-5	
4-Nitrophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	100-02-7	
N-Nitroso-di-n-propylamine	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	621-64-7	
N-Nitrosodiphenylamine	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	86-30-6	
Pentachlorophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	87-86-5	
Phenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	108-95-2	
2,4,5-Trichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-95-4	
2,4,6-Trichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%.	18-98		1	05/29/19 09:29	06/02/19 17:28	4165-60-0	
Phenol-d5 (S)	70	%.	18-108		1	05/29/19 09:29	06/02/19 17:28	4165-62-2	
2-Fluorophenol (S)	64	%.	16-104		1	05/29/19 09:29	06/02/19 17:28	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	10-114		1	05/29/19 09:29	06/02/19 17:28	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.7**	%	0.10	0.10	1		05/28/19 12:40		

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (8-9) **Lab ID: 50225466010** Collected: 05/16/19 12:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:26	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	208-96-8	
Anthracene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	120-12-7	
Benzo(a)anthracene	**2.7J**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:26	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:26	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:26	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:26	207-08-9	
Chrysene	**4.3J**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:26	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:26	53-70-3	
Fluoranthene	**4.1J**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:26	206-44-0	
Fluorene	**2.4J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:26	193-39-5	
1-Methylnaphthalene	**195**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:26	90-12-0	
2-Methylnaphthalene	**398**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:26	91-57-6	
Naphthalene	**121**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:26	91-20-3	
Phenanthrene	**7.4**	ug/kg	6.2	2.3	1	05/29/19 09:25	06/02/19 18:26	85-01-8	
Pyrene	**5.0J**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	23-107		1	05/29/19 09:25	06/02/19 18:26	321-60-8	
p-Terphenyl-d14 (S)	90	%.	16-117		1	05/29/19 09:25	06/02/19 18:26	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	59-50-7	
4-Chloroaniline	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	91-58-7	
2-Chlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	7005-72-3	
Dibenzofuran	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	132-64-9	
3,3'-Dichlorobenzidine	**<409**	ug/kg	818	409	1	05/29/19 09:29	06/02/19 17:44	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	120-83-2	
Diethylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	105-67-9	
Dimethylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	**<409**	ug/kg	818	409	1	05/29/19 09:29	06/02/19 17:44	534-52-1	
2,4-Dinitrophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	51-28-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (8-9) **Lab ID: 50225466010** Collected: 05/16/19 12:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	118-74-1	
Hexachlorocyclopentadiene	**<409**	ug/kg	409	409	1	05/29/19 09:29	06/02/19 17:44	77-47-4	
Hexachloroethane	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	67-72-1	
Isophorone	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44		
2-Nitroaniline	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-74-4	
3-Nitroaniline	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	99-09-2	
4-Nitroaniline	**<206**	ug/kg	409	206	1	05/29/19 09:29	06/02/19 17:44	100-01-6	
Nitrobenzene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	98-95-3	
2-Nitrophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-75-5	
4-Nitrophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	86-30-6	
Pentachlorophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	87-86-5	
Phenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%.	18-98		1	05/29/19 09:29	06/02/19 17:44	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 17:44	4165-62-2	
2-Fluorophenol (S)	70	%.	16-104		1	05/29/19 09:29	06/02/19 17:44	367-12-4	
2,4,6-Tribromophenol (S)	67	%.	10-114		1	05/29/19 09:29	06/02/19 17:44	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.3**	%	0.10	0.10	1		05/28/19 12:40		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (9-10.5) **Lab ID: 50225466011** Collected: 05/16/19 12:10 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:43	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	208-96-8	
Anthracene	**3.4J**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	120-12-7	
Benzo(a)anthracene	**6.5**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:43	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:43	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:43	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:43	207-08-9	
Chrysene	**11.9**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:43	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:43	53-70-3	
Fluoranthene	**9.6**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:43	206-44-0	
Fluorene	**5.8J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:43	193-39-5	
1-Methylnaphthalene	**314**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:43	90-12-0	
2-Methylnaphthalene	**592**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:43	91-57-6	
Naphthalene	**200**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:43	91-20-3	
Phenanthrene	**17.8**	ug/kg	6.2	2.3	1	05/29/19 09:25	06/02/19 18:43	85-01-8	
Pyrene	**11.9**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:43	321-60-8	
p-Terphenyl-d14 (S)	89	%.	16-117		1	05/29/19 09:25	06/02/19 18:43	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	59-50-7	
4-Chloroaniline	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	91-58-7	
2-Chlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	7005-72-3	
Dibenzofuran	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	132-64-9	
3,3'-Dichlorobenzidine	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 18:00	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	120-83-2	
Diethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	105-67-9	
Dimethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	84-74-2	
4,6-Dinitro-2-methylphenol	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 18:00	534-52-1	
2,4-Dinitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (9-10.5) **Lab ID: 50225466011** Collected: 05/16/19 12:10 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	118-74-1	
Hexachlorocyclopentadiene	**<408**	ug/kg	408	408	1	05/29/19 09:29	06/02/19 18:00	77-47-4	
Hexachloroethane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	67-72-1	
Isophorone	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00		
2-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-74-4	
3-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	99-09-2	
4-Nitroaniline	**<205**	ug/kg	408	205	1	05/29/19 09:29	06/02/19 18:00	100-01-6	
Nitrobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	98-95-3	
2-Nitrophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-75-5	
4-Nitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	86-30-6	
Pentachlorophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	87-86-5	
Phenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%.	18-98		1	05/29/19 09:29	06/02/19 18:00	4165-60-0	
Phenol-d5 (S)	75	%.	18-108		1	05/29/19 09:29	06/02/19 18:00	4165-62-2	
2-Fluorophenol (S)	68	%.	16-104		1	05/29/19 09:29	06/02/19 18:00	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 18:00	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.3**	%	0.10	0.10	1		05/28/19 12:40		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (0-2) **Lab ID: 50225466012** Collected: 05/16/19 11:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.195 g Final Volume/Weight: 50 mL								
Antimony	**0.23J**	mg/kg	0.95	0.23	1	05/28/19 07:10	05/28/19 17:21	7440-36-0	
Arsenic	**6.1**	mg/kg	0.95	0.13	1	05/28/19 07:10	05/28/19 17:21	7440-38-2	
Barium	**147**	mg/kg	0.95	0.029	1	05/28/19 07:10	05/28/19 17:21	7440-39-3	
Beryllium	**0.54**	mg/kg	0.48	0.019	1	05/28/19 07:10	05/28/19 17:21	7440-41-7	
Cadmium	**0.20J**	mg/kg	0.48	0.019	1	05/28/19 07:10	05/28/19 17:21	7440-43-9	
Chromium	**14.9**	mg/kg	0.95	0.28	1	05/28/19 07:10	05/28/19 17:21	7440-47-3	
Copper	**12.1**	mg/kg	0.95	0.10	1	05/28/19 07:10	05/28/19 17:21	7440-50-8	
Lead	**107**	mg/kg	0.95	0.14	1	05/28/19 07:10	05/28/19 17:21	7439-92-1	
Nickel	**9.3**	mg/kg	0.95	0.10	1	05/28/19 07:10	05/28/19 17:21	7440-02-0	
Selenium	**<0.35**	mg/kg	0.95	0.35	1	05/28/19 07:10	05/28/19 17:21	7782-49-2	
Silver	**<0.27**	mg/kg	0.48	0.27	1	05/28/19 07:10	05/28/19 17:21	7440-22-4	
Thallium	**0.59J**	mg/kg	0.95	0.23	1	05/28/19 07:10	05/28/19 17:21	7440-28-0	
Zinc	**57.5**	mg/kg	0.95	0.33	1	05/28/19 07:10	05/28/19 17:21	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.322 g Final Volume/Weight: 50 mL								
Mercury	**0.85**	mg/kg	0.21	0.10	1	05/30/19 12:54	05/30/19 20:42	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**12.3**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (0-2) DUP **Lab ID: 50225466013** Collected: 05/16/19 11:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.166 g Final Volume/Weight: 50 mL								
Antimony	**<0.23**	mg/kg	0.98	0.23	1	05/28/19 07:10	05/28/19 17:23	7440-36-0	
Arsenic	**7.5**	mg/kg	0.98	0.14	1	05/28/19 07:10	05/28/19 17:23	7440-38-2	
Barium	**136**	mg/kg	0.98	0.029	1	05/28/19 07:10	05/28/19 17:23	7440-39-3	
Beryllium	**0.66**	mg/kg	0.49	0.020	1	05/28/19 07:10	05/28/19 17:23	7440-41-7	
Cadmium	**0.14J**	mg/kg	0.49	0.020	1	05/28/19 07:10	05/28/19 17:23	7440-43-9	
Chromium	**13.9**	mg/kg	0.98	0.28	1	05/28/19 07:10	05/28/19 17:23	7440-47-3	
Copper	**116**	mg/kg	0.98	0.11	1	05/28/19 07:10	05/28/19 17:23	7440-50-8	
Lead	**95.3**	mg/kg	0.98	0.15	1	05/28/19 07:10	05/28/19 17:23	7439-92-1	
Nickel	**10.5**	mg/kg	0.98	0.11	1	05/28/19 07:10	05/28/19 17:23	7440-02-0	
Selenium	**<0.36**	mg/kg	0.98	0.36	1	05/28/19 07:10	05/28/19 17:23	7782-49-2	
Silver	**<0.27**	mg/kg	0.49	0.27	1	05/28/19 07:10	05/28/19 17:23	7440-22-4	
Thallium	**0.60J**	mg/kg	0.98	0.23	1	05/28/19 07:10	05/28/19 17:23	7440-28-0	
Zinc	**74.1**	mg/kg	0.98	0.34	1	05/28/19 07:10	05/28/19 17:23	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.328 g Final Volume/Weight: 50 mL								
Mercury	**1.0**	mg/kg	0.21	0.10	1	05/30/19 12:54	05/30/19 20:44	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**12.1**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (2-4) **Lab ID: 50225466014** Collected: 05/16/19 11:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.065 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:25	7440-36-0	
Arsenic	**7.7**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 17:25	7440-38-2	
Barium	**91.6**	mg/kg	1.1	0.034	1	05/28/19 07:10	05/28/19 17:25	7440-39-3	
Beryllium	**0.67**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 17:25	7440-41-7	
Cadmium	**0.099J**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 17:25	7440-43-9	
Chromium	**15.1**	mg/kg	1.1	0.33	1	05/28/19 07:10	05/28/19 17:25	7440-47-3	
Copper	**11.8**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 17:25	7440-50-8	
Lead	**17.8**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:25	7439-92-1	
Nickel	**11.4**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 17:25	7440-02-0	
Selenium	**<0.42**	mg/kg	1.1	0.42	1	05/28/19 07:10	05/28/19 17:25	7782-49-2	
Silver	**<0.32**	mg/kg	0.57	0.32	1	05/28/19 07:10	05/28/19 17:25	7440-22-4	
Thallium	**0.54J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:25	7440-28-0	
Zinc	**49.4**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 17:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.307 g Final Volume/Weight: 50 mL								
Mercury	**0.42**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:46	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**17.8**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (9-11) **Lab ID: 50225466015** Collected: 05/16/19 11:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**6.3J**	ug/kg	6.6	1.7	1	05/29/19 09:25	06/02/19 18:59	83-32-9	
Acenaphthylene	**<2.0**	ug/kg	6.6	2.0	1	05/29/19 09:25	06/02/19 18:59	208-96-8	
Anthracene	**5.9J**	ug/kg	6.6	1.9	1	05/29/19 09:25	06/02/19 18:59	120-12-7	
Benzo(a)anthracene	**9.6**	ug/kg	6.6	2.0	1	05/29/19 09:25	06/02/19 18:59	56-55-3	
Benzo(a)pyrene	**2.9J**	ug/kg	6.6	2.4	1	05/29/19 09:25	06/02/19 18:59	50-32-8	
Benzo(b)fluoranthene	**4.0J**	ug/kg	6.6	2.7	1	05/29/19 09:25	06/02/19 18:59	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	6.6	2.8	1	05/29/19 09:25	06/02/19 18:59	191-24-2	
Benzo(k)fluoranthene	**3.2J**	ug/kg	6.6	2.5	1	05/29/19 09:25	06/02/19 18:59	207-08-9	
Chrysene	**13.9**	ug/kg	6.6	2.3	1	05/29/19 09:25	06/02/19 18:59	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.6	2.7	1	05/29/19 09:25	06/02/19 18:59	53-70-3	
Fluoranthene	**17.2**	ug/kg	6.6	3.4	1	05/29/19 09:25	06/02/19 18:59	206-44-0	
Fluorene	**11.2**	ug/kg	6.6	1.7	1	05/29/19 09:25	06/02/19 18:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	6.6	2.6	1	05/29/19 09:25	06/02/19 18:59	193-39-5	
1-Methylnaphthalene	**395**	ug/kg	6.6	1.4	1	05/29/19 09:25	06/02/19 18:59	90-12-0	
2-Methylnaphthalene	**469**	ug/kg	6.6	1.4	1	05/29/19 09:25	06/02/19 18:59	91-57-6	
Naphthalene	**<1.3**	ug/kg	6.6	1.3	1	05/29/19 09:25	06/02/19 18:59	91-20-3	
Phenanthrene	**29.1**	ug/kg	6.6	2.5	1	05/29/19 09:25	06/02/19 18:59	85-01-8	
Pyrene	**20.7**	ug/kg	6.6	2.6	1	05/29/19 09:25	06/02/19 18:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:59	321-60-8	
p-Terphenyl-d14 (S)	93	%.	16-117		1	05/29/19 09:25	06/02/19 18:59	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	100-51-6	
4-Bromophenylphenyl ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	101-55-3	
Butylbenzylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	85-68-7	
4-Chloro-3-methylphenol	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	59-50-7	
4-Chloroaniline	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	106-47-8	
bis(2-Chloroethoxy)methane	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	111-91-1	
bis(2-Chloroethyl) ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	111-44-4	
bis(2chloro1methylethyl) ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	108-60-1	
2-Chloronaphthalene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	91-58-7	
2-Chlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-57-8	
4-Chlorophenylphenyl ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	7005-72-3	
Dibenzofuran	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	132-64-9	
3,3'-Dichlorobenzidine	**<436**	ug/kg	871	436	1	05/29/19 09:29	06/02/19 18:16	91-94-1	
2,4-Dichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	120-83-2	
Diethylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	84-66-2	
2,4-Dimethylphenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	105-67-9	
Dimethylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	131-11-3	
Di-n-butylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	84-74-2	
4,6-Dinitro-2-methylphenol	**<436**	ug/kg	871	436	1	05/29/19 09:29	06/02/19 18:16	534-52-1	
2,4-Dinitrophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (9-11) **Lab ID: 50225466015** Collected: 05/16/19 11:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	121-14-2	
2,6-Dinitrotoluene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	606-20-2	
Di-n-octylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	117-84-0	
bis(2-Ethylhexyl)phthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	117-81-7	
Hexachloro-1,3-butadiene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	87-68-3	
Hexachlorobenzene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	118-74-1	
Hexachlorocyclopentadiene	**<436**	ug/kg	436	436	1	05/29/19 09:29	06/02/19 18:16	77-47-4	
Hexachloroethane	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	67-72-1	
Isophorone	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	78-59-1	
2-Methylphenol(o-Cresol)	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16		
2-Nitroaniline	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-74-4	
3-Nitroaniline	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	99-09-2	
4-Nitroaniline	**<219**	ug/kg	436	219	1	05/29/19 09:29	06/02/19 18:16	100-01-6	
Nitrobenzene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	98-95-3	
2-Nitrophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-75-5	
4-Nitrophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	100-02-7	
N-Nitroso-di-n-propylamine	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	621-64-7	
N-Nitrosodiphenylamine	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	86-30-6	
Pentachlorophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	87-86-5	
Phenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	108-95-2	
2,4,5-Trichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-95-4	
2,4,6-Trichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%.	18-98		1	05/29/19 09:29	06/02/19 18:16	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 18:16	4165-62-2	
2-Fluorophenol (S)	69	%.	16-104		1	05/29/19 09:29	06/02/19 18:16	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	10-114		1	05/29/19 09:29	06/02/19 18:16	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**24.8**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) **Lab ID: 50225466016** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**37.6**	ug/kg	7.3	1.8	1	05/29/19 09:25	06/02/19 19:16	83-32-9	
Acenaphthylene	**11.0**	ug/kg	7.3	2.2	1	05/29/19 09:25	06/02/19 19:16	208-96-8	
Anthracene	**41.0**	ug/kg	7.3	2.1	1	05/29/19 09:25	06/02/19 19:16	120-12-7	
Benzo(a)anthracene	**22.2**	ug/kg	7.3	2.2	1	05/29/19 09:25	06/02/19 19:16	56-55-3	
Benzo(a)pyrene	**6.3J**	ug/kg	7.3	2.6	1	05/29/19 09:25	06/02/19 19:16	50-32-8	
Benzo(b)fluoranthene	**8.1**	ug/kg	7.3	3.0	1	05/29/19 09:25	06/02/19 19:16	205-99-2	
Benzo(g,h,i)perylene	**<3.1**	ug/kg	7.3	3.1	1	05/29/19 09:25	06/02/19 19:16	191-24-2	
Benzo(k)fluoranthene	**6.6J**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	207-08-9	
Chrysene	**22.6**	ug/kg	7.3	2.5	1	05/29/19 09:25	06/02/19 19:16	218-01-9	
Dibenz(a,h)anthracene	**<3.1**	ug/kg	7.3	3.1	1	05/29/19 09:25	06/02/19 19:16	53-70-3	
Fluoranthene	**134**	ug/kg	7.3	3.8	1	05/29/19 09:25	06/02/19 19:16	206-44-0	
Fluorene	**89.4**	ug/kg	7.3	1.8	1	05/29/19 09:25	06/02/19 19:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.8**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	193-39-5	
1-Methylnaphthalene	**27.4**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	90-12-0	
2-Methylnaphthalene	**38.9**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	91-57-6	
Naphthalene	**144**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	91-20-3	
Phenanthrene	**179**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	85-01-8	
Pyrene	**110**	ug/kg	7.3	2.9	1	05/29/19 09:25	06/02/19 19:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%.	23-107		1	05/29/19 09:25	06/02/19 19:16	321-60-8	
p-Terphenyl-d14 (S)	87	%.	16-117		1	05/29/19 09:25	06/02/19 19:16	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	100-51-6	
4-Bromophenylphenyl ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	101-55-3	
Butylbenzylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	85-68-7	
4-Chloro-3-methylphenol	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	59-50-7	
4-Chloroaniline	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	106-47-8	
bis(2-Chloroethoxy)methane	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	111-91-1	
bis(2-Chloroethyl) ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	111-44-4	
bis(2chloro1methylethyl) ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	108-60-1	
2-Chloronaphthalene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	91-58-7	
2-Chlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-57-8	
4-Chlorophenylphenyl ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	7005-72-3	
Dibenzofuran	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	132-64-9	
3,3'-Dichlorobenzidine	**<484**	ug/kg	969	484	1	05/29/19 09:29	06/02/19 18:31	91-94-1	
2,4-Dichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	120-83-2	
Diethylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	84-66-2	
2,4-Dimethylphenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	105-67-9	
Dimethylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	131-11-3	
Di-n-butylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	84-74-2	
4,6-Dinitro-2-methylphenol	**<484**	ug/kg	969	484	1	05/29/19 09:29	06/02/19 18:31	534-52-1	
2,4-Dinitrophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) **Lab ID: 50225466016** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	121-14-2	
2,6-Dinitrotoluene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	606-20-2	
Di-n-octylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	117-84-0	
bis(2-Ethylhexyl)phthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	117-81-7	
Hexachloro-1,3-butadiene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	87-68-3	
Hexachlorobenzene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	118-74-1	
Hexachlorocyclopentadiene	**<484**	ug/kg	484	484	1	05/29/19 09:29	06/02/19 18:31	77-47-4	
Hexachloroethane	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	67-72-1	
Isophorone	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	78-59-1	
2-Methylphenol(o-Cresol)	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31		
2-Nitroaniline	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-74-4	
3-Nitroaniline	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	99-09-2	
4-Nitroaniline	**<244**	ug/kg	484	244	1	05/29/19 09:29	06/02/19 18:31	100-01-6	
Nitrobenzene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	98-95-3	
2-Nitrophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-75-5	
4-Nitrophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	100-02-7	
N-Nitroso-di-n-propylamine	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	621-64-7	
N-Nitrosodiphenylamine	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	86-30-6	
Pentachlorophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	87-86-5	
Phenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	108-95-2	
2,4,5-Trichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-95-4	
2,4,6-Trichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	18-98		1	05/29/19 09:29	06/02/19 18:31	4165-60-0	
Phenol-d5 (S)	77	%.	18-108		1	05/29/19 09:29	06/02/19 18:31	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 18:31	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	10-114		1	05/29/19 09:29	06/02/19 18:31	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**32.6**	%	0.10	0.10	1		05/28/19 12:42		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) DUP **Lab ID: 50225466017** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.5	1.6	1	05/29/19 09:25	06/02/19 19:32	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	208-96-8	
Anthracene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	120-12-7	
Benzo(a)anthracene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	56-55-3	
Benzo(a)pyrene	**<2.3**	ug/kg	6.5	2.3	1	05/29/19 09:25	06/02/19 19:32	50-32-8	
Benzo(b)fluoranthene	**<2.6**	ug/kg	6.5	2.6	1	05/29/19 09:25	06/02/19 19:32	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	6.5	2.8	1	05/29/19 09:25	06/02/19 19:32	191-24-2	
Benzo(k)fluoranthene	**<2.5**	ug/kg	6.5	2.5	1	05/29/19 09:25	06/02/19 19:32	207-08-9	
Chrysene	**<2.2**	ug/kg	6.5	2.2	1	05/29/19 09:25	06/02/19 19:32	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.5	2.7	1	05/29/19 09:25	06/02/19 19:32	53-70-3	
Fluoranthene	**<3.4**	ug/kg	6.5	3.4	1	05/29/19 09:25	06/02/19 19:32	206-44-0	
Fluorene	**<1.6**	ug/kg	6.5	1.6	1	05/29/19 09:25	06/02/19 19:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	6.5	2.5	1	05/29/19 09:25	06/02/19 19:32	193-39-5	
1-Methylnaphthalene	**19.0**	ug/kg	6.5	1.3	1	05/29/19 09:25	06/02/19 19:32	90-12-0	
2-Methylnaphthalene	**21.3**	ug/kg	6.5	1.4	1	05/29/19 09:25	06/02/19 19:32	91-57-6	
Naphthalene	**14.8**	ug/kg	6.5	1.3	1	05/29/19 09:25	06/02/19 19:32	91-20-3	
Phenanthrene	**<2.4**	ug/kg	6.5	2.4	1	05/29/19 09:25	06/02/19 19:32	85-01-8	
Pyrene	**<2.6**	ug/kg	6.5	2.6	1	05/29/19 09:25	06/02/19 19:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%.	23-107		1	05/29/19 09:25	06/02/19 19:32	321-60-8	
p-Terphenyl-d14 (S)	85	%.	16-117		1	05/29/19 09:25	06/02/19 19:32	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	100-51-6	
4-Bromophenylphenyl ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	101-55-3	
Butylbenzylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	85-68-7	
4-Chloro-3-methylphenol	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	59-50-7	
4-Chloroaniline	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	106-47-8	
bis(2-Chloroethoxy)methane	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	111-91-1	
bis(2-Chloroethyl) ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	111-44-4	
bis(2chloro1methylethyl) ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	108-60-1	
2-Chloronaphthalene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	91-58-7	
2-Chlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-57-8	
4-Chlorophenylphenyl ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	7005-72-3	
Dibenzofuran	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	132-64-9	
3,3'-Dichlorobenzidine	**<428**	ug/kg	856	428	1	05/29/19 09:29	06/02/19 18:47	91-94-1	
2,4-Dichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	120-83-2	
Diethylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	84-66-2	
2,4-Dimethylphenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	105-67-9	
Dimethylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	131-11-3	
Di-n-butylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	84-74-2	
4,6-Dinitro-2-methylphenol	**<428**	ug/kg	856	428	1	05/29/19 09:29	06/02/19 18:47	534-52-1	
2,4-Dinitrophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) DUP **Lab ID: 50225466017** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	121-14-2	
2,6-Dinitrotoluene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	606-20-2	
Di-n-octylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	117-84-0	
bis(2-Ethylhexyl)phthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	117-81-7	
Hexachloro-1,3-butadiene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	87-68-3	
Hexachlorobenzene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	118-74-1	
Hexachlorocyclopentadiene	**<428**	ug/kg	428	428	1	05/29/19 09:29	06/02/19 18:47	77-47-4	
Hexachloroethane	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	67-72-1	
Isophorone	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	78-59-1	
2-Methylphenol(o-Cresol)	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47		
2-Nitroaniline	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-74-4	
3-Nitroaniline	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	99-09-2	
4-Nitroaniline	**<215**	ug/kg	428	215	1	05/29/19 09:29	06/02/19 18:47	100-01-6	
Nitrobenzene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	98-95-3	
2-Nitrophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-75-5	
4-Nitrophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	100-02-7	
N-Nitroso-di-n-propylamine	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	621-64-7	
N-Nitrosodiphenylamine	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	86-30-6	
Pentachlorophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	87-86-5	
Phenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	108-95-2	
2,4,5-Trichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-95-4	
2,4,6-Trichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	18-98		1	05/29/19 09:29	06/02/19 18:47	4165-60-0	
Phenol-d5 (S)	80	%.	18-108		1	05/29/19 09:29	06/02/19 18:47	4165-62-2	
2-Fluorophenol (S)	71	%.	16-104		1	05/29/19 09:29	06/02/19 18:47	367-12-4	
2,4,6-Tribromophenol (S)	66	%.	10-114		1	05/29/19 09:29	06/02/19 18:47	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**23.7**	%	0.10	0.10	1		05/28/19 12:42		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.11 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:28	7440-36-0	
Arsenic	**6.6**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 17:28	7440-38-2	
Barium	**118**	mg/kg	1.1	0.033	1	05/28/19 07:10	05/28/19 17:28	7440-39-3	
Beryllium	**1.1**	mg/kg	0.56	0.022	1	05/28/19 07:10	05/28/19 17:28	7440-41-7	
Cadmium	**0.16J**	mg/kg	0.56	0.022	1	05/28/19 07:10	05/28/19 17:28	7440-43-9	
Chromium	**32.3**	mg/kg	1.1	0.32	1	05/28/19 07:10	05/28/19 17:28	7440-47-3	
Copper	**13.5**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:28	7440-50-8	
Lead	**14.0**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:28	7439-92-1	
Nickel	**15.0**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:28	7440-02-0	
Selenium	**<0.41**	mg/kg	1.1	0.41	1	05/28/19 07:10	05/28/19 17:28	7782-49-2	
Silver	**<0.31**	mg/kg	0.56	0.31	1	05/28/19 07:10	05/28/19 17:28	7440-22-4	
Thallium	**0.50J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:28	7440-28-0	
Zinc	**57.3**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 17:28	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.324 g Final Volume/Weight: 50 mL								
Mercury	**<0.11**	mg/kg	0.23	0.11	1	05/30/19 12:54	05/30/19 20:48	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.5**	ug/kg	6.1	1.5	1	05/29/19 09:25	06/03/19 13:19	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	208-96-8	
Anthracene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	120-12-7	
Benzo(a)anthracene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.1	2.2	1	05/29/19 09:25	06/03/19 13:19	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	205-99-2	
Benzo(g,h,i)perylene	**<2.6**	ug/kg	6.1	2.6	1	05/29/19 09:25	06/03/19 13:19	191-24-2	
Benzo(k)fluoranthene	**<2.3**	ug/kg	6.1	2.3	1	05/29/19 09:25	06/03/19 13:19	207-08-9	
Chrysene	**<2.1**	ug/kg	6.1	2.1	1	05/29/19 09:25	06/03/19 13:19	218-01-9	
Dibenz(a,h)anthracene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	53-70-3	
Fluoranthene	**<3.2**	ug/kg	6.1	3.2	1	05/29/19 09:25	06/03/19 13:19	206-44-0	
Fluorene	**<1.5**	ug/kg	6.1	1.5	1	05/29/19 09:25	06/03/19 13:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.1	2.4	1	05/29/19 09:25	06/03/19 13:19	193-39-5	
1-Methylnaphthalene	**<1.3**	ug/kg	6.1	1.3	1	05/29/19 09:25	06/03/19 13:19	90-12-0	
2-Methylnaphthalene	**<1.3**	ug/kg	6.1	1.3	1	05/29/19 09:25	06/03/19 13:19	91-57-6	
Naphthalene	**<1.2**	ug/kg	6.1	1.2	1	05/29/19 09:25	06/03/19 13:19	91-20-3	
Phenanthrene	**<2.3**	ug/kg	6.1	2.3	1	05/29/19 09:25	06/03/19 13:19	85-01-8	
Pyrene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%.	23-107		1	05/29/19 09:25	06/03/19 13:19	321-60-8	
p-Terphenyl-d14 (S)	86	%.	16-117		1	05/29/19 09:25	06/03/19 13:19	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	100-51-6	
4-Bromophenylphenyl ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	101-55-3	
Butylbenzylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	85-68-7	
4-Chloro-3-methylphenol	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	59-50-7	
4-Chloroaniline	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	106-47-8	
bis(2-Chloroethoxy)methane	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	111-91-1	
bis(2-Chloroethyl) ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	111-44-4	
bis(2chloro1methylethyl) ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	108-60-1	
2-Chloronaphthalene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	91-58-7	
2-Chlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-57-8	
4-Chlorophenylphenyl ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	7005-72-3	
Dibenzofuran	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	132-64-9	
3,3'-Dichlorobenzidine	**<405**	ug/kg	809	405	1	05/29/19 09:29	06/02/19 19:03	91-94-1	
2,4-Dichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	120-83-2	
Diethylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	84-66-2	
2,4-Dimethylphenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	105-67-9	
Dimethylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	131-11-3	
Di-n-butylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	84-74-2	
4,6-Dinitro-2-methylphenol	**<405**	ug/kg	809	405	1	05/29/19 09:29	06/02/19 19:03	534-52-1	
2,4-Dinitrophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	51-28-5	
2,4-Dinitrotoluene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	121-14-2	
2,6-Dinitrotoluene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	606-20-2	
Di-n-octylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	117-84-0	
bis(2-Ethylhexyl)phthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	117-81-7	
Hexachloro-1,3-butadiene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	87-68-3	
Hexachlorobenzene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	118-74-1	
Hexachlorocyclopentadiene	**<405**	ug/kg	405	405	1	05/29/19 09:29	06/02/19 19:03	77-47-4	
Hexachloroethane	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	67-72-1	
Isophorone	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	78-59-1	
2-Methylphenol(o-Cresol)	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03		
2-Nitroaniline	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-74-4	
3-Nitroaniline	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	99-09-2	
4-Nitroaniline	**<203**	ug/kg	405	203	1	05/29/19 09:29	06/02/19 19:03	100-01-6	
Nitrobenzene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	98-95-3	
2-Nitrophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-75-5	
4-Nitrophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	100-02-7	
N-Nitroso-di-n-propylamine	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	621-64-7	
N-Nitrosodiphenylamine	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	86-30-6	
Pentachlorophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	87-86-5	
Phenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	108-95-2	
2,4,5-Trichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-95-4	
2,4,6-Trichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	72	%.	18-98		1	05/29/19 09:29	06/02/19 19:03	4165-60-0	
Phenol-d5 (S)	86	%.	18-108		1	05/29/19 09:29	06/02/19 19:03	4165-62-2	
2-Fluorophenol (S)	72	%.	16-104		1	05/29/19 09:29	06/02/19 19:03	367-12-4	
2,4,6-Tribromophenol (S)	71	%.	10-114		1	05/29/19 09:29	06/02/19 19:03	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.0**	%	0.10	0.10	1		05/28/19 12:42		

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 503160 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

METHOD BLANK: 2321759 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.091	0.19	0.091	05/30/19 20:12	

LABORATORY CONTROL SAMPLE: 2321760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.49	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321761 2321762

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.59	0.54	0.55	1.6	0.96	184	67	75-125	49	20	1d,M0

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502188 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

METHOD BLANK: 2317323 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.24	1.0	0.24	05/28/19 16:42	
Arsenic	mg/kg	<0.14	1.0	0.14	05/28/19 16:42	
Barium	mg/kg	<0.030	1.0	0.030	05/28/19 16:42	
Beryllium	mg/kg	<0.020	0.50	0.020	05/28/19 16:42	
Cadmium	mg/kg	<0.020	0.50	0.020	05/28/19 16:42	
Chromium	mg/kg	<0.29	1.0	0.29	05/28/19 16:42	
Copper	mg/kg	0.18J	1.0	0.11	05/28/19 16:42	
Lead	mg/kg	<0.15	1.0	0.15	05/28/19 16:42	
Nickel	mg/kg	<0.11	1.0	0.11	05/28/19 16:42	
Selenium	mg/kg	<0.37	1.0	0.37	05/28/19 16:42	
Silver	mg/kg	<0.28	0.50	0.28	05/28/19 16:42	
Thallium	mg/kg	<0.24	1.0	0.24	05/28/19 16:42	
Zinc	mg/kg	<0.35	1.0	0.35	05/28/19 16:42	

LABORATORY CONTROL SAMPLE: 2317324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	49.9	100	80-120	
Arsenic	mg/kg	50	48.2	96	80-120	
Barium	mg/kg	50	51.2	102	80-120	
Beryllium	mg/kg	50	49.6	99	80-120	
Cadmium	mg/kg	50	48.7	97	80-120	
Chromium	mg/kg	50	49.1	98	80-120	
Copper	mg/kg	50	49.3	99	80-120	
Lead	mg/kg	50	46.9	94	80-120	
Nickel	mg/kg	50	48.5	97	80-120	
Selenium	mg/kg	50	49.1	98	80-120	
Silver	mg/kg	25	24.9	100	80-120	
Thallium	mg/kg	50	47.5	95	80-120	
Zinc	mg/kg	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317325 2317326

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	<0.26	51.9	58.9	17.1	22.6	33	38	75-125	28	20	2d,M3
Arsenic	mg/kg	6.3	51.9	58.9	50.6	59.2	85	90	75-125	16	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317325 2317326

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/kg	301	51.9	58.9	408	345	206	74	75-125	17	20	P6
Beryllium	mg/kg	0.51J	51.9	58.9	44.9	52.1	86	88	75-125	15	20	
Cadmium	mg/kg	0.34J	51.9	58.9	45.9	54.2	88	92	75-125	17	20	
Chromium	mg/kg	13.3	51.9	58.9	59.9	65.7	90	89	75-125	9	20	
Copper	mg/kg	17.6	51.9	58.9	67.1	74.1	95	96	75-125	10	20	
Lead	mg/kg	96.5	51.9	58.9	150	162	102	111	75-125	8	20	
Nickel	mg/kg	13.2	51.9	58.9	54.3	60.9	79	81	75-125	12	20	
Selenium	mg/kg	<0.40	51.9	58.9	44.4	52.9	85	89	75-125	18	20	
Silver	mg/kg	<0.30	25.9	29.5	24.2	28.9	93	97	75-125	17	20	
Thallium	mg/kg	0.83J	51.9	58.9	37.7	42.6	71	71	75-125	12	20	M3
Zinc	mg/kg	97.4	51.9	58.9	142	159	87	104	75-125	11	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502966 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

METHOD BLANK: 2320950 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<1.0	5.0	1.0	05/30/19 15:26	
2-Methylnaphthalene	ug/kg	<1.0	5.0	1.0	05/30/19 15:26	
Acenaphthene	ug/kg	<1.2	5.0	1.2	05/30/19 15:26	
Acenaphthylene	ug/kg	<1.5	5.0	1.5	05/30/19 15:26	
Anthracene	ug/kg	<1.4	5.0	1.4	05/30/19 15:26	
Benzo(a)anthracene	ug/kg	<1.5	5.0	1.5	05/30/19 15:26	
Benzo(a)pyrene	ug/kg	<1.8	5.0	1.8	05/30/19 15:26	
Benzo(b)fluoranthene	ug/kg	<2.0	5.0	2.0	05/30/19 15:26	
Benzo(g,h,i)perylene	ug/kg	<2.1	5.0	2.1	05/30/19 15:26	
Benzo(k)fluoranthene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Chrysene	ug/kg	<1.7	5.0	1.7	05/30/19 15:26	
Dibenz(a,h)anthracene	ug/kg	<2.1	5.0	2.1	05/30/19 15:26	
Fluoranthene	ug/kg	<2.6	5.0	2.6	05/30/19 15:26	
Fluorene	ug/kg	<1.2	5.0	1.2	05/30/19 15:26	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Naphthalene	ug/kg	<0.99	5.0	0.99	05/30/19 15:26	
Phenanthrene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Pyrene	ug/kg	<2.0	5.0	2.0	05/30/19 15:26	
2-Fluorobiphenyl (S)	%.	62	23-107		05/30/19 15:26	
p-Terphenyl-d14 (S)	%.	89	16-117		05/30/19 15:26	

LABORATORY CONTROL SAMPLE: 2320951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	215	64	44-111	
2-Methylnaphthalene	ug/kg	333	218	66	45-111	
Acenaphthene	ug/kg	333	211	63	48-109	
Acenaphthylene	ug/kg	333	211	63	49-108	
Anthracene	ug/kg	333	244	73	44-104	
Benzo(a)anthracene	ug/kg	333	242	73	46-122	
Benzo(a)pyrene	ug/kg	333	193	58	31-156	
Benzo(b)fluoranthene	ug/kg	333	218	65	29-158	
Benzo(g,h,i)perylene	ug/kg	333	203	61	35-145	
Benzo(k)fluoranthene	ug/kg	333	191	57	33-150	
Chrysene	ug/kg	333	277	83	47-120	
Dibenz(a,h)anthracene	ug/kg	333	197	59	28-160	
Fluoranthene	ug/kg	333	236	71	49-121	
Fluorene	ug/kg	333	211	63	47-116	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

LABORATORY CONTROL SAMPLE: 2320951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	200	60	31-155	
Naphthalene	ug/kg	333	210	63	47-103	
Phenanthrene	ug/kg	333	243	73	50-114	
Pyrene	ug/kg	333	277	83	49-114	
2-Fluorobiphenyl (S)	%.			57	23-107	
p-Terphenyl-d14 (S)	%.			82	16-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2320952 2320953

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<12.1	396	397	277	291	70	73	10-145	5	20	
2-Methylnaphthalene	ug/kg	<12.4	396	397	280	291	71	73	10-135	4	20	
Acenaphthene	ug/kg	<14.8	396	397	272	291	69	73	10-138	7	20	
Acenaphthylene	ug/kg	23.9J	396	397	282	300	65	70	11-133	6	20	
Anthracene	ug/kg	59.3	396	397	349	363	73	76	10-131	4	20	
Benzo(a)anthracene	ug/kg	380	396	397	810	835	108	114	10-158	3	20	
Benzo(a)pyrene	ug/kg	400	396	397	786	907	98	128	10-174	14	20	
Benzo(b)fluoranthene	ug/kg	441	396	397	865	947	107	127	10-184	9	20	
Benzo(g,h,i)perylene	ug/kg	406	396	397	729	784	81	95	10-170	7	20	
Benzo(k)fluoranthene	ug/kg	346	396	397	708	757	91	103	10-183	7	20	
Chrysene	ug/kg	488	396	397	979	1010	124	131	10-147	3	20	
Dibenz(a,h)anthracene	ug/kg	107	396	397	351	369	62	66	10-166	5	20	
Fluoranthene	ug/kg	724	396	397	1270	1200	138	121	10-158	5	20	
Fluorene	ug/kg	<14.8	396	397	268	284	68	71	10-142	6	20	
Indeno(1,2,3-cd)pyrene	ug/kg	337	396	397	667	723	83	97	11-167	8	20	
Naphthalene	ug/kg	<11.8	396	397	284	294	72	74	13-128	3	20	ED
Phenanthrene	ug/kg	196	396	397	549	509	89	79	10-164	8	20	
Pyrene	ug/kg	786	396	397	1410	1320	157	133	10-152	7	20	M6
2-Fluorobiphenyl (S)	%.						61	64	23-107			
p-Terphenyl-d14 (S)	%.						78	80	16-117			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502967 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV Microwave Scan Spike
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

METHOD BLANK: 2320954 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4,6-Trichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dimethylphenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dinitrophenol	ug/kg	<795	1590	795	05/30/19 20:22	
2,4-Dinitrotoluene	ug/kg	<164	328	164	05/30/19 20:22	
2,6-Dinitrotoluene	ug/kg	<164	328	164	05/30/19 20:22	
2-Chloronaphthalene	ug/kg	<164	328	164	05/30/19 20:22	
2-Chlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2-Methylphenol(o-Cresol)	ug/kg	<164	328	164	05/30/19 20:22	
2-Nitroaniline	ug/kg	<164	328	164	05/30/19 20:22	
2-Nitrophenol	ug/kg	<164	328	164	05/30/19 20:22	
3&4-Methylphenol(m&p Cresol)	ug/kg	<164	656	164	05/30/19 20:22	
3,3'-Dichlorobenzidine	ug/kg	<328	656	328	05/30/19 20:22	
3-Nitroaniline	ug/kg	<164	328	164	05/30/19 20:22	
4,6-Dinitro-2-methylphenol	ug/kg	<328	656	328	05/30/19 20:22	
4-Bromophenylphenyl ether	ug/kg	<164	328	164	05/30/19 20:22	
4-Chloro-3-methylphenol	ug/kg	<164	656	164	05/30/19 20:22	
4-Chloroaniline	ug/kg	<164	656	164	05/30/19 20:22	
4-Chlorophenylphenyl ether	ug/kg	<164	328	164	05/30/19 20:22	
4-Nitroaniline	ug/kg	<165	328	165	05/30/19 20:22	
4-Nitrophenol	ug/kg	<795	1590	795	05/30/19 20:22	
Benzyl alcohol	ug/kg	<164	656	164	05/30/19 20:22	
bis(2-Chloroethoxy)methane	ug/kg	<164	328	164	05/30/19 20:22	
bis(2-Chloroethyl) ether	ug/kg	<164	328	164	05/30/19 20:22	
bis(2-Ethylhexyl)phthalate	ug/kg	<164	328	164	05/30/19 20:22	
bis(2chloro1methylethyl) ether	ug/kg	<164	328	164	05/30/19 20:22	
Butylbenzylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Di-n-butylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Di-n-octylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Dibenzofuran	ug/kg	<164	328	164	05/30/19 20:22	
Diethylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Dimethylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Hexachloro-1,3-butadiene	ug/kg	<164	328	164	05/30/19 20:22	
Hexachlorobenzene	ug/kg	<164	328	164	05/30/19 20:22	
Hexachlorocyclopentadiene	ug/kg	<328	328	328	05/30/19 20:22	
Hexachloroethane	ug/kg	<164	328	164	05/30/19 20:22	
Isophorone	ug/kg	<164	328	164	05/30/19 20:22	
N-Nitroso-di-n-propylamine	ug/kg	<164	328	164	05/30/19 20:22	
N-Nitrosodiphenylamine	ug/kg	<164	328	164	05/30/19 20:22	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

METHOD BLANK: 2320954 Matrix: Solid

Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrobenzene	ug/kg	<164	328	164	05/30/19 20:22	
Pentachlorophenol	ug/kg	<795	1590	795	05/30/19 20:22	
Phenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4,6-Tribromophenol (S)	%.	69	10-114		05/30/19 20:22	
2-Fluorophenol (S)	%.	85	16-104		05/30/19 20:22	
Nitrobenzene-d5 (S)	%.	61	18-98		05/30/19 20:22	
Phenol-d5 (S)	%.	64	18-108		05/30/19 20:22	

LABORATORY CONTROL SAMPLE: 2320955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	2190	66	32-115	
2-Chlorophenol	ug/kg	3330	2130	64	47-102	
4-Chloro-3-methylphenol	ug/kg	3330	2000	60	46-112	
4-Nitrophenol	ug/kg	3330	2170	65	28-123	
N-Nitroso-di-n-propylamine	ug/kg	3330	2000	60	40-103	
Pentachlorophenol	ug/kg	3330	2170	65	27-124	
Phenol	ug/kg	3330	2220	67	40-104	
2,4,6-Tribromophenol (S)	%.			65	10-114	
2-Fluorophenol (S)	%.			65	16-104	
Nitrobenzene-d5 (S)	%.			58	18-98	
Phenol-d5 (S)	%.			64	18-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2320956 2320957

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	<195	3960	3970	2840	2960	72	75	10-125	4	20	
2-Chlorophenol	ug/kg	<195	3960	3970	2660	2720	67	68	14-115	2	20	
4-Chloro-3-methylphenol	ug/kg	<195	3960	3970	3090	3300	78	83	14-127	7	20	
4-Nitrophenol	ug/kg	<945	3960	3970	3000	3080	76	77	10-137	2	20	
N-Nitroso-di-n-propylamine	ug/kg	<195	3960	3970	3200	3260	81	82	24-108	2	20	
Pentachlorophenol	ug/kg	<945	3960	3970	2370	2550	60	64	10-139	7	20	
Phenol	ug/kg	<195	3960	3970	2930	2900	74	73	10-117	1	20	
2,4,6-Tribromophenol (S)	%.						61	62	10-114			
2-Fluorophenol (S)	%.						63	64	16-104			
Nitrobenzene-d5 (S)	%.						68	71	18-98			
Phenol-d5 (S)	%.						73	74	18-108			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502826 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005

SAMPLE DUPLICATE: 2320587

Parameter	Units	50225398001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.0	9.5	5	5	

SAMPLE DUPLICATE: 2320588

Parameter	Units	50225466005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.5	2	5	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502836 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50225466006, 50225466007, 50225466008, 50225466009, 50225466010, 50225466011, 50225466012, 50225466013, 50225466014, 50225466015, 50225466016, 50225466017, 50225466018

SAMPLE DUPLICATE: 2320625

Parameter	Units	50225404004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	18.2	3	5	

SAMPLE DUPLICATE: 2320626

Parameter	Units	50225466016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.6	32.0	2	5	

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QUALIFIERS

Project: 216 College / 19-146
Pace Project No.: 50225466

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

1d	RPD is outside control limits due to sample non-homogeneity
2d	RPD is outside control limits due to sample non-homogeneity KJE 5/28/19
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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METHOD CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B
7471 Mercury	Solid	SW-846 7471A	SW-846 7471A
8270 PAH Combo Soil	Solid	SW-846 8270C	SW-846 3546
8270 SVOC Combo Soil	Solid	SW-846 8270C	SW-846 3546

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225466001	**SP-1 (3-5)**	EPA 3050	502188	EPA 6010	502901
50225466002	**SP-1 (5-7)**	EPA 3050	502188	EPA 6010	502901
50225466003	**SP-2 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466004	**SP-2 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466005	**SP-3 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466006	**SP-3 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466007	**SP-4 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466008	**SP-4 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466012	**SP-5 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466013	**SP-5 (0-2) DUP**	EPA 3050	502188	EPA 6010	502901
50225466014	**SP-5 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466018	**SP-5 (6-8)**	EPA 3050	502188	EPA 6010	502901
50225466001	**SP-1 (3-5)**	EPA 7471	503160	EPA 7471	503520
50225466002	**SP-1 (5-7)**	EPA 7471	503160	EPA 7471	503520
50225466003	**SP-2 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466004	**SP-2 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466005	**SP-3 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466006	**SP-3 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466007	**SP-4 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466008	**SP-4 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466012	**SP-5 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466013	**SP-5 (0-2) DUP**	EPA 7471	503160	EPA 7471	503520
50225466014	**SP-5 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466018	**SP-5 (6-8)**	EPA 7471	503160	EPA 7471	503520
50225466001	**SP-1 (3-5)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466002	**SP-1 (5-7)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466003	**SP-2 (0-2)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466004	**SP-2 (2-4)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466005	**SP-3 (0-2)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466006	**SP-3 (2-4)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466009	**SP-4 (6-8)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466010	**SP-4 (8-9)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466011	**SP-4 (9-10.5)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466015	**SP-5 (9-11)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466016	**SP-5 (11-13)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466017	**SP-5 (11-13) DUP**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466018	**SP-5 (6-8)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466001	**SP-1 (3-5)**	EPA 3546	502967	EPA 8270	503444
50225466002	**SP-1 (5-7)**	EPA 3546	502967	EPA 8270	503444
50225466003	**SP-2 (0-2)**	EPA 3546	502967	EPA 8270	503444
50225466004	**SP-2 (2-4)**	EPA 3546	502967	EPA 8270	503444
50225466005	**SP-3 (0-2)**	EPA 3546	502967	EPA 8270	503444
50225466006	**SP-3 (2-4)**	EPA 3546	502967	EPA 8270	503444
50225466009	**SP-4 (6-8)**	EPA 3546	502967	EPA 8270	503444
50225466010	**SP-4 (8-9)**	EPA 3546	502967	EPA 8270	503444
50225466011	**SP-4 (9-10.5)**	EPA 3546	502967	EPA 8270	503444
50225466015	**SP-5 (9-11)**	EPA 3546	502967	EPA 8270	503444

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225466016	**SP-5 (11-13)**	EPA 3546	502967	EPA 8270	503444
50225466017	**SP-5 (11-13) DUP**	EPA 3546	502967	EPA 8270	503444
50225466018	**SP-5 (6-8)**	EPA 3546	502967	EPA 8270	503444
50225466001	**SP-1 (3-5)**	SM 2540G	502826		
50225466002	**SP-1 (5-7)**	SM 2540G	502826		
50225466003	**SP-2 (0-2)**	SM 2540G	502826		
50225466004	**SP-2 (2-4)**	SM 2540G	502826		
50225466005	**SP-3 (0-2)**	SM 2540G	502826		
50225466006	**SP-3 (2-4)**	SM 2540G	502836		
50225466007	**SP-4 (0-2)**	SM 2540G	502836		
50225466008	**SP-4 (2-4)**	SM 2540G	502836		
50225466009	**SP-4 (6-8)**	SM 2540G	502836		
50225466010	**SP-4 (8-9)**	SM 2540G	502836		
50225466011	**SP-4 (9-10.5)**	SM 2540G	502836		
50225466012	**SP-5 (0-2)**	SM 2540G	502836		
50225466013	**SP-5 (0-2) DUP**	SM 2540G	502836		
50225466014	**SP-5 (2-4)**	SM 2540G	502836		
50225466015	**SP-5 (9-11)**	SM 2540G	502836		
50225466016	**SP-5 (11-13)**	SM 2540G	502836		
50225466017	**SP-5 (11-13) DUP**	SM 2540G	502836		
50225466018	**SP-5 (6-8)**	SM 2540G	502836		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2276474

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BCA	Report To: JTEUSCHLER	Attention: SAME
Address:	Copy To: LMinniehs	Company Name:
		Address:
Email To: JTEUSCHLER	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: 216 College	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: 19-146	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	SVOCs + SIM	14 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-1 (3-5)					5-16-19	1240		1	1									✓	✓		5022546 001
2	SP-1 (5-7)						1245		1	1									✓	✓		002
3	SP-2 (0-2)						1000		1	1									✓	✓		003
4	SP-2 (2-4)						1005		1	1									✓	✓		004
5	SP-3 (0-2)						1025		3	3									✓	✓		MS/MSD 005
6	SP-3 (2-4)						1030		1	1									✓	✓		006
7	SP-4 (0-2)						1215		1	1									✓	✓		007
8	SP-4 (2-4)						1220		1	1									✓	✓		008
9	SP-4 (6-8)						1200		1	1									✓			009
10	SP-4 (8-9)						1205		1	1									✓			016
11	SP-4 (9-10.5)						1210		1	1									✓			011
12																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Rod Manny/BCA	5.17.19	1801		5/17/19	1801	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rod Manny

SIGNATURE of SAMPLER: Rod Manny

DATE Signed (MM/DD/YY): 05/17/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

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CHAIN-OF-CUSTODY / Analytical Request Document

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2276473

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BCA	Report To: SAME	Attention: SAME
Address:	Copy To:	Company Name:
		Address:
Email To: JTEUSCHER	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: 216 College	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: 19-146	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: SVOCs + SIM	14 metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-5(0-2)					5/16/19	1140		1	1									1		012
2	SP-5(0-2) DUP						1146		1	1									1		013
3	SP-5(2-4)						1145		1	1									1		014
4	SP-5(9-11)						1130		1	1								1			015
5	SP-5(11-13)						1135		1	1								1			016
6	SP-5(11-13) DUP						1135		1	1								1			017
7	SP-5(6-8)						1137		1	1								1			018
8																					
9																					
10																					
11																					
12																					

50225466
Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Rod Manny/BCA	5.17.19	1801		5/17/19	1801	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rod Manny

SIGNATURE of SAMPLER: Rod Manny

DATE Signed (MM/DD/YY): 05/17/19

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SAMPLE CONDITION UPON RECEIPT FORM

Pace Analytical

Project #: 50225466

Date/Time and Initials of person examining contents: LWG 5/17/19 1820

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☒ Yes ☐ No ☐ N/A

Cooler Temperature: 1.5 / 1.5 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			✓
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:			✓
Short Hold Time Analysis (<72hr)?: Analysis:		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested:		✓	Headspace in VOA Vials (>6mm):			✓
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	

Comments:

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 2

COC ID# 2276474

Project # 50225466

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk Kit R	DI	Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1																				SL			
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

3 5/20/19 MM3

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50225466

CLIENT: BCA

COC PAGE 1 of 1
COC ID# 22764 73

Project # 50225466

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk Kit R	Matrix SI/W (Soil/Water) Aqueous Li	pH <2	pH >9	pH>12
1							1											52			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial
DG9H	40mL HCL amber voa vial
DG9M	40mL MeOH clear vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
VG9H	40mL HCL clear vial
VG9T	40mL Na Thio. clear vial
VG9U	40mL unpreserved clear vial
VGFX	40mL w/hexane wipe vial
VSG	Headspace septa vial & HCL
WGKU	8oz unpreserved clear jar
WGFU	4oz clear soil jar
JGFU	4oz unpreserved amber wide

AG0U	100mL unpreserved amber glass
AG1H	1 liter HCL amber glass
AG1S	1 liter H2SO4 amber glass
AG1T	1 liter Na Thiosulfate amber glass
AG1U	1liter unpreserved amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpreserved amber glass
AG3S	250mL H2SO4 glass amber
AG3U	250mL unpreserved amber glass
BG1H	1 liter HCL clear glass
BG1S	1 liter H2SO4 clear glass
BG1T	1 liter Na Thiosulfate clear glass
BG1U	1 liter unpreserved glass
BG3H	250mL HCl Clear Glass
BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic
BP2O	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 11, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 S. College / 19-146
Pace Project No.: 50227372

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants
Mr. Dan Rust, BCA Environmental Consultants, LLC

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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(317)228-3100

SAMPLE SUMMARY

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50227372001	**SP-3 (4-6)**	Solid	05/16/19 10:33	06/07/19 16:45
50227372002	**SP-3 (6-8)**	Solid	05/16/19 10:35	06/07/19 16:45
50227372003	**SP-3 (8-10.5)**	Solid	05/16/19 10:40	06/07/19 16:45
50227372004	**SP-4 (4-6)**	Solid	05/16/19 12:25	06/07/19 16:45
50227372005	**SP-4 (6-8)**	Solid	05/16/19 12:00	06/07/19 16:45
50227372006	**SP-4 (8-10.5)**	Solid	05/16/19 12:07	06/07/19 16:45

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50227372001	**SP-3 (4-6)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372002	**SP-3 (6-8)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372003	**SP-3 (8-10.5)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372004	**SP-4 (4-6)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372005	**SP-4 (6-8)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372006	**SP-4 (8-10.5)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I

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SUMMARY OF DETECTION

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50227372001	**SP-3 (4-6)**					
EPA 6010	Arsenic	8.4	mg/kg	1.2	06/10/19 09:17	
SM 2540G	Percent Moisture	20.1	%	0.10	06/10/19 09:05	H3
50227372002	**SP-3 (6-8)**					
EPA 6010	Arsenic	4.2	mg/kg	1.2	06/10/19 09:19	
SM 2540G	Percent Moisture	18.5	%	0.10	06/10/19 09:05	H3
50227372003	**SP-3 (8-10.5)**					
EPA 6010	Arsenic	5.2	mg/kg	1.1	06/10/19 09:21	
SM 2540G	Percent Moisture	17.7	%	0.10	06/10/19 09:06	H3
50227372004	**SP-4 (4-6)**					
EPA 6010	Arsenic	15.1	mg/kg	1.3	06/10/19 09:23	
SM 2540G	Percent Moisture	24.6	%	0.10	06/10/19 09:06	H3
50227372005	**SP-4 (6-8)**					
EPA 6010	Arsenic	8.6	mg/kg	1.2	06/10/19 09:26	
SM 2540G	Percent Moisture	21.4	%	0.10	06/10/19 09:06	H3
50227372006	**SP-4 (8-10.5)**					
EPA 6010	Arsenic	4.2	mg/kg	1.2	06/10/19 09:28	
SM 2540G	Percent Moisture	22.0	%	0.10	06/10/19 09:06	H3

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (4-6) **Lab ID: 50227372001** Collected: 05/16/19 10:33 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.08 g Final Volume/Weight: 50 mL								
Arsenic	**8.4**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:17	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.1**	%	0.10	0.10	1		06/10/19 09:05		H3

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (6-8) **Lab ID: 50227372002** Collected: 05/16/19 10:35 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.063 g Final Volume/Weight: 50 mL								
Arsenic	**4.2**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:19	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**18.5**	%	0.10	0.10	1		06/10/19 09:05		H3

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (8-10.5) **Lab ID: 50227372003** Collected: 05/16/19 10:40 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.068 g Final Volume/Weight: 50 mL								
Arsenic	**5.2**	mg/kg	1.1	0.23	1	06/08/19 09:50	06/10/19 09:21	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**17.7**	%	0.10	0.10	1		06/10/19 09:06		H3

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (4-6) **Lab ID: 50227372004** Collected: 05/16/19 12:25 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.053 g Final Volume/Weight: 50 mL								
Arsenic	**15.1**	mg/kg	1.3	0.25	1	06/08/19 09:50	06/10/19 09:23	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**24.6**	%	0.10	0.10	1		06/10/19 09:06		H3

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (6-8) **Lab ID: 50227372005** Collected: 05/16/19 12:00 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.075 g Final Volume/Weight: 50 mL								
Arsenic	**8.6**	mg/kg	1.2	0.24	1	06/08/19 09:50	06/10/19 09:26	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**21.4**	%	0.10	0.10	1		06/10/19 09:06		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (8-10.5) **Lab ID: 50227372006** Collected: 05/16/19 12:07 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.105 g Final Volume/Weight: 50 mL								
Arsenic	**4.2**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:28	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**22.0**	%	0.10	0.10	1		06/10/19 09:06		H3

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QUALITY CONTROL DATA

Project: 216 S. College / 19-146
Pace Project No.: 50227372

QC Batch: 505182 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

METHOD BLANK: 2331140 Matrix: Solid
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.20	1.0	0.20	06/10/19 08:48	

LABORATORY CONTROL SAMPLE: 2331141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2331142 2331143

Parameter	Units	50226732001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.1	23.4	23.1	31.4	24.6	126	97	75-125	25	20	M0,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 216 S. College / 19-146
Pace Project No.: 50227372

QC Batch: 505358 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

SAMPLE DUPLICATE: 2332191

Parameter	Units	50227372001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.1	20.2	0	5	

SAMPLE DUPLICATE: 2332192

Parameter	Units	50227356001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	18.1	2	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50227372001	**SP-3 (4-6)**	EPA 3050	505182	EPA 6010	505342
50227372002	**SP-3 (6-8)**	EPA 3050	505182	EPA 6010	505342
50227372003	**SP-3 (8-10.5)**	EPA 3050	505182	EPA 6010	505342
50227372004	**SP-4 (4-6)**	EPA 3050	505182	EPA 6010	505342
50227372005	**SP-4 (6-8)**	EPA 3050	505182	EPA 6010	505342
50227372006	**SP-4 (8-10.5)**	EPA 3050	505182	EPA 6010	505342
50227372001	**SP-3 (4-6)**	SM 2540G	505358		
50227372002	**SP-3 (6-8)**	SM 2540G	505358		
50227372003	**SP-3 (8-10.5)**	SM 2540G	505358		
50227372004	**SP-4 (4-6)**	SM 2540G	505358		
50227372005	**SP-4 (6-8)**	SM 2540G	505358		
50227372006	**SP-4 (8-10.5)**	SM 2540G	505358		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1935853

Section A Required Client Information:

Company: BCA
Address:
Email To: JTEUSCHLER@BCA
Phone: 317-578-4233 Fax: Consultants.com
Requested Due Date/TAT: 24-DAY JT

Section B Required Project Information:

Report To: J. TEUSCHLER
Copy To:
Purchase Order No.:
Project Name: 216 S. College
Project Number: 19-146

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IN

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Arsenic	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-3 (4-6)	SL	G			5-16-19	1033		1	1								1		001
2	SP-3 (6-8)	SL	G			5-16-19	1035		1	1								1		002
3	SP-3 (8-10.5)	SL	G			5-16-19	1040		1	1								1		003
4																				
5	SP-4 (4-6)	SL	G			5-16-19	1225		1	1								1		004
6	SP-4 (6-8)	SL	G			5-16-19	1200		1	1								1		005
7	SP-4 (8-10.5)	SL	G			5-16-19	1207		1	1								1		006
8																				
9																				
10																				
11																				
12																				

50227372

Matrix Codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		6-7-19	15:40		6-7-19	15:40	
		6-7-19	16:45		6/7/19	1645	1.5 Y N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JACOB TEUSCHLER
SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 6-7-19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50227372

Date/Time and Initials of person examining contents: LWG 1720 6/7/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ None ☐ Other _____ LWG

Thermometer: 1 2 3 4 5 6 A B C D E F **Ice Type:** ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☑ N/A

Cooler Temperature: 1.3/1.5 Ice Visible in Sample Containers?: ☐ Yes ☑ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☑ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			✓
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:			✓
Short Hold Time Analysis (<72hr)?: Analysis:		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested: 2day	✓		Headspace in VOA Vials (>6mm):			✓
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	

Comments:

Sample Container Count

WO# : 50227372

50227372

CLIENT: BCA

COC PAGE 1 of 1

COC ID# 1935853

Project # 50227372

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bu Kit R	Matrix Si (Soil/Wat Aqueous	pH <2	pH >9	pH>12
1							1											5L			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40rnL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

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Lab Solutions for AnalyticalTesting & Issues

Bruce Carter and Associates
7202 E. 87th St., Ste. 110
Indianapolis, IN 46256

May 29, 2019

Client Project Name: 19-146 / Bloomington, IN

Dear Client,

We are pleased to provide the attached analytical report(s) for the samples received May 20, 2019. All testing was performed as requested on the enclosed chain of custody. All methods cited were executed in full compliance with local, state, and EPA regulations. All control data met QA/QC criteria as outlined in EPA methodology. Please review the flag sections for any and all deviations from the Quality Control Data and Procedures.

LSAI Labs utilized the following EPA methodologies to perform the volatile organics (VOCs) assay in ground water. Preservation technique referenced in table 4-1 of SW-846; sample preparation via 5030B; and sample analysis using GC/MS via 8260B.

Please contact me with any questions, concerns, or comments regarding the attached analytical report.

Thank you for your business. We are committed to providing Lab Solutions and Services for your upcoming Analytical Testing needs and Issues.

Sincerely,

Pramod K. Sethia

Laboratory Manager
LSAI Labs, LLC

UDOH Lab Code: IN018112018-8

LSAI Labs, LLC
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FLAGS & DEFINITIONS

FLAGS & QUALIFIERS

B	Analyte detected in the blank
C	Result confirmed by reanalysis
DF	Dilution Factor: represents factor applied to sample aliquot due to a dilution 1 - reported result is a 2X dilution; 2 - reported result is a 5X dilution; 3 – reported result is a 10X dilution; 4 – reported result is a 20X dilution; 5 – reported result is a 25X dilution; 6 – reported result is a 50X dilution; 7 – reported result is a 100X dilution; 8 – reported result is a 250X dilution; 9 – reported result is a 500X dilution; 10 – reported result is a 1000X dilution; 11 – reported result is a 2500X dilution .
E	Concentration exceeds calibration range
J	Estimated value J1. ≥ Method Detection Limit (MDL) & < Limit of Quantitation (LOQ) or Reporting Limit (RL) J2. Estimated due to presence of interference
U	Analyzed for but not detected
N	Indicates presumptive evidence of a compound
P	Post-analysis pH measurement indicates insufficient VOA sample preservation.
R	Recovery outside control limits
R1	RPD value outside control limits
Rd	Duplicate analysis outside control limits

DEFINITIONS

RL: Reporting Limit
BMQL: Below Minimum Quantitation Level
LCS: Laboratory Control Sample
LCS (D): Laboratory Control Sample Duplicate
MS: Matrix Spike
MSD: Matrix Spike Duplicate
DUP: Sample Duplicate
RPD: Relative Percent Difference
ND: none detected
MPN: Most Probable Number
ppm: parts per million
ppb: parts per billion
TNI: The NELAC Institute
S: Surrogate

Note: A critical step involved in environmental analysis is the sample collection. It is required by the client that the submitted sample is truly representative of the replicate(s) and/or bulk material.

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	SP-1	Sample Collection Date/Time:	5/17/2019	11:45
LSAI Sample ID:	19-2876	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	12:43
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	< 5.0	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	< 1.0	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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Lab Solutions for AnalyticalTesting & Issues

LSAI SAMPLE ID continued 19-2876

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	< 1.0	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	< 1.0	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2876

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	96.5%	
1,2-Dichloroethane-d4	91.7%	
Toluene-d8	90.8%	
4-bromofluorobenzene	85.1%	

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	SP-3	Sample Collection Date/Time:	5/17/2019	13:10
LSAI Sample ID:	19-2877	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	13:03
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	< 5.0	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	< 1.0	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2877

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	< 1.0	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	< 1.0	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	11.4	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2877

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	96.3%	
1,2-Dichloroethane-d4	94.2%	
Toluene-d8	91.0%	
4-bromofluorobenzene	84.0%	

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	SP-4	Sample Collection Date/Time:	5/17/2019	13:45
LSAI Sample ID:	19-2878	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	13:22
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	183	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	5.8	1.0	
sec-Butylbenzene	4.4	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2878

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	244	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	164	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	35.4	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	12.4	1.0	
2-Methylnaphthalene	35.2	1.0	
Naphthalene	9.4	1.0	
n-Propylbenzene	43.3	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2878

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	41.2	1.0	
1,3,5-Trimethylbenzene	16.7	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	72.6	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	72.6	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	97.3%	
1,2-Dichloroethane-d4	88.7%	
Toluene-d8	94.9%	
4-bromofluorobenzene	86.6%	

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	SP-5	Sample Collection Date/Time:	5/17/2019	10:23
LSAI Sample ID:	19-2879	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	13:41
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	34.0	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	1.5	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2879

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	6.4	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	4.0	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2879

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	100.0%	
1,2-Dichloroethane-d4	96.7%	
Toluene-d8	93.6%	
4-bromofluorobenzene	85.9%	

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CERTIFICATE OF ANALYSIS

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	SP-5 (Dup)	Sample Collection Date/Time:	5/17/2019	10:23
LSAI Sample ID:	19-2880	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	14:00
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	36.1	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	1.4	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2880

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	6.3	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	3.7	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2880

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	99.7%	
1,2-Dichloroethane-d4	96.5%	
Toluene-d8	91.8%	
4-bromofluorobenzene	85.4%	

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CERTIFICATE OF ANALYSIS

Lab Solutions for AnalyticalTesting & Issues

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	EB-1	Sample Collection Date/Time:	5/17/2019	14:50
LSAI Sample ID:	19-2881	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	14:19
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	< 5.0	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	< 1.0	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2881

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	< 1.0	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	< 1.0	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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LSAI SAMPLE ID continued 19-2881

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	101%	
1,2-Dichloroethane-d4	97.1%	
Toluene-d8	90.5%	
4-bromofluorobenzene	84.2%	

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CERTIFICATE OF ANALYSIS

Lab Solutions for AnalyticalTesting & Issues

Sample Submission Description

Customer Name:	BCA	Project ID:	19-146	
Customer Address:	7202 E 87th St. STE 110	Site Name:	216 College	
	Indianapolis	Site Location:	Bloomington	
	IN 46256	Sample Collected By:	Brad Manny	
Sample Field ID:	TB-1	Sample Collection Date/Time:		
LSAI Sample ID:	19-2882	Sample Receipt Date/Time:	5/20/2019	12:41

Sample Analysis Description

Analytical Method:	EPA 8260B	Analytical Batch:	28MAY2019	
Preparation Method:	EPA 5030B	Analysis Date/Time:	5/28/2019	14:38
Sample Matrix:	Ground Water	Analyst:	PS	

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Acetone	< 120	120	
Acrolein	< 1.0	1.0	
Acrylonitrile	< 1.0	1.0	
Benzene	< 5.0	5.0	
Bromobenzene	< 1.0	1.0	
Bromochloromethane	< 1.0	1.0	
Bromodichloromethane	< 1.0	1.0	
Bromoform	< 5.0	5.0	
Bromomethane	< 5.0	5.0	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 1.0	1.0	
sec-Butylbenzene	< 1.0	1.0	
tert-Butylbenzene	< 1.0	1.0	
Carbon Disulfide	< 5.0	5.0	
Carbon Tetrachloride	< 1.0	1.0	
Chlorobenzene	< 1.0	1.0	
Chloroethane (Ethyl Chloride)	< 5.0	5.0	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 1.0	1.0	
Chloromethane	< 1.0	1.0	
2-Chlorotoluene	< 1.0	1.0	
4-Chlorotoluene	< 1.0	1.0	
1,2-Dibromo-3-chloropropane	< 5.0	5.0	
Dibromochloromethane	< 1.0	1.0	
1,2-Dibromoethane (EDB)	< 1.0	1.0	
Dibromomethane	< 1.0	1.0	
1,2-Dichlorobenzene	< 1.0	1.0	

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LSAI SAMPLE ID continued 19-2882

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
1,3-Dichlorobenzene	< 1.0	1.0	
1,4-Dichlorobenzene	< 1.0	1.0	
trans-1,4-Dichloro-2-butene	< 5.0	5.0	
Dichlorodifluoromethane	< 1.0	1.0	
1,1-Dichloroethane	< 1.0	1.0	
1,2-Dichloroethane	< 1.0	1.0	
1,1-Dichloroethene	< 1.0	1.0	
cis-1,2-Dichloroethene	< 1.0	1.0	
trans-1,2-Dichloroethene	< 5.0	5.0	
1,2-Dichloropropane	< 5.0	5.0	
1,3-Dichloropropane	< 1.0	1.0	
2,2-Dichloropropane	< 1.0	1.0	
1,1-Dichloropropene	< 5.0	5.0	
1,3-Dichloropropene	< 5.0	5.0	
Ethylbenzene	< 5.0	5.0	
Ethylmethacrylate	< 1.0	1.0	
Hexachloro-1,3-butadiene	< 5.0	5.0	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 5.0	5.0	
Isopropylbenzene (Cumene)	< 1.0	1.0	
p-Isopropyltoluene	< 1.0	1.0	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 1.0	1.0	
Methyl tert-butyl ether (MTBE)	< 5.0	5.0	
1-Methylnaphthalene	< 1.0	1.0	
2-Methylnaphthalene	< 1.0	1.0	
Naphthalene	< 1.0	1.0	
n-Propylbenzene	< 1.0	1.0	
Styrene	< 1.0	1.0	
1,1,1,2-Tetrachloroethane	< 1.0	1.0	
1,1,2,2-Tetrachloroethane	< 1.0	1.0	
Tetrachloroethene	< 1.0	1.0	
Toluene	< 5.0	5.0	
1,2,3-Trichlorobenzene	< 1.0	1.0	
1,2,4-Trichlorobenzene	< 1.0	1.0	
1,1,1-Trichloroethane	< 5.0	5.0	
1,1,2-Trichloroethane	< 1.0	1.0	
Trichloroethene	< 5.0	5.0	

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Lab Solutions for AnalyticalTesting & Issues

LSAI SAMPLE ID continued 19-2882

Analyte	Results (µg/L)	Reporting Limit (µg/L)	Flags
Trichlorofluoromethane	< 5.0	5.0	
1,2,3-Trichloropropane	< 5.0	5.0	
1,2,4-Trimethylbenzene	< 1.0	1.0	
1,3,5-Trimethylbenzene	< 1.0	1.0	
Vinyl acetate	< 10	10	
Vinyl chloride	< 1.0	1.0	
Xylene M&P	< 5.0	5.0	
Xylene Ortho	< 5.0	5.0	
Total Xylenes	< 10	10	

QA/QC

Surrogates	% Recovery	Flags
Dibromofluoromethane	101%	
1,2-Dichloroethane-d4	101%	
Toluene-d8	89.5%	
4-bromofluorobenzene	84.6%	

LSAI LABS, LLC Chain of Custody Record

8444 Castlewood Drive, Suite 800, Indianapolis, IN 46250/ T:(317) 284 1033/ F: (317) 284 1129/ admin@lsailabs.com

Client Information:	
Company Name	BCA
Contact Name	J. TEUSCHLER
Address	7202 E 87th
City	Indianapolis
State & Zip	INDIANA
Phone Number	317-578-4233
Email	JTEUSCHLER@BCAconsultants.com
Project ID	19-146
Site Name	216 College
Site Location	Bloomington

Billing Information: ELTF / Non-ELTF

Other Comments:

TAT: (Standard) / 7 business days)

Rush: 1 day / 2 days / 3 days

Rush TAT will incur a surcharge

Sampler's Name: Rod Mumy

Sampler's Signature: Rod Mumy

Required QC Level: Level II / III / IV

Shipping Method: (Drop-off) / Picked / UPS / FedEx / Airborne / Other:

LSAI Quote#

LSAI PO#

Sample Integrity Notes
- Samples Received on Ice: Yes/No
- Cooler Temp: 2.9 °C
- Samples Intact? Yes / No
- Vials free of head-space: Yes/No/N/A
- Other comments:

Matrix Code

DW =	Drinking Water
WW =	Waste Wateer
GW =	Ground Water
SO =	Soil
EF =	Effluent
SOL =	Solid
Other =	

Which Regulations Apply:
NPDES / RECAP / RISC / RCG / POTW / STATE / USDA / FDA / Other

Sample ID / Description		Collection Information				Container		Preservative	Requested Tests								
Client ID	LSAI ID	Date	Time	Grab / Composite	Matrix	Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO_3, H_2SO_4, NaOH, $NaHSO_4$	VOC's								
SP-1	19-2876	5-17-19	1145	G	GW	9	V	HCl	X	MS/MSD							
SP-3	19-2877	5-17-19	1310	G	GW	2	V	HCl	X								
SP-4	19-2878	5-17-19	1345	G	GW	3	V	HCl	X								
SP-5	19-2879	5-17-19	1023	G	GW	3	V	HCl	X								
SP-5 (DUP	19-2880	5-17-19	1023	G	GW	3	V	HCl	X								
EB-1	19-2881	5-17-19	1450	G	GW	3	V	HCl	X								
TB-1	19-2882					3	V		X								
MS	19-2883																
MSD	19-2884																

Comments:

	Relinquished by	Date	Time		Received By	Date	Time	Comments:
1	Rod Mumy / BCA	5/20/19	1241		PKS	5/20/19	12:41	
2								
3								

LSAI LABORATORIES
Lab Solutions for AnalyticalTesting & Issues

SAMPLE CONDITION UPON RECEPTION

Customer: BCA COC Date 5/20/19 Project # 19-1416

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Customer ☐ LSAI ☐ Other _____
Tracking #: _____

Custody Seal on Cooler: ☐ Yes ☒ No Seal Intact: ☐ Yes ☐ No

Temperature 2.9°C Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process begun

Logged in by: (Date and Initial) LL 5/20/19		**Comments**
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Properly Filled Out	☒ Yes ☐ No ☐ N/A	
Chain of Custody Relinquished	☒ Yes ☐ No ☐ N/A	
Sampler Name and Signatory on COC	☒ Yes ☐ No ☐ N/A	
Adherence to Holding Times	☒ Yes ☐ No ☐ N/A	
Rush Turn Around Time Requested	☐ Yes ☒ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels Match COC	☒ Yes ☐ No ☐ N/A	
Sample Labels Legible	☒ Yes ☐ No ☐ N/A	
Samples Preserved Properly	☒ Yes ☐ No ☐ N/A	
Headspace in VOA vials (> pea size)	☐ Yes ☒ No ☐ N/A	
Trip Blank Present	☒ Yes ☐ No ☐ N/A	
Sufficient Volume for Requested Tests	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	

Deviations from above needing customer notification? ☐ Yes ☒ No

Description _____

_____

Person Contacted _____ Date/Time _____

QF-4.9.1 Enacted ☐ Yes ☐ No

LSAI LABORATORIES
Lab Solutions for Analytical Testing & Issues

Level III QA/QC Checklist

Analytical Method	8260B
Extraction Method (If applicable)	5030B
LSAI Batch I.D.	28MAY2019
Sequence Log	✓
Reporting Limits	✓
Initial Calibration Data:	
Calibration Curve	VOC-DA-23MAY2019
Initial Calibration Raw Data	✓
Initial Calibration RF Summary	✓
Initial Calibration Second Source Check	✓
Tune Data	✓
Continuing Calibration Verification (CCV) Data:	
CCV Raw Data	✓
CCV Summary	✓
Tune Data	✓
Quality Control Data:	
Method Blank (MBLANK)	✓
Laboratory Control Standard (LCS)	✓
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	✓

The contents of this report packet have been reviewed for completeness and accuracy regarding LSAI & methodology requirements.

Signature of Approval: [signature]

2019 May 28 1102 Sequence Log .LOG

Starting sequence Tue May 28 11:02:34 2019

Instrument Name: VOA MSD
Sequence File: C:\msdchem\1\sequence\2019_MAY_28_1801.S
Comment:
Operator: PS
Data Path: C:\MSDCHEM\1\DATA\28MAY2019\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	CCV-1	8260B	CCV-1
2)	Sample	1	CCV-1A	8260B	CCV-1A
3)	Sample	2	SP-1	8260B	SP-1
4)	Sample	3	MB-1	8260B	MB-1
5)	Sample	4	19-2876	8260B	19-2876
6)	Sample	5	19-2877	8260B	19-2877
7)	Sample	6	19-2878	8260B	19-2878
8)	Sample	7	19-2879	8260B	19-2879
9)	Sample	8	19-2880	8260B	19-2880
10)	Sample	9	19-2881	8260B	19-2881
11)	Sample	10	19-2882	8260B	19-2882
12)	Sample	11	19-2883	8260B	19-2883
13)	Sample	12	19-2884	8260B	19-2884
14)	Sample	13	19-2790	8260B	19-2790
15)	Sample	13	19-2790-MS		
	Datafile		19-2790-MS		
	Method		8260B		
16)	Sample	13	19-2790-MSD		
	Datafile		19-2790-MSD		
	Method		8260B		
17)	Sample	14	19-2791	8260B	19-2791
18)	Sample	15	19-2792	8260B	19-2792
19)	Sample	15	19-2792X50		
	Datafile		19-2792X50		
	Method		8260B		
20)	Sample	16	19-2793	8260B	19-2793
21)	Sample	17	19-2794	8260B	19-2794
22)	Sample	17	19-2794X10		
	Datafile		19-2794X10		
	Method		8260B		
23)	Sample	18	19-2795	8260B	19-2795
24)	Sample	19	LCS-2	8260B	LCS-2
25)	Sample	19	LCS-2A	8260B	LCS-2A
26)	Sample	88	SB-2	8260B	SB-2
27)	Sample	20	MB-2	8260B	MB-2
28)	Sample	21	19-2796	8260B	19-2796
29)	Sample	22	19-2797	8260B	19-2797
30)	Sample	22	19-2797X10		
	Datafile		19-2797X10		
	Method		8260B		
31)	Sample	23	19-2798	8260B	19-2798
32)	Sample	24	19-2799	8260B	19-2799
33)	Sample	24	19-2799X10		
	Datafile		19-2799X10		
	Method		8260B		
34)	Sample	25	19-2800	8260B	19-2800
35)	Sample	25	19-2800X100		
	Datafile		19-2800X100		
	Method		8260B		
36)	Sample	26	19-2801	8260B	19-2801
37)	Sample	27	19-2802	8260B	19-2802
38)	Sample	28	19-2803	8260B	19-2803
39)	Sample	29	19-2804	8260B	19-2804
40)	Sample	30	19-2805	8260B	19-2805
41)	Sample	31	19-2806	8260B	19-2806
42)	Sample	32	19-2807	8260B	19-2807
43)	Sample	33	19-2808	8260B	19-2808
44)	Sample	33	19-2808X10		
	Datafile		19-2808X10		
	Method		8260B		
45)	Sample	34	19-2809	8260B	19-2809
46)	Sample	35	19-2819	8260B	19-2819
47)	Sample	35	19-2819X10		
	Datafile		19-2819X10		
	Method		8260B		
48)	Sample	36	CCV-3	8260B	CCV-3
49)	Sample	36	CCV-3A	8260B	CCV-3A
50)	Sample	2	SP-3	8260B	SP-3

```
 51) Sample        37  MB-3      8260B     MB-3
 52) Sample        38  19-2820   8260B     19-2820
 53) Sample        38  19-2820-MS
     Datafile          19-2820-MS
     Method            8260B
 54) Sample        38  19-2820-MSD
     Datafile          19-2820-MSD
     Method            8260B
 55) Sample        39  19-2821   8260B     19-2821
 56) Sample        40  19-2822   8260B     19-2822
 57) Sample        41  19-2823   8260B     19-2823
 58) Sample        42  19-2824   8260B     19-2824
 59) Sample        43  19-2825   8260B     19-2825
 60) Sample        44  19-2826   8260B     19-2826
 61) Sample        45  19-2827   8260B     19-2827
 62) Sample        46  19-2828   8260B     19-2828
 63) Sample        47  19-2829   8260B     19-2829
Sequence Table edit performed Wed May 29 07:56:09 2019
 64) Sample        48  19-2830   8260B     19-2830
 65) Sample        49  19-2831   8260B     19-2831
 66) Sample        50  19-2832   8260B     19-2832
 67) Sample        51  19-2833   8260B     19-2833
 68) Sample        52  19-2834   8260B     19-2834
 69) Sample        53  19-2835   8260B     19-2835
Sequence Table edit performed Wed May 29 10:05:33 2019
 70) Sample        54  19-2836   8260B     19-2836
 71) Sample        55  19-2837   8260B     19-2837
 72) Sample        56  CCV-4     8260B     CCV-4
 73) Sample        56  CCV-4A    8260B     CCV-4A
 74) Sample         2  SP-4      8260B     SP-4
 75) Sample        57  MB-4      8260B     MB-4
 76) Sample        58  19-2838   8260B     19-2838
 77) Sample        59  19-2839   8260B     19-2839
 78) Sample        60  19-2840   8260B     19-2840
 79) Sample        61  19-2841   8260B     19-2841
 80) Sample        63  19-2842   8260B     19-2842
 81) Sample        63  19-2842x10
     Datafile          19-2842x10
     Method            8260B
 82) Sample        11  19-2883-ms
     Datafile          19-2883-ms
     Method            8260B
 83) Sample        12  19-2884-msd
     Datafile          19-2884-msd
     Method            8260B
 84) Sample        64  19-2843   8260B     19-2843
 85) Sample        65  19-2844   8260B     19-2844
 86) Sample        66  19-2845   8260B     19-2845
 87) Sample        67  19-2846   8260B     19-2846
 88) Sample         1  19-2884-msd-1
     Datafile          19-2884-msd-1
     Method            8260B
 89) Sample        69  19-2848   8260B     19-2848
 90) Sample        70  19-2849   8260B     19-2849
 91) Sample        71  19-2850   8260B     19-2850
 92) Sample        72  19-2851   8260B     19-2851
 93) Sample        73  19-2852   8260B     19-2852

Sequence paused Wed May 29 17:56:46 2019

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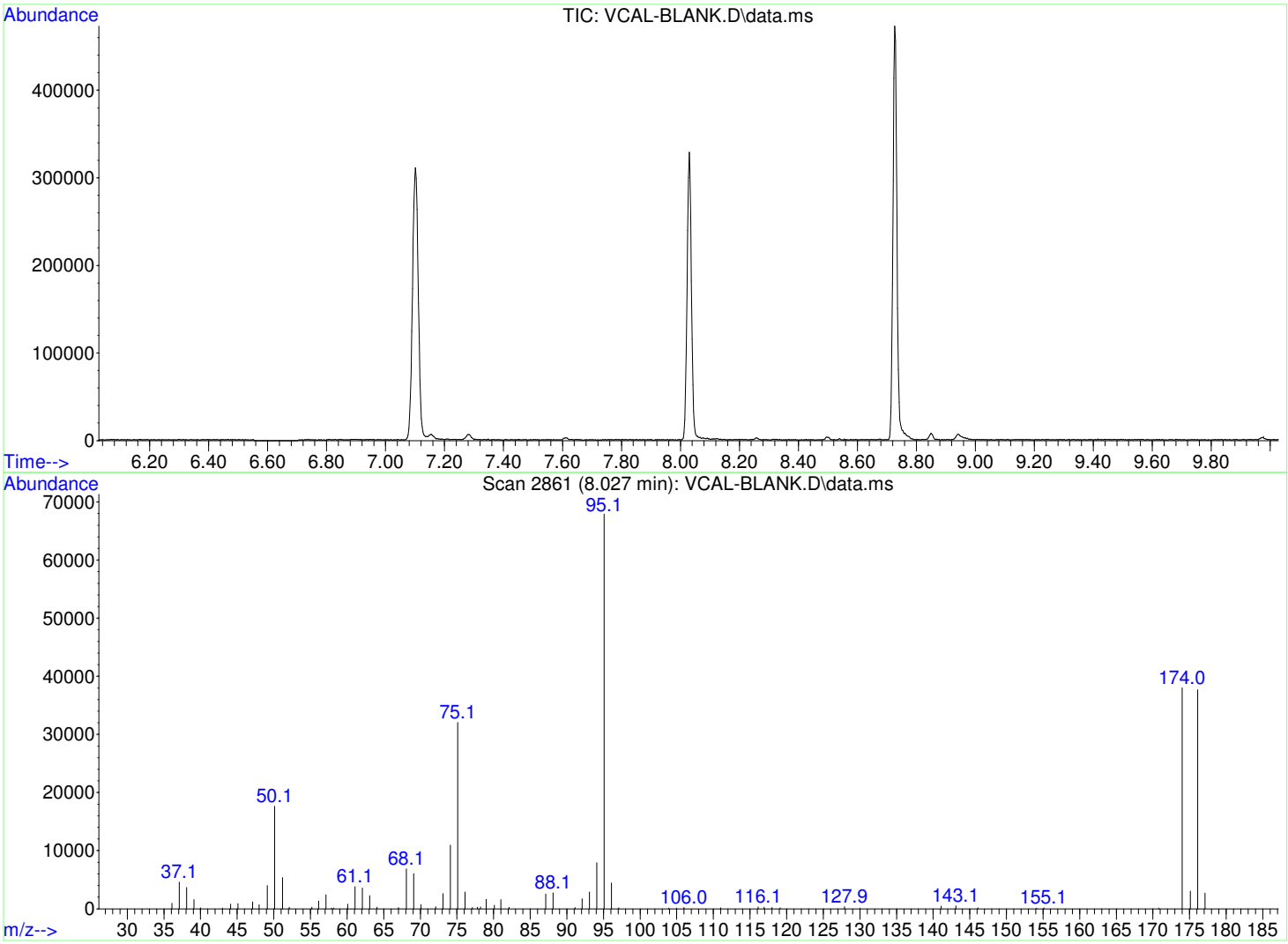
Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Title : VOC
Last Update : Fri May 24 11:00:55 2019



Spectrum Information: Scan 2861

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	17648	PASS
75	95	30	60	47.1	32032	PASS
95	95	100	100	100.0	67944	PASS
96	95	5	9	6.5	4436	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.0	38016	PASS
175	174	5	9	7.9	3013	PASS
176	174	95	101	99.1	37664	PASS
177	176	5	9	7.2	2719	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

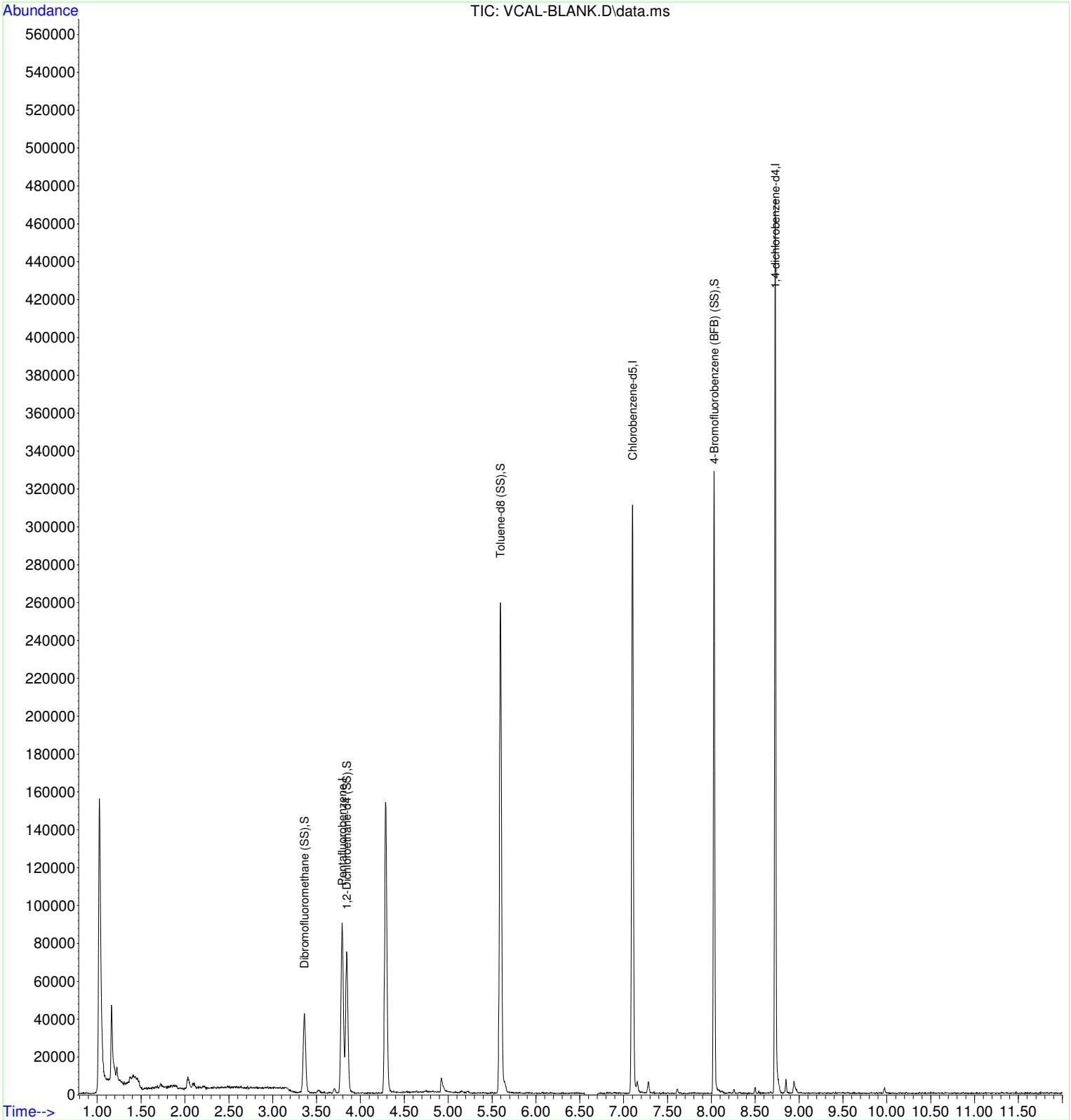
Quant Time: May 24 11:02:39 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 11:00:55 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.793	168	51244	50.00	ppb	0.00
42) Chlorobenzene-d5	7.102	117	119355	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.729	152	63427	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.362	111	25142	50.75	ppb	0.00
Spiked Amount 50.000			Recovery = 101.50%			
32) 1,2-Dichloroethane-d4 ...	3.845	102	7329	54.64	ppb	0.00
Spiked Amount 50.000			Recovery = 109.28%			
44) Toluene-d8 (SS)	5.597	98	147258	46.03	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.06%			
63) 4-Bromofluorobenzene (...	8.031	174	43853	41.99	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.98%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : VCAL-BLANK.D
Acq On : 23 May 2019 3:55 pm
Operator : DJD
Sample : VCAL-BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 11:02:39 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 11:00:55 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	53143	50.00	ppb		0.01
42) Chlorobenzene-d5	7.102	117	110655	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	62834m	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.363	111	24829	49.80	ppb		0.00
Spiked Amount 50.000			Recovery = 99.60%				
32) 1,2-Dichloroethane-d4 ...	3.847	102	6775	55.37	ppb		0.00
Spiked Amount 50.000			Recovery = 110.74%				
44) Toluene-d8 (SS)	5.598	98	133612	51.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.88%				
63) 4-Bromofluorobenzene (...	8.033	174	43649m	53.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.86%				
Target Compounds							Qvalue
3) Chloromethane	1.204	50	5328	1.69	ppb	#	49
4) Vinyl Chloride	1.227	62	6397	4.08	ppb	#	100
5) Bromomethane	1.374	94	917m	2.11	ppb		
6) Chloroethane	1.411	64	441m	1.28	ppb		
7) Trichlorofluoromethane	1.462	101	165m	1.18	ppb		
8) Carbon disulfide	1.746	76	252m	1.46	ppb		
9) 1,1-Dichloroethene	1.726	96	420m	5.18	ppb		
12) Methylene Chloride	2.043	84	591m	2.66	ppb		
13) Acetone	2.096	58	419m	5.34	ppb		
14) trans-1,2-Dichloroethene	2.128	61	465m	1.37	ppb		
17) Chloroprene (2-Chloro-...	2.513	53	939m	1.46	ppb		
18) 1,1-Dichloroethane	2.533	63	613m	1.03	ppb		
19) Acrylonitrile	2.513	53	939m	1.46	ppb		
22) 2,2-Dichloropropane	3.044	77	394m	1.75	ppb		
24) Chloroform	3.200	83	993m	1.48	ppb		
25) Carbon tetrachloride	3.293	117	468m	1.18	ppb		
26) 1,1,1-Trichloroethane	3.366	97	751m	1.30	ppb		
28) 1,1-Dichloropropene	3.472	75	531m	1.39	ppb		
29) 2-Butanone	3.522	43	3455	2.84	ppb	#	62
30) Benzene	3.705	78	3227	2.06	ppb	#	50
31) Methacrylonitrile*	3.791	41	1323m	1.06	ppb		
33) 1,2-Dichloroethane	3.909	62	1342	1.42	ppb	#	1
34) Trichloroethene	4.244	130	547m	1.34	ppb		
37) 1,2-Dichloropropane	4.747	63	988m	1.50	ppb		
39) Methyl methacrylate	5.008	41	1776	0.97	ppb	#	26
43) Toluene	5.647	91	4304	2.14	ppb	#	87
45) Tetrachloroethene	6.010	164	496m	1.37	ppb		
49) Ethyl methacrylate	6.283	69	1209	0.98	ppb	#	37
51) 1,3-Dichloropropane	6.500	76	1147m	1.00	ppb		
53) 2-Hexanone	6.912	43	2153	1.06	ppb	#	36
54) Chlorobenzene	7.115	112	1557m	1.06	ppb		
55) Ethyl benzene	7.155	91	4808	2.24	ppb	#	82
57) MP Xylene	7.284	91	7243m	4.26	ppb		
58) O Xylene	7.611	91	3374m	1.65	ppb		
59) Styrene	7.656	104	1767	1.06	ppb	#	32
61) Isopropylbenzene (Cumene)	7.845	105	3331m	1.70	ppb		
64) Bromobenzene	8.091	156	632m	1.20	ppb		
65) cis-1,4-Dichloro-2-butene	8.096	53	431m	1.01	ppb		
66) n-Propylbenzene	8.127	91	3136m	2.08	ppb		
68) 2-Chlorotoluene	8.218	91	2315	1.95	ppb	#	53
69) 1,2,3-Trichloropropane	8.263	75	1113	1.19	ppb	#	29
70) 1,3,5-Trimethylbenzene	8.260	105	3214	2.09	ppb	#	75

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

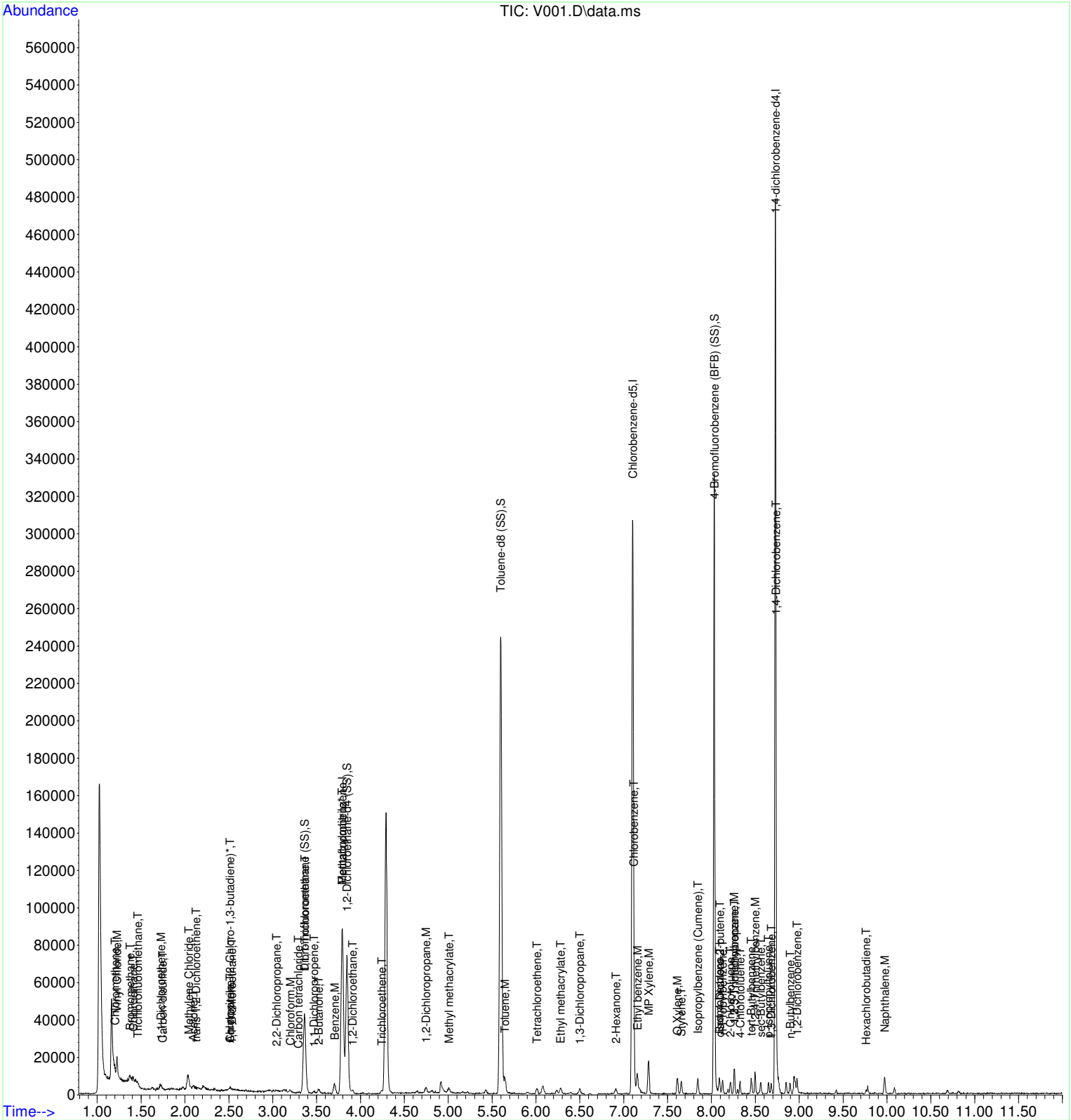
Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 4-Chlorotoluene	8.328	91	2170m	1.73	ppb		
73) tert-Butylbenzene	8.454	119	2207	1.73	ppb	#	79
75) 1,2,4-Trimethylbenzene	8.498	105	3518	2.04	ppb	#	71
76) sec-Butylbenzene	8.561	105	2794	2.02	ppb	#	59
77) p-Isopropyltoluene	8.651	119	2130	1.68	ppb	#	51
78) 1,3-Dichlorobenzene	8.682	146	1023m	1.07	ppb		
79) 1,4-Dichlorobenzene	8.735	146	1143m	1.15	ppb		
80) n-Butylbenzene	8.896	91	1948m	1.83	ppb		
81) 1,2-Dichlorobenzene	8.977	146	1329	1.11	ppb	#	28
83) Hexachlorobutadiene	9.762	225	333m	1.20	ppb		
85) Naphthalene	9.975	128	4490m	1.32	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V001.D
Acq On : 23 May 2019 10:03 pm
Operator : DJD
Sample : V001
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 24 10:09:40 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.792	168	47545	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	103064	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	58263	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.361	111	21966	55.03	ppb		0.00
Spiked Amount 50.000			Recovery = 110.06%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	5853	52.68	ppb		0.00
Spiked Amount 50.000			Recovery = 105.36%				
44) Toluene-d8 (SS)	5.597	98	124363	46.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.86%				
63) 4-Bromofluorobenzene (...	8.032	174	41116	43.68	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 87.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.101	85	13534	19.39	ppb	#	94
3) Chloromethane	1.208	50	31716	16.35	ppb		95
4) Vinyl Chloride	1.227	62	24861	25.34	ppb	#	100
5) Bromomethane	1.369	94	5033	19.68	ppb	#	92
6) Chloroethane	1.412	64	3602	13.79	ppb	#	100
7) Trichlorofluoromethane	1.460	101	2477	15.83	ppb	#	73
8) Carbon disulfide	1.745	76	2757	4.30	ppb	#	92
9) 1,1-Dichloroethene	1.721	96	1763	6.63	ppb	#	38
10) Iodomethane	1.808	142	1357	6.81	ppb	#	37
12) Methylene Chloride	2.040	84	3035	7.30	ppb	#	21
13) Acetone	2.097	58	1378	11.13	ppb	#	67
14) trans-1,2-Dichloroethene	2.127	61	5421	6.03	ppb		81
15) n-Hexane	2.155	57	2568	6.70	ppb	#	79
17) Chloroprene (2-Chloro-...	2.510	53	11120	7.28	ppb	#	81
18) 1,1-Dichloroethane	2.533	63	7726	6.96	ppb	#	91
19) Acrylonitrile	2.510	53	11120	7.28	ppb	#	45
21) cis-1,2-Dichloroethene	2.955	61	7068	7.28	ppb	#	75
22) 2,2-Dichloropropane	3.042	77	4586	7.01	ppb	#	56
23) Bromochloromethane	3.132	130	1945	5.79	ppb	#	1
24) Chloroform	3.196	83	9077	8.59	ppb		93
25) Carbon tetrachloride	3.294	117	5534	8.34	ppb		92
26) 1,1,1-Trichloroethane	3.364	97	7700	8.42	ppb		94
28) 1,1-Dichloropropene	3.472	75	6370	7.60	ppb	#	80
29) 2-Butanone	3.522	43	13098	13.14	ppb	#	62
30) Benzene	3.703	78	22901	11.35	ppb		88
31) Methacrylonitrile*	3.790	41	12270	10.19	ppb		92
33) 1,2-Dichloroethane	3.908	62	11599	10.84	ppb	#	89
34) Trichloroethene	4.242	130	5747	8.97	ppb		89
35) Dibromomethane	4.647	93	3961	8.83	ppb	#	83
36) n-Butanol	4.686	56	740m	110.27	ppb		
37) 1,2-Dichloropropane	4.745	63	9553	9.53	ppb	#	88
38) Bromodichloromethane	4.815	83	8016	8.58	ppb		90
39) Methyl methacrylate	5.004	41	17661	9.85	ppb	#	78
41) cis-1,3-Dichloropropene	5.427	75	10099	8.58	ppb	#	74
43) Toluene	5.646	91	30641	10.27	ppb		96
45) Tetrachloroethene	6.009	164	5938	7.76	ppb	#	76
46) 4-Methyl-2-pentanone (...	6.072	43	25152	8.22	ppb		94
47) trans-1,3-Dichloropropene	6.083	75	10071	7.27	ppb	#	72
48) 1,1,2-Trichloroethane	6.237	97	7136	7.93	ppb	#	87
49) Ethyl methacrylate	6.280	69	13869	8.04	ppb	#	55
50) Dibromochloromethane	6.398	129	5481	6.10	ppb	#	82
51) 1,3-Dichloropropane	6.499	76	13023	7.94	ppb	#	58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

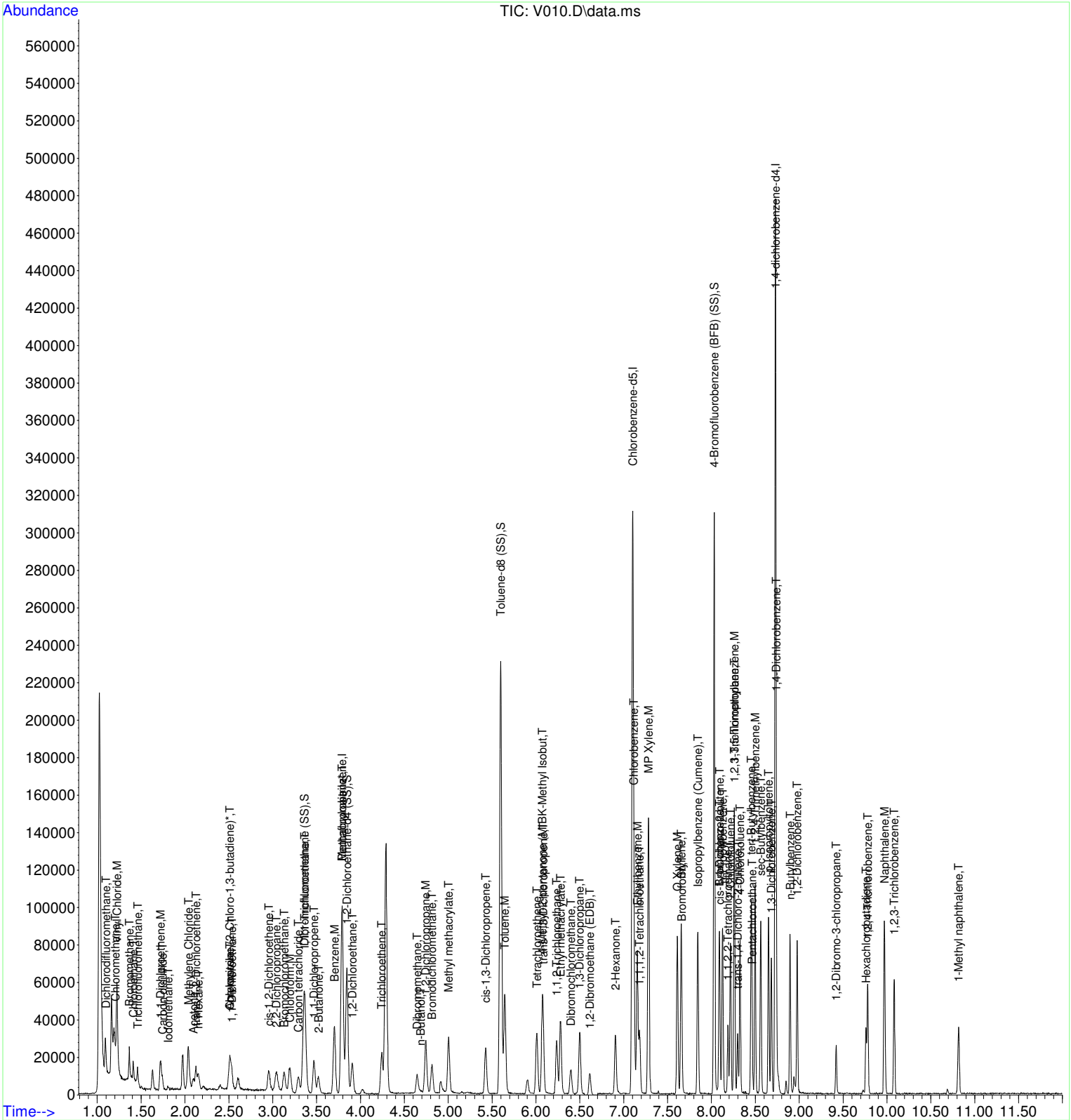
Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	7814	11.02	ppb	#	98
53) 2-Hexanone	6.907	43	19367	7.72	ppb		91
54) Chlorobenzene	7.115	112	19052	7.41	ppb		84
55) Ethyl benzene	7.155	91	37757	9.67	ppb		95
56) 1,1,1,2-Tetrachloroethane	7.181	131	6011	6.99	ppb		90
57) MP Xylene	7.282	91	59472	18.09	ppb		95
58) O Xylene	7.612	91	32145	9.23	ppb		97
59) Styrene	7.656	104	22064	6.58	ppb		91
60) Bromoform	7.662	173	4050	6.97	ppb		93
61) Isopropylbenzene (Cumene)	7.844	105	35331	8.72	ppb		98
64) Bromobenzene	8.091	156	7623	6.57	ppb	#	69
65) cis-1,4-Dichloro-2-butene	8.093	53	5343	8.16	ppb	#	77
66) n-Propylbenzene	8.126	91	40066	7.01	ppb		97
67) 1,1,2,2-Tetrachloroethane	8.188	83	10552	5.94	ppb		98
68) 2-Chlorotoluene	8.217	91	27353	8.07	ppb		95
69) 1,2,3-Trichloropropane	8.262	75	12920	7.78	ppb		95
70) 1,3,5-Trimethylbenzene	8.259	105	31566	9.65	ppb		96
71) trans-1,4-Dichloro-2-b...	8.298	53	5018	7.34	ppb	#	78
72) 4-Chlorotoluene	8.325	91	27096m	7.25	ppb		
73) tert-Butylbenzene	8.454	119	26534	6.67	ppb		89
74) Pentachloroethane	8.463	167	1998	4.56	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	32942	9.17	ppb		97
76) sec-Butylbenzene	8.562	105	36682	6.71	ppb		96
77) p-Isopropyltoluene	8.652	119	29631	6.37	ppb		96
78) 1,3-Dichlorobenzene	8.683	146	14563	5.98	ppb		95
79) 1,4-Dichlorobenzene	8.738	146	14738m	5.71	ppb		
80) n-Butylbenzene	8.895	91	26696	5.51	ppb		96
81) 1,2-Dichlorobenzene	8.978	146	15669	5.86	ppb		96
82) 1,2-Dibromo-3-chloropr...	9.422	157	3146	6.84	ppb	#	70
83) Hexachlorobutadiene	9.760	225	4591	4.49	ppb		98
84) 1,2,4-Trichlorobenzene	9.780	180	10186	4.84	ppb		99
85) Naphthalene	9.972	128	43799	8.08	ppb		95
86) 1,2,3-Trichlorobenzene	10.082	180	11505	5.62	ppb		98
88) 1-Methyl naphthalene	10.816	142	12273	4.23	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V010.D
Acq On : 23 May 2019 10:22 pm
Operator : DJD
Sample : V010
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 24 09:20:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	48865	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	104840	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	63694	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.360	111	22548	54.96	ppb		0.00
Spiked Amount 50.000			Recovery = 109.92%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	6213	54.41	ppb		0.00
Spiked Amount 50.000			Recovery = 108.82%				
44) Toluene-d8 (SS)	5.597	98	126770	47.03	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.06%				
63) 4-Bromofluorobenzene (...	8.032	174	44480	43.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.101	85	68019	99.71	ppb	#	98
3) Chloromethane	1.207	50	152967	82.12	ppb		97
4) Vinyl Chloride	1.227	62	106717	105.83	ppb	#	100
5) Bromomethane	1.368	94	20334	77.36	ppb	#	99
6) Chloroethane	1.411	64	17557	66.57	ppb	#	100
7) Trichlorofluoromethane	1.458	101	12937	80.47	ppb		97
8) Carbon disulfide	1.737	76	14919	22.67	ppb	#	99
9) 1,1-Dichloroethene	1.713	96	7496	27.41	ppb	#	50
10) Iodomethane	1.809	142	9850m	42.63	ppb		
12) Methylene Chloride	2.038	84	12228	28.64	ppb	#	24
13) Acetone	2.099	58	5377	42.27	ppb	#	66
14) trans-1,2-Dichloroethene	2.124	61	27622	29.88	ppb		84
15) n-Hexane	2.149	57	14540	36.90	ppb	#	97
17) Chloroprene (2-Chloro-...	2.507	53	58865	37.51	ppb	#	92
18) 1,1-Dichloroethane	2.531	63	38779	33.97	ppb	#	98
19) Acrylonitrile	2.507	53	58865	37.51	ppb	#	52
21) cis-1,2-Dichloroethene	2.954	61	32120	32.20	ppb		86
22) 2,2-Dichloropropane	3.042	77	20185	30.03	ppb	#	83
23) Bromochloromethane	3.131	130	7474	21.65	ppb	#	1
24) Chloroform	3.196	83	37394	34.43	ppb		94
25) Carbon tetrachloride	3.292	117	32864	48.20	ppb		98
26) 1,1,1-Trichloroethane	3.362	97	43774	46.58	ppb		97
28) 1,1-Dichloropropene	3.470	75	33808	39.23	ppb		87
29) 2-Butanone	3.522	43	55377	54.06	ppb	#	66
30) Benzene	3.702	78	116583	56.21	ppb		90
31) Methacrylonitrile*	3.790	41	61435	50.09	ppb		93
33) 1,2-Dichloroethane	3.907	62	61746	56.15	ppb	#	92
34) Trichloroethene	4.242	130	30571	46.45	ppb		91
35) Dibromomethane	4.647	93	21261	46.12	ppb	#	87
36) n-Butanol	4.691	56	3709	537.75	ppb	#	81
37) 1,2-Dichloropropane	4.744	63	49219	47.77	ppb	#	93
38) Bromodichloromethane	4.815	83	45098	46.96	ppb		91
39) Methyl methacrylate	5.004	41	91987	50.16	ppb	#	80
41) cis-1,3-Dichloropropene	5.427	75	59055	48.82	ppb	#	80
43) Toluene	5.646	91	155126	51.13	ppb		95
45) Tetrachloroethene	6.009	164	33751	43.37	ppb	#	72
46) 4-Methyl-2-pentanone (...	6.072	43	133435	42.89	ppb		92
47) trans-1,3-Dichloropropene	6.083	75	58181	41.27	ppb	#	77
48) 1,1,2-Trichloroethane	6.237	97	38927	42.53	ppb	#	90
49) Ethyl methacrylate	6.281	69	74257	42.34	ppb	#	57
50) Dibromochloromethane	6.399	129	34538	37.80	ppb		95
51) 1,3-Dichloropropane	6.499	76	71063	42.60	ppb	#	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

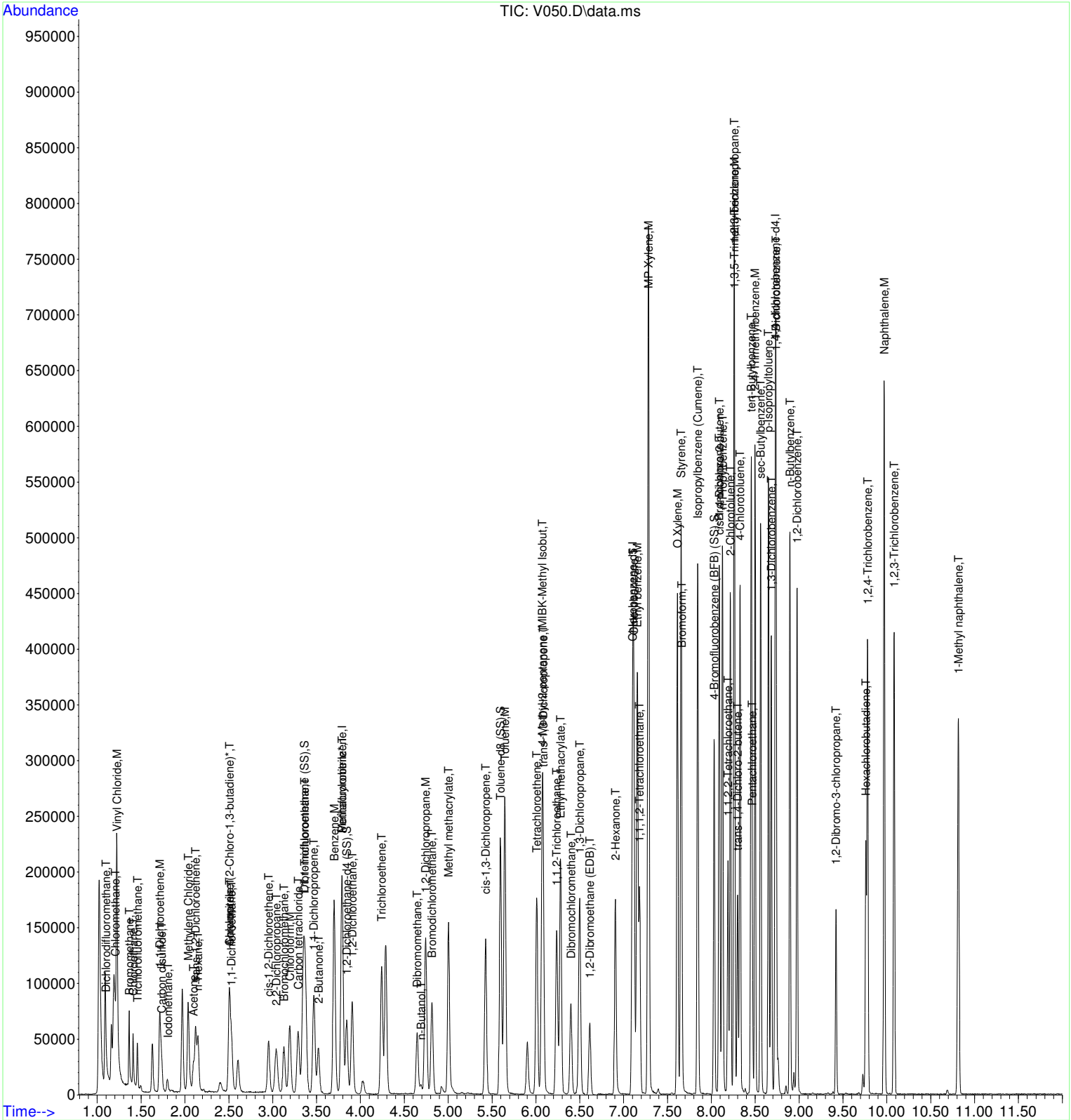
Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	42775	59.30	ppb	#	98
53) 2-Hexanone	6.906	43	104293	40.89	ppb		91
54) Chlorobenzene	7.116	112	105059	40.18	ppb		91
55) Ethyl benzene	7.155	91	200497	50.48	ppb		94
56) 1,1,1,2-Tetrachloroethane	7.182	131	34305	39.23	ppb		95
57) MP Xylene	7.282	91	313831	93.82	ppb		96
58) O Xylene	7.612	91	171870	48.53	ppb		97
59) Styrene	7.656	104	126460	37.05	ppb		93
60) Bromoform	7.663	173	26336	41.03	ppb		98
61) Isopropylbenzene (Cumene)	7.845	105	193517	46.93	ppb		98
64) Bromobenzene	8.091	156	44370	34.98	ppb	#	78
65) cis-1,4-Dichloro-2-butene	8.093	53	27542	38.47	ppb		85
66) n-Propylbenzene	8.127	91	232738	37.24	ppb		98
67) 1,1,2,2-Tetrachloroethane	8.188	83	59853	30.80	ppb		99
68) 2-Chlorotoluene	8.217	91	145857	39.38	ppb		97
69) 1,2,3-Trichloropropane	8.264	75	66649m	36.71	ppb		
70) 1,3,5-Trimethylbenzene	8.260	105	170005	47.69	ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	28605	38.28	ppb	#	81
72) 4-Chlorotoluene	8.326	91	151252	37.04	ppb		98
73) tert-Butylbenzene	8.454	119	147586	33.92	ppb		91
74) Pentachloroethane	8.464	167	12577	25.16	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	181920	46.40	ppb		96
76) sec-Butylbenzene	8.562	105	206159	34.51	ppb		96
77) p-Isopropyltoluene	8.652	119	169805	33.39	ppb		97
78) 1,3-Dichlorobenzene	8.683	146	87112	32.71	ppb		97
79) 1,4-Dichlorobenzene	8.738	146	86462	30.65	ppb		94
80) n-Butylbenzene	8.895	91	159764	30.15	ppb		96
81) 1,2-Dichlorobenzene	8.978	146	93874	32.10	ppb		97
82) 1,2-Dibromo-3-chloropr...	9.422	157	21394	42.58	ppb	#	82
83) Hexachlorobutadiene	9.760	225	28534	25.53	ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	72184	31.36	ppb		98
85) Naphthalene	9.971	128	279930	47.21	ppb		96
86) 1,2,3-Trichlorobenzene	10.082	180	79629	35.56	ppb		98
88) 1-Methyl naphthalene	10.814	142	118320	37.32	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V050.D
Acq On : 23 May 2019 10:42 pm
Operator : DJD
Sample : V050
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 24 09:20:48 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.789	168	60291	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	115996	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	74534	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.358	111	26153	46.24	ppb		0.00
Spiked Amount 50.000			Recovery = 92.48%				
32) 1,2-Dichloroethane-d4 ...	3.843	102	7182	51.74	ppb		0.00
Spiked Amount 50.000			Recovery = 103.48%				
44) Toluene-d8 (SS)	5.596	98	140650	51.66	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.32%				
63) 4-Bromofluorobenzene (...	8.032	174	53700	55.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.86%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	120642	291.17	ppb	#	97
3) Chloromethane	1.205	50	281534	88.78	ppb		96
4) Vinyl Chloride	1.225	62	186342	128.19	ppb	#	100
5) Bromomethane	1.366	94	37981	86.37	ppb	#	99
6) Chloroethane	1.409	64	31780	90.59	ppb	#	100
7) Trichlorofluoromethane	1.455	101	23194	198.81	ppb		96
8) Carbon disulfide	1.728	76	31674	162.17	ppb	#	87
9) 1,1-Dichloroethene	1.706	96	15760	171.46	ppb	#	64
10) Iodomethane	1.798	142	20563	119.17	ppb	#	94
12) Methylene Chloride	2.035	84	25727	105.78	ppb	#	52
13) Acetone	2.101	58	8616	96.78	ppb	#	43
14) trans-1,2-Dichloroethene	2.119	61	52217	135.49	ppb		86
15) n-Hexane	2.143	57	26748m	Below Cal			
17) Chloroprene (2-Chloro-...	2.503	53	97899	133.78	ppb	#	92
18) 1,1-Dichloroethane	2.529	63	70260	104.27	ppb	#	99
19) Acrylonitrile	2.503	53	97899	133.78	ppb	#	52
21) cis-1,2-Dichloroethene	2.951	61	75295	119.08	ppb		92
22) 2,2-Dichloropropane	3.038	77	49313	193.54	ppb		87
23) Bromochloromethane	3.128	130	19133	91.29	ppb	#	1
24) Chloroform	3.193	83	90828	119.57	ppb		97
25) Carbon tetrachloride	3.288	117	67525	150.32	ppb		98
26) 1,1,1-Trichloroethane	3.359	97	89205	136.24	ppb		99
28) 1,1-Dichloropropene	3.467	75	72616	167.59	ppb		94
29) 2-Butanone	3.521	43	105817	84.66	ppb	#	66
30) Benzene	3.699	78	235604	132.72	ppb		93
31) Methacrylonitrile*	3.789	41	116161	90.59	ppb		94
33) 1,2-Dichloroethane	3.905	62	119267	111.26	ppb	#	92
34) Trichloroethene	4.240	130	65298	140.74	ppb		95
35) Dibromomethane	4.645	93	43885	105.83	ppb		93
36) n-Butanol	4.695	56	7637	84.76	ppb	#	90
37) 1,2-Dichloropropane	4.743	63	97473	130.10	ppb	#	95
38) Bromodichloromethane	4.814	83	92629	106.37	ppb		93
39) Methyl methacrylate	5.004	41	173587	92.28	ppb	#	81
41) cis-1,3-Dichloropropene	5.426	75	119201	121.31	ppb	#	84
43) Toluene	5.645	91	308853	146.18	ppb		96
45) Tetrachloroethene	6.008	164	70882	174.97	ppb	#	79
46) 4-Methyl-2-pentanone (...	6.073	43	249476	87.57	ppb		93
47) trans-1,3-Dichloropropene	6.083	75	117666	118.44	ppb	#	83
48) 1,1,2-Trichloroethane	6.237	97	77475	108.83	ppb		92
49) Ethyl methacrylate	6.281	69	143913	111.23	ppb	#	62
50) Dibromochloromethane	6.399	129	75029	95.00	ppb		96
51) 1,3-Dichloropropane	6.499	76	139169	115.60	ppb	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

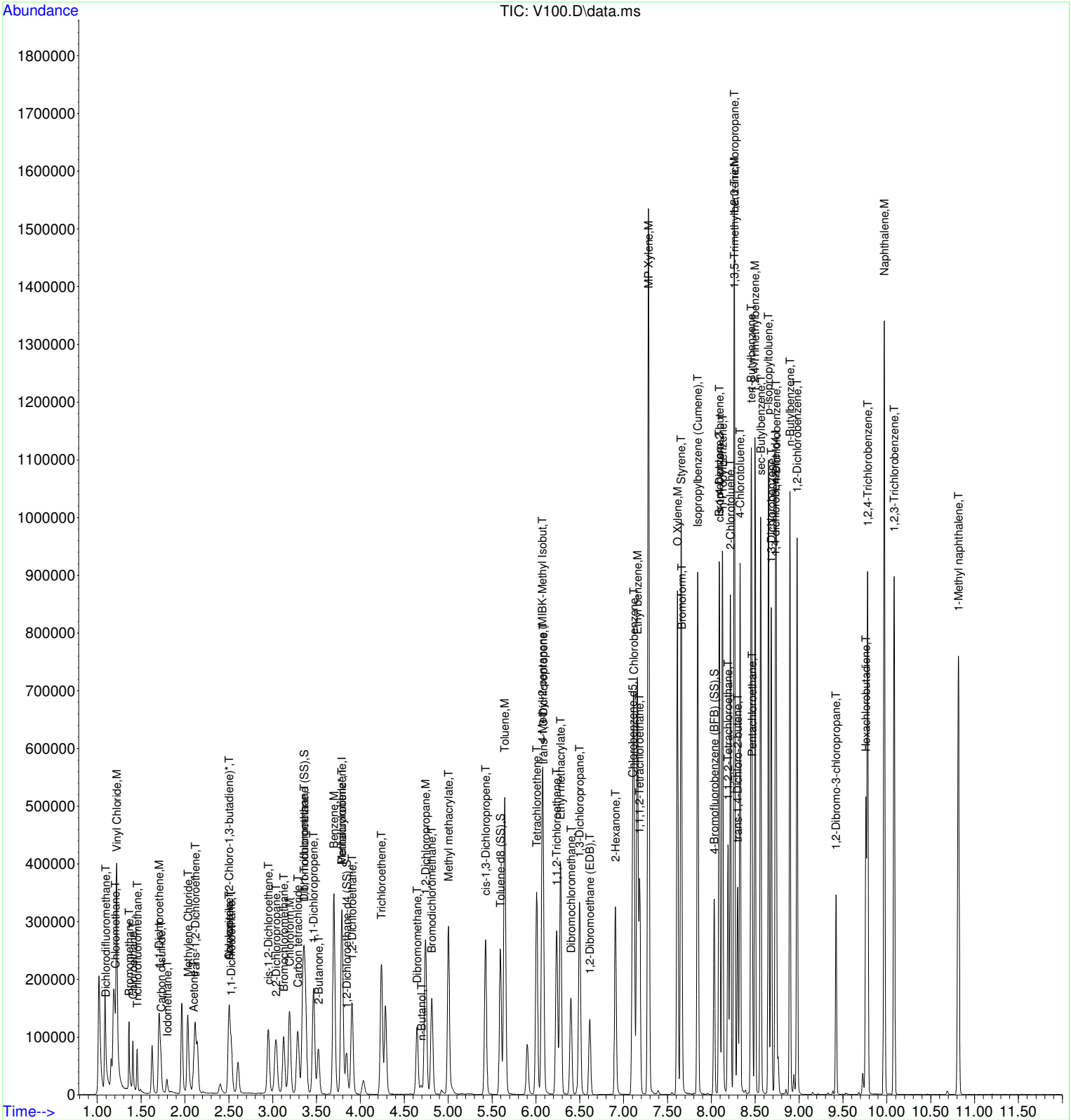
Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.614	107	86925	104.67 ppb	#	98
53) 2-Hexanone	6.907	43	198674	93.07 ppb		91
54) Chlorobenzene	7.116	112	214914	139.39 ppb		94
55) Ethyl benzene	7.156	91	387940	172.13 ppb		96
56) 1,1,1,2-Tetrachloroethane	7.182	131	73657	108.28 ppb		97
57) MP Xylene	7.283	91	611613	342.76 ppb		96
58) O Xylene	7.612	91	329161	153.91 ppb		98
59) Styrene	7.656	104	249089	142.13 ppb		94
60) Bromoform	7.663	173	62669	100.98 ppb		98
61) Isopropylbenzene (Cumene)	7.845	105	381053	185.04 ppb		98
64) Bromobenzene	8.091	156	94823	151.79 ppb	#	89
65) cis-1,4-Dichloro-2-butene	8.093	53	55031	121.90 ppb	#	85
66) n-Propylbenzene	8.127	91	453361	253.55 ppb		99
67) 1,1,2,2-Tetrachloroethane	8.189	83	127627	105.81 ppb		99
68) 2-Chlorotoluene	8.217	91	283005	201.03 ppb		99
69) 1,2,3-Trichloropropane	8.263	75	127897	115.40 ppb		97
70) 1,3,5-Trimethylbenzene	8.261	105	331545	213.26 ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	55168	108.42 ppb	#	86
72) 4-Chlorotoluene	8.327	91	294617	198.09 ppb		99
73) tert-Butylbenzene	8.455	119	301317	199.63 ppb		94
74) Pentachloroethane	8.465	167	33809	115.80 ppb	#	1
75) 1,2,4-Trimethylbenzene	8.499	105	355751	194.85 ppb		97
76) sec-Butylbenzene	8.562	105	407991	248.05 ppb		96
77) p-Isopropyltoluene	8.652	119	344241	229.34 ppb		97
78) 1,3-Dichlorobenzene	8.683	146	191467	169.37 ppb		98
79) 1,4-Dichlorobenzene	8.738	146	196193	165.76 ppb		99
80) n-Butylbenzene	8.895	91	313862	248.53 ppb		97
81) 1,2-Dichlorobenzene	8.978	146	208185	145.97 ppb		99
82) 1,2-Dibromo-3-chloropr...	9.422	157	49077	107.77 ppb		94
83) Hexachlorobutadiene	9.761	225	68484	207.31 ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	168359	182.83 ppb		99
85) Naphthalene	9.972	128	597906	148.19 ppb		97
86) 1,2,3-Trichlorobenzene	10.082	180	181624	180.05 ppb		98
88) 1-Methyl naphthalene	10.815	142	273301	153.34 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V100.D
Acq On : 23 May 2019 11:01 pm
Operator : DJD
Sample : V100
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 24 10:16:42 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:04:03 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.785	168	58648	50.00	ppb		0.00
42) Chlorobenzene-d5	7.101	117	107306	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	67039	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.355	111	27230	51.01	ppb		0.00
Spiked Amount 50.000			Recovery = 102.02%				
32) 1,2-Dichloroethane-d4 ...	3.840	102	7187	53.09	ppb		0.00
Spiked Amount 50.000			Recovery = 106.18%				
44) Toluene-d8 (SS)	5.594	98	134462	51.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.50%				
63) 4-Bromofluorobenzene (...	8.031	174	45944	49.55	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	50666	40.78	ppb	#	98
3) Chloromethane	1.204	50	121150	40.69	ppb		96
4) Vinyl Chloride	1.225	62	75825	59.33	ppb	#	100
5) Bromomethane	1.365	94	17039	52.83	ppb	#	99
6) Chloroethane	1.408	64	12911	39.84	ppb	#	100
7) Trichlorofluoromethane	1.453	101	8057	41.15	ppb		94
8) Carbon disulfide	1.719	76	14294	19.11	ppb	#	88
9) 1,1-Dichloroethene	1.696	96	6777	21.68	ppb	#	79
10) Iodomethane	1.795	142	7699	39.30	ppb	#	96
12) Methylene Chloride	2.030	84	11116	22.68	ppb	#	67
13) Acetone	2.107	58	3540	24.26	ppb	#	81
14) trans-1,2-Dichloroethene	2.113	61	19406	18.42	ppb		87
15) n-Hexane	2.135	57	10259	23.21	ppb	#	87
17) Chloroprene (2-Chloro-...	2.498	53	42581	23.52	ppb	#	94
18) 1,1-Dichloroethane	2.524	63	31726	24.15	ppb	#	97
19) Acrylonitrile	2.498	53	42581	23.52	ppb	#	51
21) cis-1,2-Dichloroethene	2.947	61	32443	28.15	ppb		96
22) 2,2-Dichloropropane	3.033	77	23563	29.68	ppb		89
23) Bromochloromethane	3.126	130	10374	26.01	ppb	#	1
24) Chloroform	3.189	83	43230	33.81	ppb		100
25) Carbon tetrachloride	3.283	117	30830	37.34	ppb		99
26) 1,1,1-Trichloroethane	3.355	97	39264	35.02	ppb		99
28) 1,1-Dichloropropene	3.462	75	32243	31.89	ppb		97
29) 2-Butanone	3.522	43	47178	38.83	ppb	#	66
30) Benzene	3.695	78	106510	43.08	ppb		95
31) Methacrylonitrile*	3.787	41	48102	36.82	ppb		95
33) 1,2-Dichloroethane	3.902	62	51311	39.46	ppb	#	94
34) Trichloroethene	4.236	130	29643	37.74	ppb		97
35) Dibromomethane	4.643	93	19378	35.45	ppb		93
36) n-Butanol	4.705	56	3481	410.36	ppb	#	1
37) 1,2-Dichloropropane	4.740	63	40972	33.85	ppb	#	90
38) Bromodichloromethane	4.811	83	40007	35.03	ppb		94
39) Methyl methacrylate	5.003	41	70255	35.97	ppb		84
41) cis-1,3-Dichloropropene	5.423	75	50815	35.23	ppb	#	85
43) Toluene	5.643	91	136424	44.39	ppb		96
45) Tetrachloroethene	6.006	164	30067	38.24	ppb		79
46) 4-Methyl-2-pentanone (...	6.072	43	100019	32.14	ppb		94
47) trans-1,3-Dichloropropene	6.081	75	50218	35.04	ppb	#	84
48) 1,1,2-Trichloroethane	6.236	97	33078	35.84	ppb		93
49) Ethyl methacrylate	6.279	69	60780	34.38	ppb	#	64
50) Dibromochloromethane	6.397	129	30961	33.20	ppb		95
51) 1,3-Dichloropropane	6.497	76	57994	34.65	ppb	#	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration

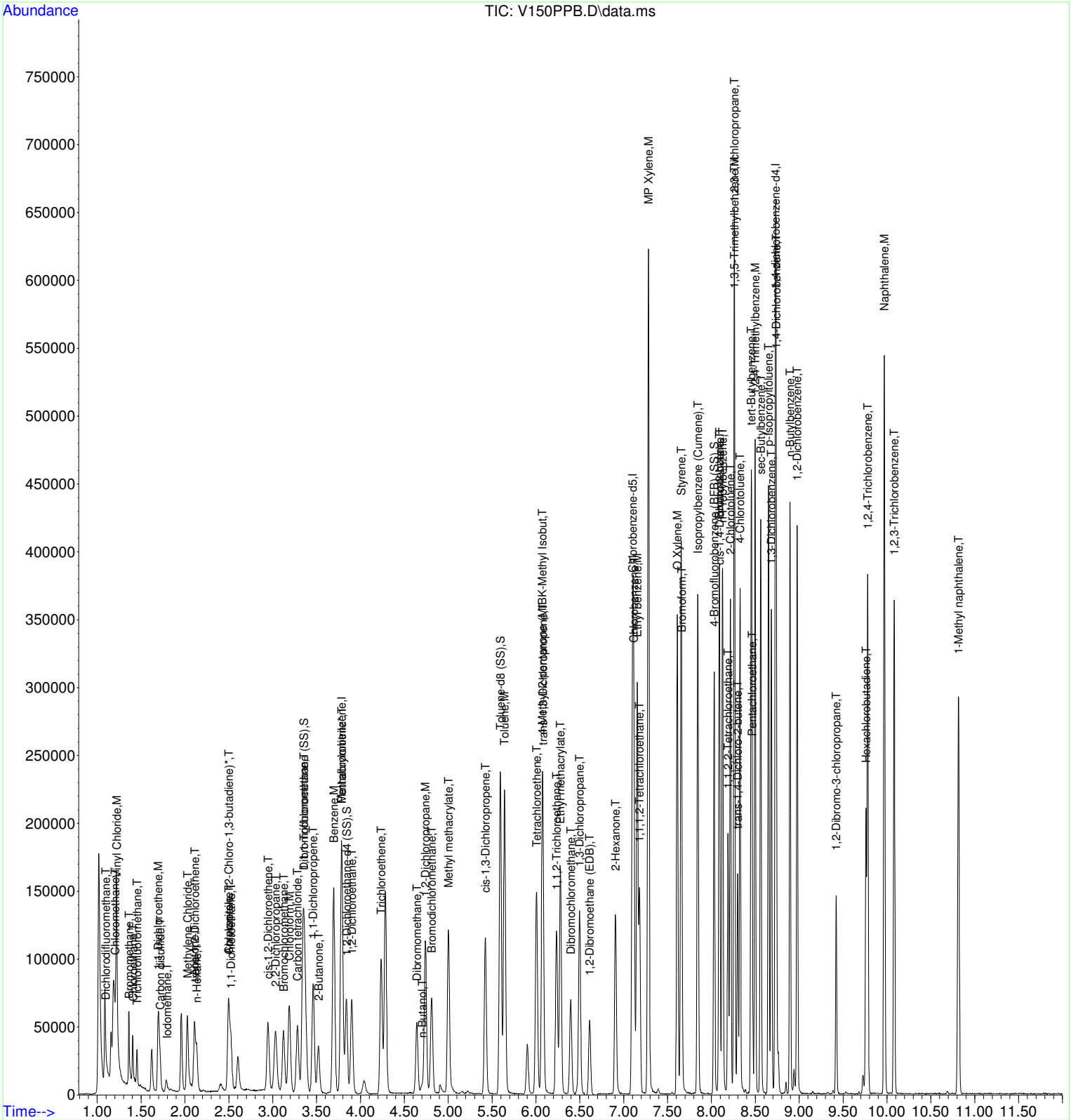
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.612	107	36780	49.16	ppb	#	99
53) 2-Hexanone	6.907	43	82220	32.08	ppb		92
54) Chlorobenzene	7.115	112	89140	33.79	ppb		95
55) Ethyl benzene	7.154	91	159986	39.68	ppb		96
56) 1,1,1,2-Tetrachloroethane	7.181	131	29446	32.99	ppb		96
57) MP Xylene	7.282	91	255859	75.38	ppb		97
58) O Xylene	7.611	91	137076	38.08	ppb		98
59) Styrene	7.656	104	105488	30.69	ppb		94
60) Bromoform	7.662	173	23792	37.22	ppb		97
61) Isopropylbenzene (Cumene)	7.844	105	156156	37.10	ppb		98
64) Bromobenzene	8.091	156	37767	29.36	ppb	#	82
65) cis-1,4-Dichloro-2-butene	8.093	53	23763	32.18	ppb		87
66) n-Propylbenzene	8.126	91	188116	29.91	ppb		99
67) 1,1,2,2-Tetrachloroethane	8.189	83	55223	28.00	ppb		98
68) 2-Chlorotoluene	8.217	91	119634	32.02	ppb		99
69) 1,2,3-Trichloropropane	8.263	75	55274	30.14	ppb		96
70) 1,3,5-Trimethylbenzene	8.259	105	138550	44.70	ppb		97
71) trans-1,4-Dichloro-2-b...	8.298	53	24704	32.09	ppb	#	85
72) 4-Chlorotoluene	8.326	91	124664	30.31	ppb		99
73) tert-Butylbenzene	8.454	119	125229	28.35	ppb		94
74) Pentachloroethane	8.464	167	13391	33.21	ppb	#	1
75) 1,2,4-Trimethylbenzene	8.498	105	150036	43.80	ppb		97
76) sec-Butylbenzene	8.561	105	169539	28.11	ppb		96
77) p-Isopropyltoluene	8.651	119	142784	27.71	ppb		97
78) 1,3-Dichlorobenzene	8.683	146	76731	28.30	ppb		98
79) 1,4-Dichlorobenzene	8.738	146	79853	27.86	ppb		95
80) n-Butylbenzene	8.895	91	133857	25.19	ppb		97
81) 1,2-Dichlorobenzene	8.978	146	87118	29.26	ppb		98
82) 1,2-Dibromo-3-chloropr...	9.422	157	18960	36.14	ppb	#	84
83) Hexachlorobutadiene	9.761	225	27306	24.16	ppb		99
84) 1,2,4-Trichlorobenzene	9.780	180	66406	28.21	ppb		98
85) Naphthalene	9.971	128	243633	39.33	ppb		96
86) 1,2,3-Trichlorobenzene	10.082	180	70711	30.86	ppb		100
88) 1-Methyl naphthalene	10.814	142	102381	31.21	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V150PPB.D
Acq On : 23 May 2019 5:31 pm
Operator : DJD
Sample : V150PPB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 17:49:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Thu May 23 17:49:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.786	168	69235	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	124222	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	93701	50.00	ppb		0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.357	111	28253	48.60	ppb		0.00
Spiked Amount 50.000			Recovery = 97.20%				
32) 1,2-Dichloroethane-d4 ...	3.842	102	7978	49.31	ppb		0.00
Spiked Amount 50.000			Recovery = 98.62%				
44) Toluene-d8 (SS)	5.595	98	145216	45.47	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 90.94%				
63) 4-Bromofluorobenzene (...	8.032	174	64896	42.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.100	85	204052	230.33	ppb	#	97
3) Chloromethane	1.205	50	505361	226.14	ppb		99
4) Vinyl Chloride	1.225	62	314378	220.04	ppb	#	100
5) Bromomethane	1.366	94	67355	180.86	ppb	#	99
6) Chloroethane	1.407	64	56568	156.13	ppb	#	100
7) Trichlorofluoromethane	1.453	101	38527	169.13	ppb		96
8) Carbon disulfide	1.717	76	62605	67.13	ppb	#	80
9) 1,1-Dichloroethene	1.693	96	30531	78.80	ppb	#	78
10) Iodomethane	1.794	142	48235	118.64	ppb	#	99
12) Methylene Chloride	2.029	84	53159	87.86	ppb	#	72
13) Acetone	2.111	58	20474	113.59	ppb	#	1
14) trans-1,2-Dichloroethene	2.111	61	105010	80.17	ppb		89
15) n-Hexane	2.132	57	53160	95.23	ppb	#	20
17) Chloroprene (2-Chloro-...	2.496	53	209516	94.22	ppb	#	95
18) 1,1-Dichloroethane	2.524	63	150207	92.86	ppb	#	99
19) Acrylonitrile	2.496	53	209516	94.22	ppb	#	51
21) cis-1,2-Dichloroethene	2.947	61	138104	97.73	ppb		96
22) 2,2-Dichloropropane	3.034	77	91509	96.08	ppb		91
23) Bromochloromethane	3.125	130	40480	82.76	ppb	#	1
24) Chloroform	3.192	83	174180	113.19	ppb		99
25) Carbon tetrachloride	3.283	117	138277	143.15	ppb		97
26) 1,1,1-Trichloroethane	3.355	97	174356	130.96	ppb		97
28) 1,1-Dichloropropene	3.463	75	142317	116.56	ppb		95
29) 2-Butanone	3.525	43	192948	132.93	ppb	#	68
30) Benzene	3.696	78	459352	156.32	ppb		96
31) Methacrylonitrile*	3.791	41	207178	121.23	ppb		96
33) 1,2-Dichloroethane	3.904	62	218865	140.47	ppb	#	94
34) Trichloroethene	4.237	130	132219	141.78	ppb		96
35) Dibromomethane	4.644	93	87735	134.31	ppb		97
36) n-Butanol	4.708	56	16288	1666.73	ppb	#	1
37) 1,2-Dichloropropane	4.742	63	179377	122.88	ppb	#	94
38) Bromodichloromethane	4.813	83	182625	134.22	ppb		95
39) Methyl methacrylate	5.004	41	314349	122.00	ppb		83
41) cis-1,3-Dichloropropene	5.425	75	224908	131.23	ppb		88
43) Toluene	5.644	91	592885	164.92	ppb		97
45) Tetrachloroethene	6.008	164	142531	154.56	ppb		90
46) 4-Methyl-2-pentanone (...	6.075	43	463792	125.83	ppb		93
47) trans-1,3-Dichloropropene	6.083	75	227229	136.02	ppb		87
48) 1,1,2-Trichloroethane	6.238	97	152315	140.44	ppb		96
49) Ethyl methacrylate	6.282	69	274717	132.20	ppb	#	68
50) Dibromochloromethane	6.400	129	159260	147.10	ppb		98
51) 1,3-Dichloropropane	6.499	76	261678	132.40	ppb	#	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

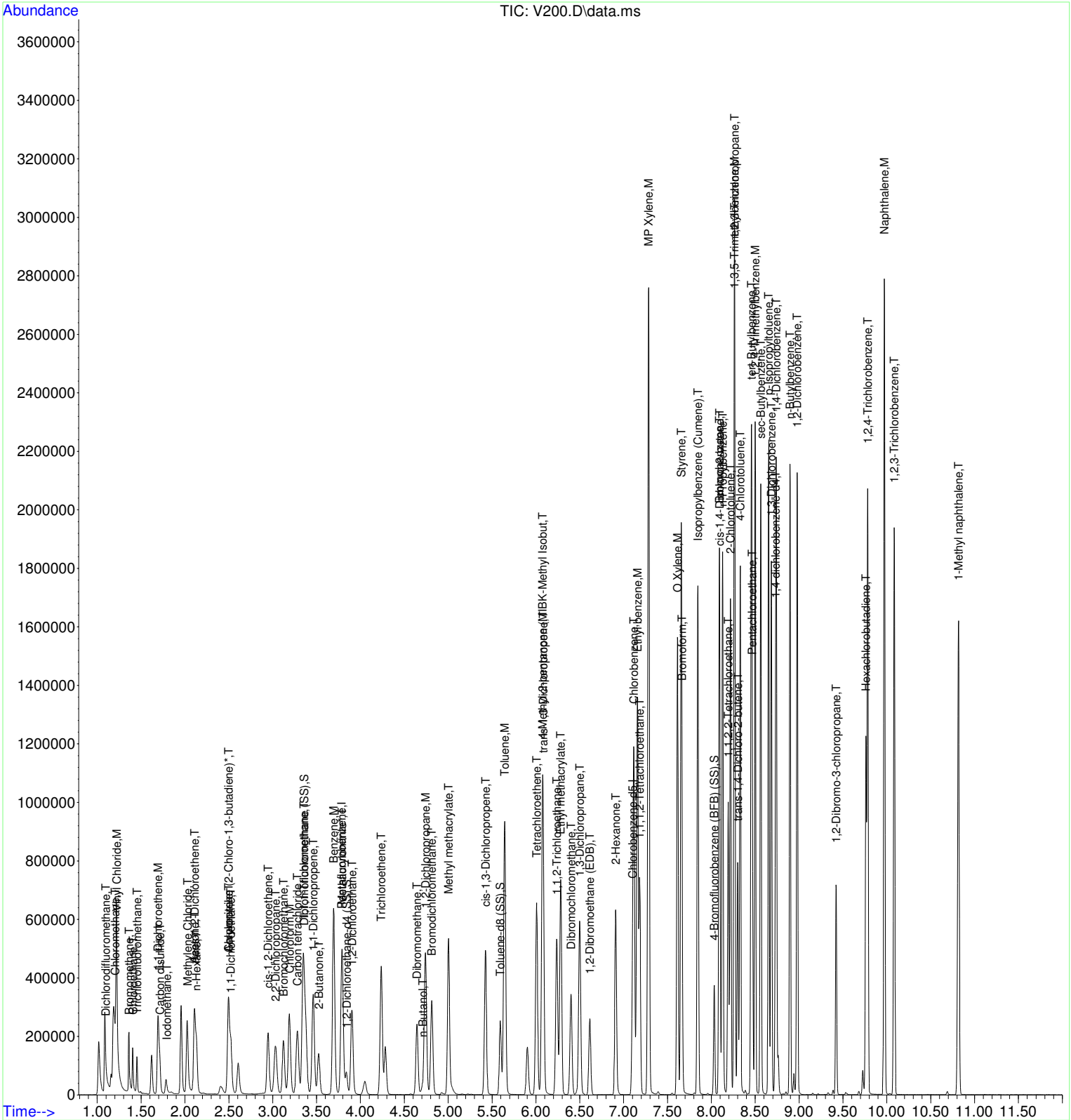
Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,2-Dibromoethane (EDB)	6.615	107	173734	203.29	ppb	#	99
53) 2-Hexanone	6.910	43	395320	130.81	ppb		91
54) Chlorobenzene	7.116	112	420102	135.59	ppb		95
55) Ethyl benzene	7.156	91	733197	155.79	ppb		97
56) 1,1,1,2-Tetrachloroethane	7.183	131	151934	146.62	ppb		98
57) MP Xylene	7.284	91	1151035	290.42	ppb		97
58) O Xylene	7.613	91	628007	149.67	ppb		98
59) Styrene	7.657	104	493274	121.98	ppb		95
60) Bromoform	7.665	173	150727	156.12	ppb		99
61) Isopropylbenzene (Cumene)	7.845	105	744876	152.45	ppb		97
64) Bromobenzene	8.092	156	207150	111.00	ppb		95
65) cis-1,4-Dichloro-2-butene	8.094	53	112995	107.28	ppb		90
66) n-Propylbenzene	8.128	91	890039	96.80	ppb		99
67) 1,1,2,2-Tetrachloroethane	8.191	83	296382	103.69	ppb		99
68) 2-Chlorotoluene	8.219	91	561365	103.02	ppb		98
69) 1,2,3-Trichloropropane	8.265	75	268667	100.58	ppb		94
70) 1,3,5-Trimethylbenzene	8.262	105	661573	126.82	ppb		97
71) trans-1,4-Dichloro-2-b...	8.300	53	119311	108.55	ppb		90
72) 4-Chlorotoluene	8.328	91	602632	100.31	ppb		97
73) tert-Butylbenzene	8.456	119	647529	101.17	ppb		97
74) Pentachloroethane	8.466	167	99509	114.31	ppb	#	49
75) 1,2,4-Trimethylbenzene	8.500	105	735158	127.93	ppb		98
76) sec-Butylbenzene	8.563	105	845470	96.21	ppb		96
77) p-Isopropyltoluene	8.653	119	735535	98.31	ppb		97
78) 1,3-Dichlorobenzene	8.684	146	441080	112.59	ppb		96
79) 1,4-Dichlorobenzene	8.739	146	457540	110.26	ppb		96
80) n-Butylbenzene	8.896	91	674898	86.58	ppb		97
81) 1,2-Dichlorobenzene	8.979	146	496192	115.32	ppb		97
82) 1,2-Dibromo-3-chloropr...	9.423	157	111229	150.47	ppb		98
83) Hexachlorobutadiene	9.761	225	174693	106.26	ppb		99
84) 1,2,4-Trichlorobenzene	9.781	180	394434	116.50	ppb		98
85) Naphthalene	9.972	128	1283646	147.16	ppb		98
86) 1,2,3-Trichlorobenzene	10.083	180	408603	124.04	ppb		98
88) 1-Methyl naphthalene	10.815	142	602082	129.10	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : V200.D
Acq On : 23 May 2019 11:21 pm
Operator : DJD
Sample : V200
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: May 24 09:21:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:19:18 2019
Response via : Initial Calibration



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Response Factor Report VOA MSD

Method Path : C:\msdchem\1\methods\
Method File : VOC-DA-23MAY2019.M
Title : VOC
Last Update : Fri May 24 11:00:55 2019
Response Via : Initial Calibration

Calibration Files
1 =BCAL-001PPB.D 10 =BCAL-010PPB.D 50 =BCAL-050PPB.D 100 =BCAL-100PPB.D 200 =BCAL-150PPB.D

		Compound	1	10	50	100	200	Avg	%RSD	R^2
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)	T	Dichlorodifluo...	0.496	1.477	1.466	1.249	1.156	1.169	34.29	0.999
3)	T	Chloromethane		3.462	3.296	2.915	2.864	3.134	9.30	0.999
4)	M	Vinyl Chloride	2.099	0.967	0.791	0.625	0.569	1.010	62.18	0.997
5)	T	Bromomethane	0.964	0.549	0.438	0.393	0.382	0.545	44.59	0.999
6)	T	Chloroethane	0.463	0.393	0.378	0.329	0.321	0.377	15.26	0.999
7)	T	Trichlorofluor...	0.173	0.270	0.279	0.240	0.218	0.236	18.04	0.999
8)	T	Carbon disulfide	0.265	0.301	0.321	0.328	0.355	0.314	10.68	0.998
9)	M	1,1-Dichloroet...	0.441	0.192	0.162	0.163	0.173	0.226	53.41	0.999
10)	T	Iodomethane	0.053	0.148	0.212	0.213	0.273	0.180	46.60	0.999
11)	T	Acrolein (2-Pr...	0.106	0.098	0.072	0.056	0.051	0.077#	32.06	0.996
12)	T	Methylene Chlo...	0.621	0.331	0.263	0.266	0.301	0.357	42.16	1.000
13)	T	Acetone	0.440	0.150	0.116	0.089	0.116	0.182	79.97	0.993
14)	T	trans-1,2-Dich...	0.489	0.592	0.595	0.541	0.595	0.562	8.40	0.998
15)	T	n-Hexane	0.289	0.280	0.313	0.277	0.301	0.292	5.17	0.998
16)	M	MTBE	1.688	1.227	1.144	0.996	0.991	1.209	23.64	0.999
17)	T	Chloroprene (2...	0.987	1.214	1.268	1.014	1.187	1.134	11.11	0.993
18)	T	1,1-Dichloroet...	0.644	0.843	0.836	0.727	0.851	0.780	11.71	0.994
19)	T	Acrylonitrile	0.987	1.214	1.268	1.014	1.187	1.134	11.11	0.993
20)	T	Vinyl Acetate ...	0.668	1.055	1.385	1.229	1.148	1.097	24.49	0.999
21)	T	cis-1,2-Dichlo...	0.540	0.772	0.692	0.780	0.783	0.713	14.54	0.999
22)	T	2,2-Dichloropr...	0.414	0.501	0.435	0.511	0.519	0.476	10.04	0.998
23)	T	Bromochloromet...	0.057	0.212	0.161	0.198	0.229	0.172	40.18	0.991
24)	M	Chloroform	1.044	0.991	0.806	0.940	0.987	0.954	9.47	0.997
25)	T	Carbon tetrach...	0.492	0.604	0.708	0.699	0.784	0.657	17.09	0.997
26)	T	1,1,1-Trichlor...	0.789	0.841	0.943	0.924	0.988	0.897	8.98	0.999
27)	S	Dibromofluorom...	0.486	0.478	0.468	0.486	0.499	0.483	2.39	
28)	T	1,1-Dichloropr...	0.558	0.695	0.728	0.752	0.806	0.708	13.15	0.999
29)	T	2-Butanone	3.631	1.430	1.193	1.096	1.093	1.689	64.81	1.000
30)	M	Benzene	2.857	2.267	2.047	1.913	1.709	2.159	20.39	0.996
31)	T	Methacrylonitr...	1.390	1.339	1.324	1.203	1.174	1.286	7.24	1.000
32)	S	1,2-Dichloroet...	0.129	0.134	0.132	0.126	0.134	0.131	2.72	
33)	T	1,2-Dichloroet...	1.410	1.186	1.117	1.027	0.918	1.132	16.38	0.995
34)	T	Trichloroethene	0.575	0.627	0.659	0.676	0.749	0.657	9.77	0.997
35)	T	Dibromomethane	0.286	0.432	0.458	0.454	0.497	0.426	19.15	0.998
36)	T	n-Butanol		0.081	0.080	0.079	0.092	0.083#	7.50	1.000
37)	M	1,2-Dichloropr...	1.038	1.043	1.061	1.009	1.016	1.033	2.01	1.000
38)	T	Bromodichlorom...	0.725	0.875	0.972	0.959	1.035	0.913	13.09	1.000
39)	T	Methyl methacr...	1.866	1.928	1.982	1.797	1.781	1.871	4.56	0.999
40)	T	2-Chloroethyl ...	1.142	0.515	0.550	0.531	0.487	0.645	43.21	1.000
41)	T	cis-1,3-Dichlo...	0.913	1.102	1.273	1.234	1.274	1.159	13.32	1.000
42)	I	Chlorobenzene-d5	----------	ISTD	----------					
43)	M	Toluene	1.832	1.429	1.369	1.325	1.260	1.443	15.67	0.999
44)	S	Toluene-d8 (SS)	1.311	1.335	1.338	1.337	1.379	1.340	1.84	
45)	T	Tetrachloroethene	0.247	0.310	0.361	0.379	0.442	0.348	21.09	1.000
46)	T	4-Methyl-2-pen...	1.250	1.312	1.426	1.335	1.437	1.352	5.86	0.999
47)	T	trans-1,3-Dich...	0.404	0.525	0.622	0.630	0.704	0.577	20.03	1.000
48)	T	1,1,2-Trichlor...	0.287	0.372	0.416	0.415	0.472	0.392	17.55	0.996
49)	T	Ethyl methacry...	0.603	0.724	0.794	0.770	0.851	0.748	12.49	0.998
50)	T	Dibromochlorom...	0.201	0.286	0.369	0.402	0.493	0.350	31.90	0.990
51)	T	1,3-Dichloropr...	0.572	0.679	0.760	0.745	0.811	0.713	12.89	0.998
52)	T	1,2-Dibromoeth...	0.335	0.373	0.372	0.368	0.352	0.360	4.53	0.999
53)	T	2-Hexanone	1.073	1.010	1.115	1.063	1.225	1.097	7.32	0.995
54)	T	Chlorobenzene	0.776	0.994	1.123	1.150	1.302	1.069	18.42	0.996
55)	M	Ethyl benzene	1.788	1.736	1.756	1.751	1.671	1.740	2.48	0.999
56)	T	1,1,1,2-Tetrac...	0.207	0.314	0.367	0.394	0.471	0.350	28.04	0.992
57)	M	MP Xylene	1.312	1.375	1.378	1.378	1.308	1.350	2.72	0.999
58)	M	O Xylene	1.306	1.547	1.545	1.517	1.469	1.477	6.81	1.000
59)	T	Styrene	0.881	1.151	1.352	1.333	1.528	1.249	19.64	0.996
60)	T	Bromoform	0.129	0.211	0.282	0.335	0.467	0.285	44.89	1.000
61)	T	Isopropylbenze...	1.166	1.648	1.697	1.708	1.656	1.575	14.59	1.000
62)	I	1,4-dichlorobenzen...	----------	ISTD	----------					
63)	S	4-Bromofluorob...	0.823	0.836	0.827	0.802	0.829	0.823	1.58	

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64)	T	Bromobenzene	0.610	0.756	0.889	0.884	0.982	0.824	17.49	0.997
65)	T	cis-1,4-Dichlo...	0.416	0.530	0.552	0.513	0.536	0.509	10.60	0.999
66)	T	n-Propylbenzene	3.026	3.976	4.661	4.226	4.218	4.022	15.14	0.999
67)	T	1,1,2,2-Tetrac...	0.784	1.047	1.199	1.190	1.405	1.125	20.40	0.994
68)	T	2-Chlorotoluene	2.234	2.714	2.921	2.638	2.661	2.634	9.49	0.999
69)	T	1,2,3-Trichlor...	1.074	1.282	1.335	1.192	1.273	1.231	8.26	0.998
70)	M	1,3,5-Trimethy...	2.320	2.789	2.812	2.647	2.264	2.566	10.10	1.000
71)	T	trans-1,4-Dich...	0.422	0.498	0.573	0.514	0.565	0.514	11.86	0.999
72)	T	4-Chlorotoluene	2.094	2.689	3.029	2.746	2.856	2.683	13.19	0.999
73)	T	tert-Butylbenzene	2.130	2.633	2.956	2.809	3.069	2.719	13.53	0.998
74)	T	Pentachloroethane	0.074	0.198	0.252	0.315	0.472	0.262	55.96	1.000
75)	M	1,2,4-Trimethy...	2.543	2.949	3.019	2.801	2.444	2.751	9.10	1.000
76)	T	sec-Butylbenzene	2.696	3.640	4.129	3.803	4.007	3.655	15.54	0.999
77)	T	p-Isopropyltol...	2.055	2.940	3.401	3.209	3.486	3.018	19.14	0.998
78)	T	1,3-Dichlorobe...	0.987	1.445	1.745	1.785	2.091	1.610	25.88	0.994
79)	T	1,4-Dichlorobe...	1.103	1.463	1.732	1.829	2.169	1.659	24.14	0.993
80)	T	n-Butylbenzene	1.880	2.649	3.200	2.926	3.199	2.771	19.77	0.998
81)	T	1,2-Dichlorobe...	1.282	1.555	1.880	1.941	2.352	1.802	22.52	0.992
82)	T	1,2-Dibromo-3-...	0.224	0.312	0.428	0.458	0.527	0.390	31.02	0.995
83)	T	Hexachlorobuta...	0.321	0.456	0.571	0.638	0.828	0.563	33.93	1.000
84)	T	1,2,4-Trichlor...	0.654	1.011	1.446	1.569	1.869	1.310	36.58	0.993
85)	M	Naphthalene	2.637	3.593	4.470	4.344	4.069	3.823	19.44	0.998
86)	T	1,2,3-Trichlor...	0.723	1.142	1.595	1.693	1.937	1.418	34.11	0.996
87)	T	2-Methyl napht...	0.446	0.735	1.642	1.943	1.974	1.348	52.73	0.998
88)	T	1-Methyl napht...	0.518	1.218	2.370	2.548	2.854	1.901	52.09	0.997

(#) = Out of Range

VOC-DA-23MAY2019.M Fri May 24 11:03:09 2019

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

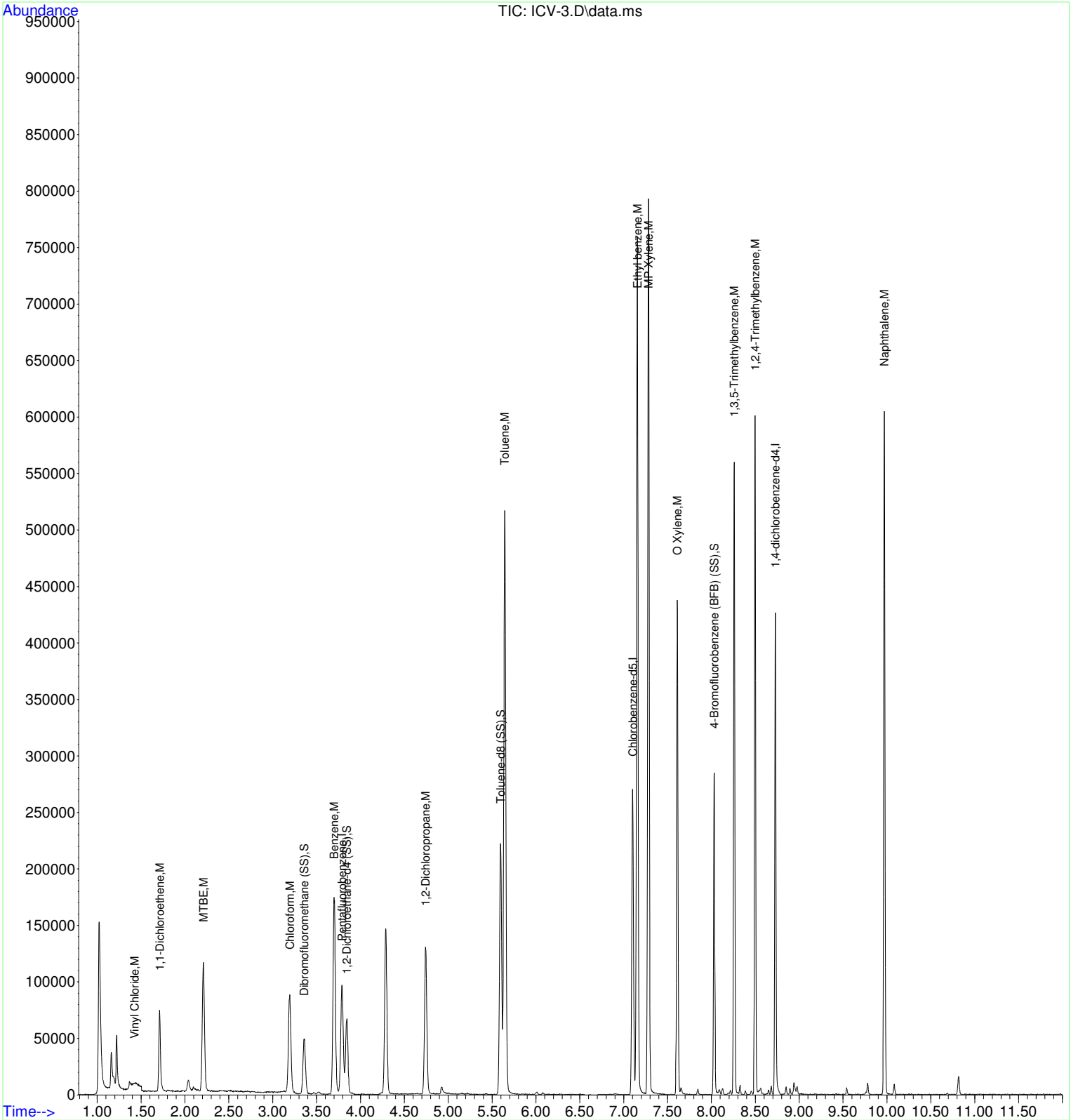
Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.791	168	63655	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	104641	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	58400	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.360	111	30937	50.27	ppb		0.00
Spiked Amount 50.000			Recovery = 100.54%				
32) 1,2-Dichloroethane-d4 ...	3.844	102	7353	44.13	ppb		0.00
Spiked Amount 50.000			Recovery = 88.26%				
44) Toluene-d8 (SS)	5.597	98	130505	46.53	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 93.06%				
63) 4-Bromofluorobenzene (...	8.032	174	44052	45.81	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.62%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.426	62	35818m	39.18	ppb		
9) 1,1-Dichloroethene	1.713	96	13482	62.06	ppb	#	76
16) MTBE	2.210	73	74790	58.76	ppb	#	89
24) Chloroform	3.194	83	59186	47.95	ppb		99
30) Benzene	3.701	78	127167	56.59	ppb		96
37) 1,2-Dichloropropane	4.744	63	49135	37.94	ppb	#	97
43) Toluene	5.646	91	324535	121.36	ppb		97
55) Ethyl benzene	7.155	91	403128	113.96	ppb		97
57) MP Xylene	7.282	91	319965	115.42	ppb		97
58) O Xylene	7.612	91	169949	54.81	ppb		98
70) 1,3,5-Trimethylbenzene	8.259	105	184276	56.31	ppb		89
75) 1,2,4-Trimethylbenzene	8.498	105	193491	55.80	ppb		97
85) Naphthalene	9.971	128	276364	57.16	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration



Untitled
Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\23MAY2019-CAL\
Data File : ICV-3.D
Acq On : 24 May 2019 12:00 am
Operator : DJD
Sample : ICV-3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:47:54 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Fri May 24 10:47:43 2019
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	137	0.00
4	M	Vinyl Chloride	50.000	39.178	21.6	98	0.20
9	M	1,1-Dichloroethene	50.000	62.062	-24.1	180	0.03
16	M	MTBE	50.000	58.764	-17.5	141	0.00
24	M	Chloroform	50.000	47.950	4.1	158	0.00
27	S	Dibromofluoromethane (SS)	50.000	50.275	-0.5	143	0.00
30	M	Benzene	50.000	56.588	-13.2	134	0.00
32	S	1,2-Dichloroethane-d4 (SS)	50.000	44.131	11.7	120	0.00
37	M	1,2-Dichloropropane	50.000	37.941	24.1	100	0.00
42	I	Chlorobenzene-d5	50.000	50.000	0.0	112	0.00
43	M	Toluene	100.000	121.360	-21.4	131	0.00
44	S	Toluene-d8 (SS)	50.000	46.526	6.9	104	0.00
55	M	Ethyl benzene	100.000	113.958	-14.0	123	0.00
57	M	MP Xylene	100.000	115.419	-15.4	124	0.00
58	M	O Xylene	50.000	54.805	-9.6	118	0.00
62	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	117	0.00
63	S	4-Bromofluorobenzene (BFB)	50.000	45.808	8.4	107	0.00
70	M	1,3,5-Trimethylbenzene	50.000	56.313	-12.6	131	0.00
75	M	1,2,4-Trimethylbenzene	50.000	55.796	-11.6	128	0.00
85	M	Naphthalene	50.000	57.162	-14.3	124	0.00

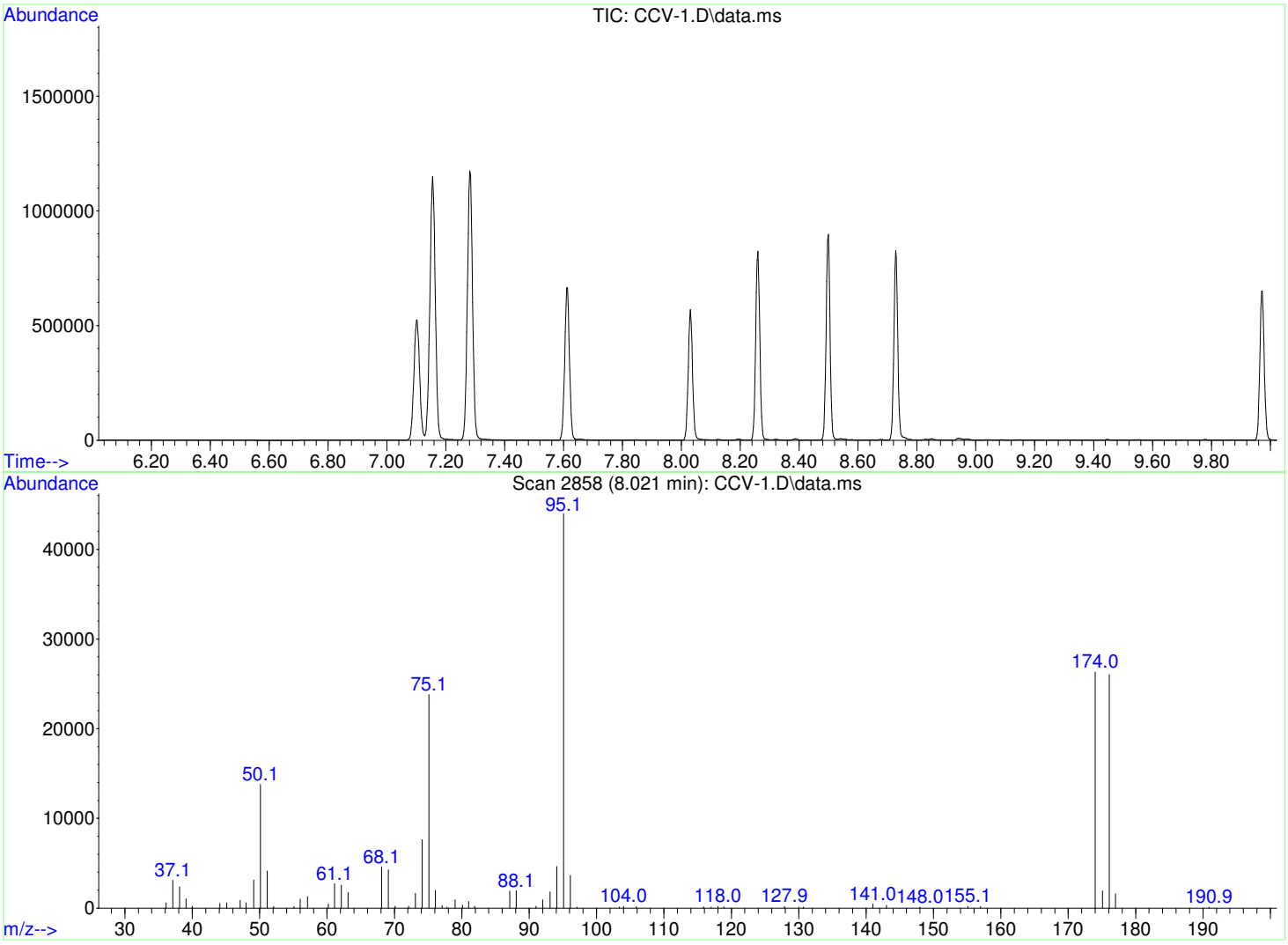
(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOC-DA-23MAY2019.M Fri May 24 10:54:59 2019

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-1.D
Acq On : 28 May 2019 11:27 am
Operator : PS
Sample : CCV-1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Title : VOC
Last Update : Tue May 28 11:14:41 2019



Spectrum Information: Scan 2858

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.4	13794	PASS
75	95	30	60	54.1	23792	PASS
95	95	100	100	100.0	43992	PASS
96	95	5	9	8.3	3644	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.8	26320	PASS
175	174	5	9	7.2	1889	PASS
176	174	95	101	98.9	26040	PASS
177	176	5	9	6.1	1577	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-1A.D
Acq On : 28 May 2019 11:46 am
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

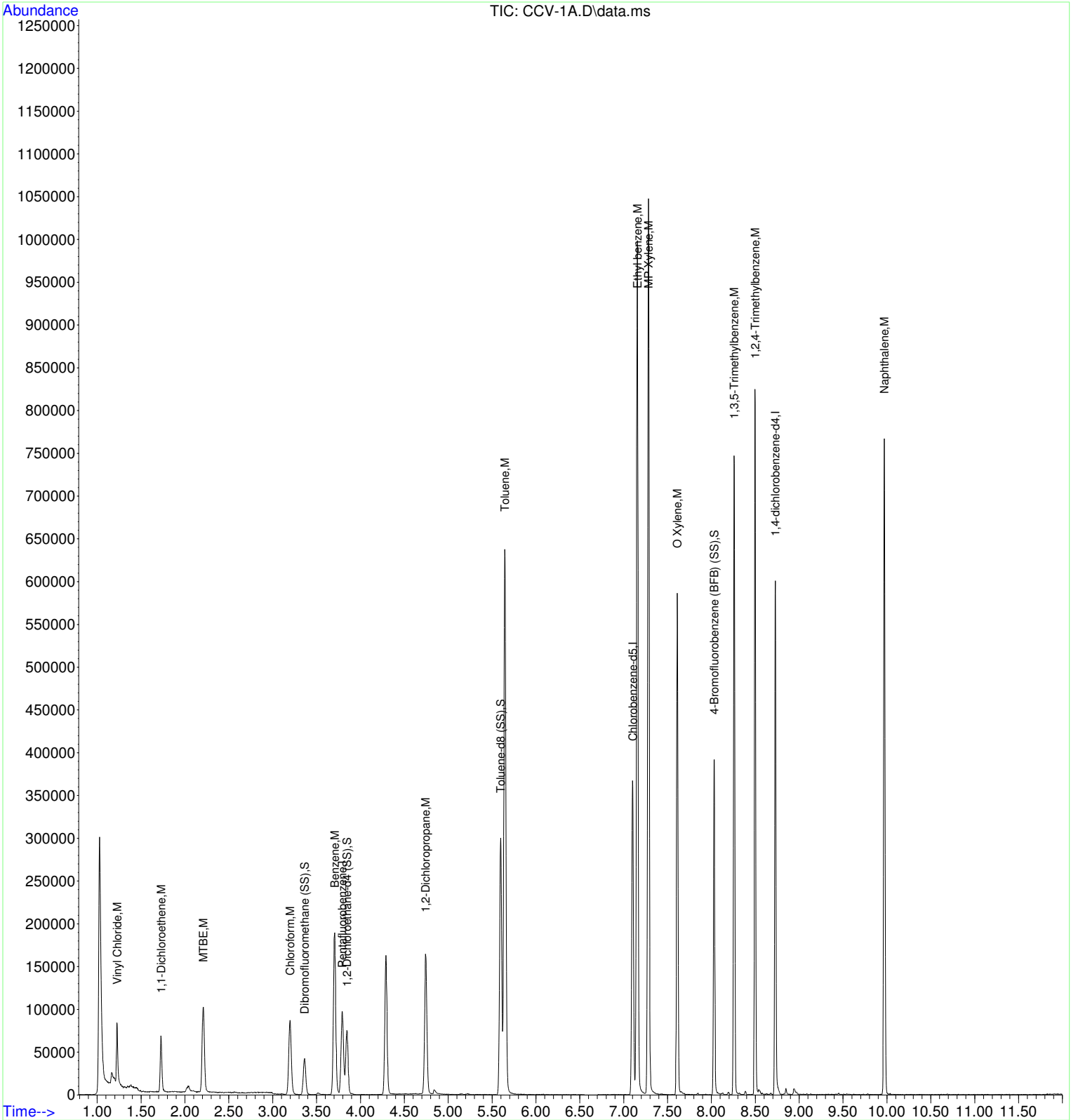
Quant Time: May 29 15:06:26 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.794	168	58902	50.00	ppb		0.01
42) Chlorobenzene-d5	7.101	117	136431	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	80758	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.363	111	25522	44.82	ppb		0.00
Spiked Amount 50.000			Recovery = 89.64%				
32) 1,2-Dichloroethane-d4 ...	3.846	102	6832	44.31	ppb		0.00
Spiked Amount 50.000			Recovery = 88.62%				
44) Toluene-d8 (SS)	5.598	98	167013	45.67	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.34%				
63) 4-Bromofluorobenzene (...	8.031	174	56259	42.31	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 84.62%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.231	62	50282	61.22	ppb	#	100
9) 1,1-Dichloroethene	1.729	96	10001	49.75	ppb	#	36
16) MTBE	2.209	73	55162	46.84	ppb	#	82
24) Chloroform	3.198	83	55229	48.36	ppb		95
30) Benzene	3.705	78	122341	58.83	ppb		88
37) 1,2-Dichloropropane	4.745	63	59393	49.56	ppb	#	96
43) Toluene	5.647	91	378317	108.51	ppb		95
55) Ethyl benzene	7.155	91	529590	114.82	ppb		95
57) MP Xylene	7.282	91	416013	115.10	ppb		96
58) O Xylene	7.612	91	223752	55.34	ppb		97
70) 1,3,5-Trimethylbenzene	8.259	105	242470	53.37	ppb		88
75) 1,2,4-Trimethylbenzene	8.498	105	255794	53.17	ppb		96
85) Naphthalene	9.971	128	356682	53.35	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-1A.D
Acq On : 28 May 2019 11:46 am
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 15:06:26 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\28may2019\
Data File : CCV-1A.D
Acq On : 28 May 2019 11:46 am
Operator : PS
Sample : CCV-1A
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 15:06:26 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	127	0.01
4	M	Vinyl Chloride	50.000	61.218	-22.4	137	0.00
9	M	1,1-Dichloroethene	50.000	49.753	0.5	133	0.05
16	M	MTBE	50.000	46.839	6.3	104	0.00
24	M	Chloroform	50.000	48.355	3.3	148	0.00
27	S	Dibromofluoromethane (SS)	50.000	44.822	10.4	118	0.00
30	M	Benzene	50.000	58.834	-17.7	129	0.01
32	S	1,2-Dichloroethane-d4 (SS)	50.000	44.312	11.4	112	0.00
37	M	1,2-Dichloropropane	50.000	49.563	0.9	121	0.00
42	I	Chlorobenzene-d5	50.000	50.000	0.0	146	0.00
43	M	Toluene	100.000	108.508	-8.5	153	0.00
44	S	Toluene-d8 (SS)	50.000	45.668	8.7	133	0.00
55	M	Ethyl benzene	100.000	114.824	-14.8	162	0.00
57	M	MP Xylene	100.000	115.099	-15.1	161	0.00
58	M	O Xylene	50.000	55.343	-10.7	155	0.00
62	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	162	0.00
63	S	4-Bromofluorobenzene (BFB)	50.000	42.305	15.4	136	0.00
70	M	1,3,5-Trimethylbenzene	50.000	53.373	-6.7	173	0.00
75	M	1,2,4-Trimethylbenzene	50.000	53.169	-6.3	170	0.00
85	M	Naphthalene	50.000	53.350	-6.7	160	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

VOC-DA-23MAY2019.M Wed May 29 15:09:06 2019

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-1.D
Acq On : 28 May 2019 12:24 pm
Operator : PS
Sample : MB-1
Misc :
ALS Vial : 3 Sample Multiplier: 1

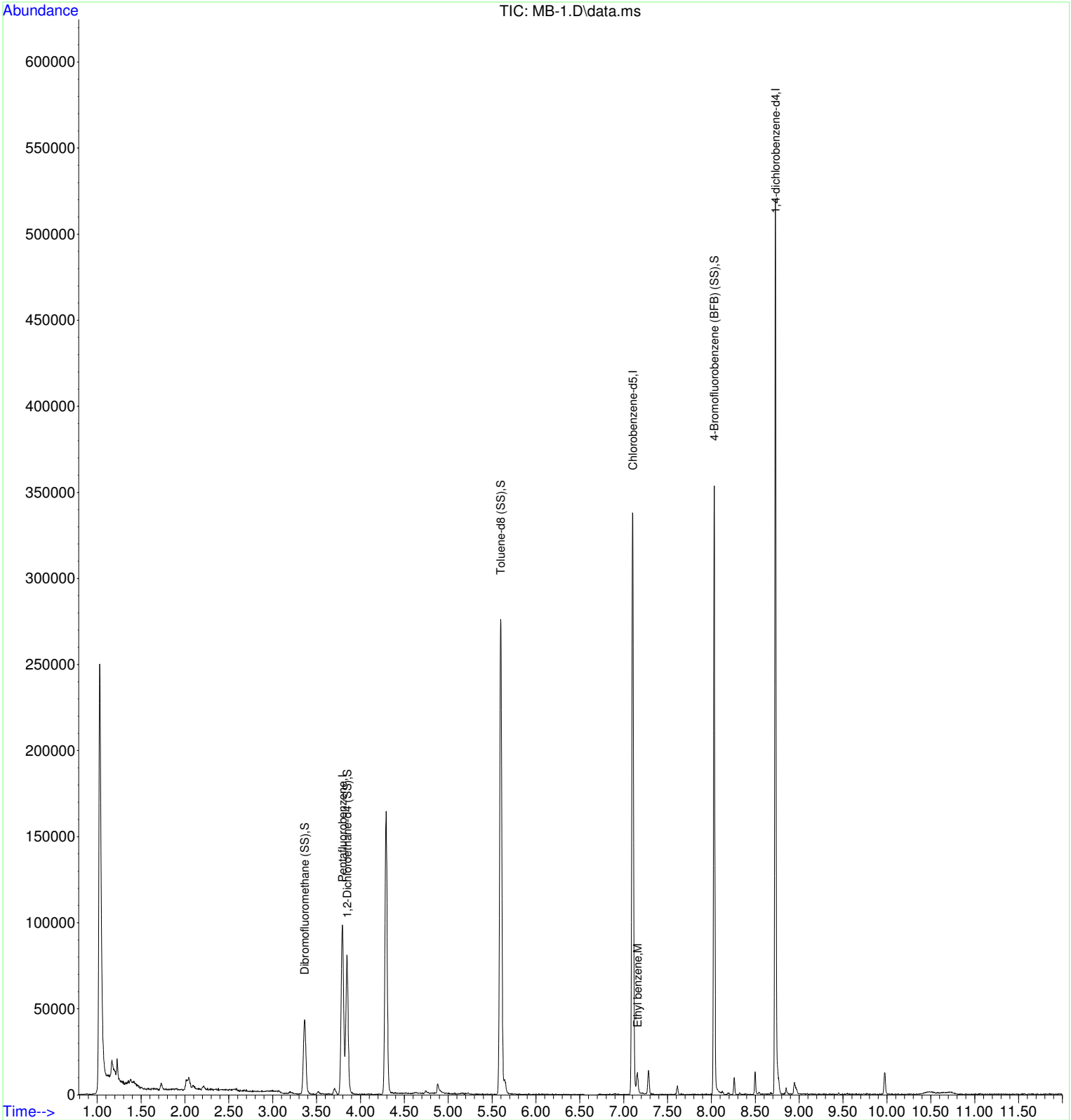
Quant Time: May 29 14:25:30 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.795	168	60994	50.00	ppb	0.01
42) Chlorobenzene-d5	7.103	117	124276	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.730	152	71365	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.364	111	27466	46.58	ppb	0.00
Spiked Amount 50.000			Recovery = 93.16%			
32) 1,2-Dichloroethane-d4 ...	3.848	102	7504	47.00	ppb	0.00
Spiked Amount 50.000			Recovery = 94.00%			
44) Toluene-d8 (SS)	5.598	98	152294	45.72	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.44%			
63) 4-Bromofluorobenzene (...	8.032	174	49339	41.98	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.96%			
Target Compounds						Qvalue
55) Ethyl benzene	7.156	91	5896	1.40	ppb	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : MB-1.D
Acq On : 28 May 2019 12:24 pm
Operator : PS
Sample : MB-1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 14:25:30 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-2.D
Acq On : 28 May 2019 6:53 pm
Operator : PS
Sample : LCS-2
Misc :
ALS Vial : 19 Sample Multiplier: 1

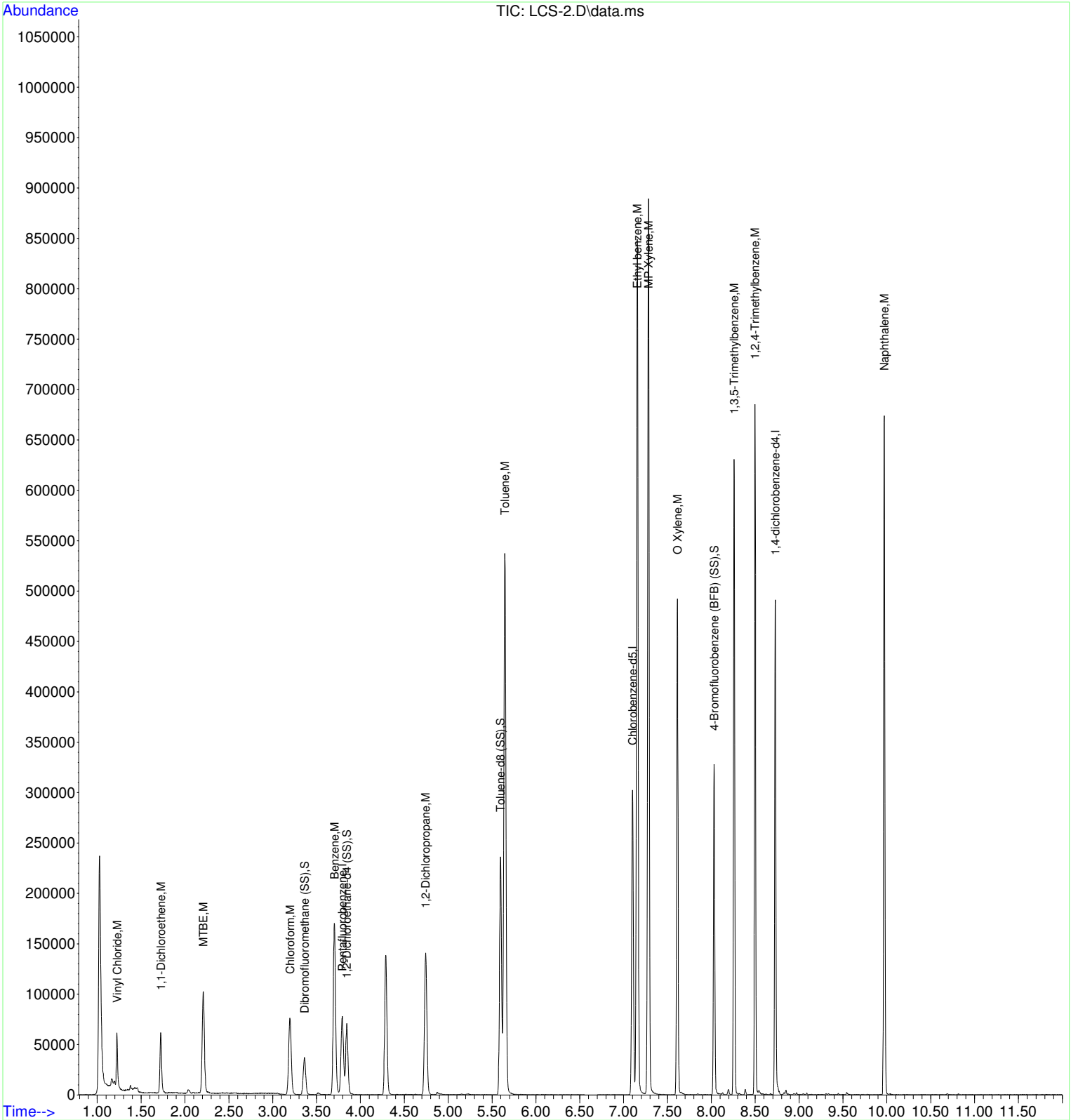
Quant Time: May 29 17:14:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:26:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.793	168	44503	50.00	ppb		0.00
42) Chlorobenzene-d5	7.102	117	112320	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.729	152	67642	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.362	111	22612	60.52	ppb		0.00
Spiked Amount 50.000			Recovery = 121.04%				
32) 1,2-Dichloroethane-d4 ...	3.845	102	6178	59.40	ppb		0.00
Spiked Amount 50.000			Recovery = 118.80%				
44) Toluene-d8 (SS)	5.598	98	131442	45.52	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 91.04%				
63) 4-Bromofluorobenzene (...	8.031	174	47480	43.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.88%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.229	62	36677	39.94	ppb	#	100
9) 1,1-Dichloroethene	1.725	96	9635	38.69	ppb	#	39
16) MTBE	2.209	73	58627	60.57	ppb	#	91
24) Chloroform	3.197	83	50915	51.47	ppb		96
30) Benzene	3.705	78	110922	58.72	ppb		88
37) 1,2-Dichloropropane	4.745	63	52879	56.35	ppb	#	97
43) Toluene	5.647	91	329299	101.31	ppb		96
55) Ethyl benzene	7.155	91	450150	105.78	ppb		95
57) MP Xylene	7.282	91	358175	99.95	ppb		96
58) O Xylene	7.612	91	189714	50.00	ppb		97
70) 1,3,5-Trimethylbenzene	8.260	105	206417	54.54	ppb		88
75) 1,2,4-Trimethylbenzene	8.498	105	217853	52.33	ppb		97
85) Naphthalene	9.971	128	307390	48.81	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : LCS-2.D
Acq On : 28 May 2019 6:53 pm
Operator : PS
Sample : LCS-2
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 29 17:14:41 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-26APR2019.M
Quant Title : VOC
QLast Update : Fri May 24 09:26:16 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2883.D
Acq On : 28 May 2019 2:57 pm
Operator : PS
Sample : 19-2883
Misc :
ALS Vial : 11 Sample Multiplier: 1

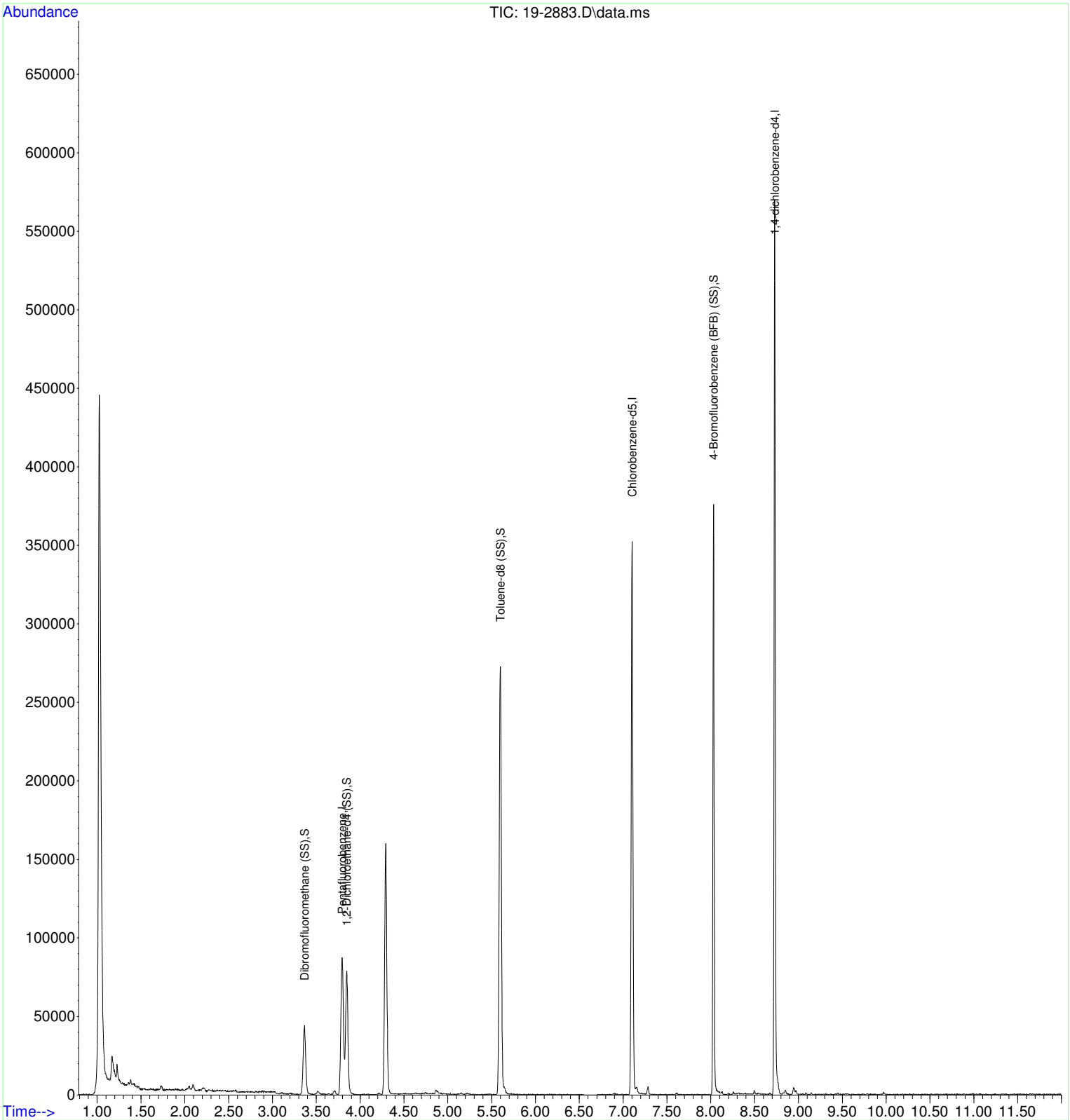
Quant Time: May 29 14:47:32 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	3.796	168	54592	50.00	ppb	0.01
42) Chlorobenzene-d5	7.102	117	128987	50.00	ppb	0.00
62) 1,4-dichlorobenzene-d4	8.730	152	76926	50.00	ppb	# 0.00
System Monitoring Compounds						
27) Dibromofluoromethane (SS)	3.365	111	26228	49.70	ppb	0.00
Spiked Amount 50.000			Recovery = 99.40%			
32) 1,2-Dichloroethane-d4 ...	3.847	102	7158	50.09	ppb	0.00
Spiked Amount 50.000			Recovery = 100.18%			
44) Toluene-d8 (SS)	5.598	98	153197	44.31	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.62%			
63) 4-Bromofluorobenzene (...	8.031	174	52650	41.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.12%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2883.D
Acq On : 28 May 2019 2:57 pm
Operator : PS
Sample : 19-2883
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 14:47:32 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2883-ms.D
Acq On : 29 May 2019 2:00 pm
Operator : PS
Sample : 19-2883-ms
Misc :
ALS Vial : 11 Sample Multiplier: 1

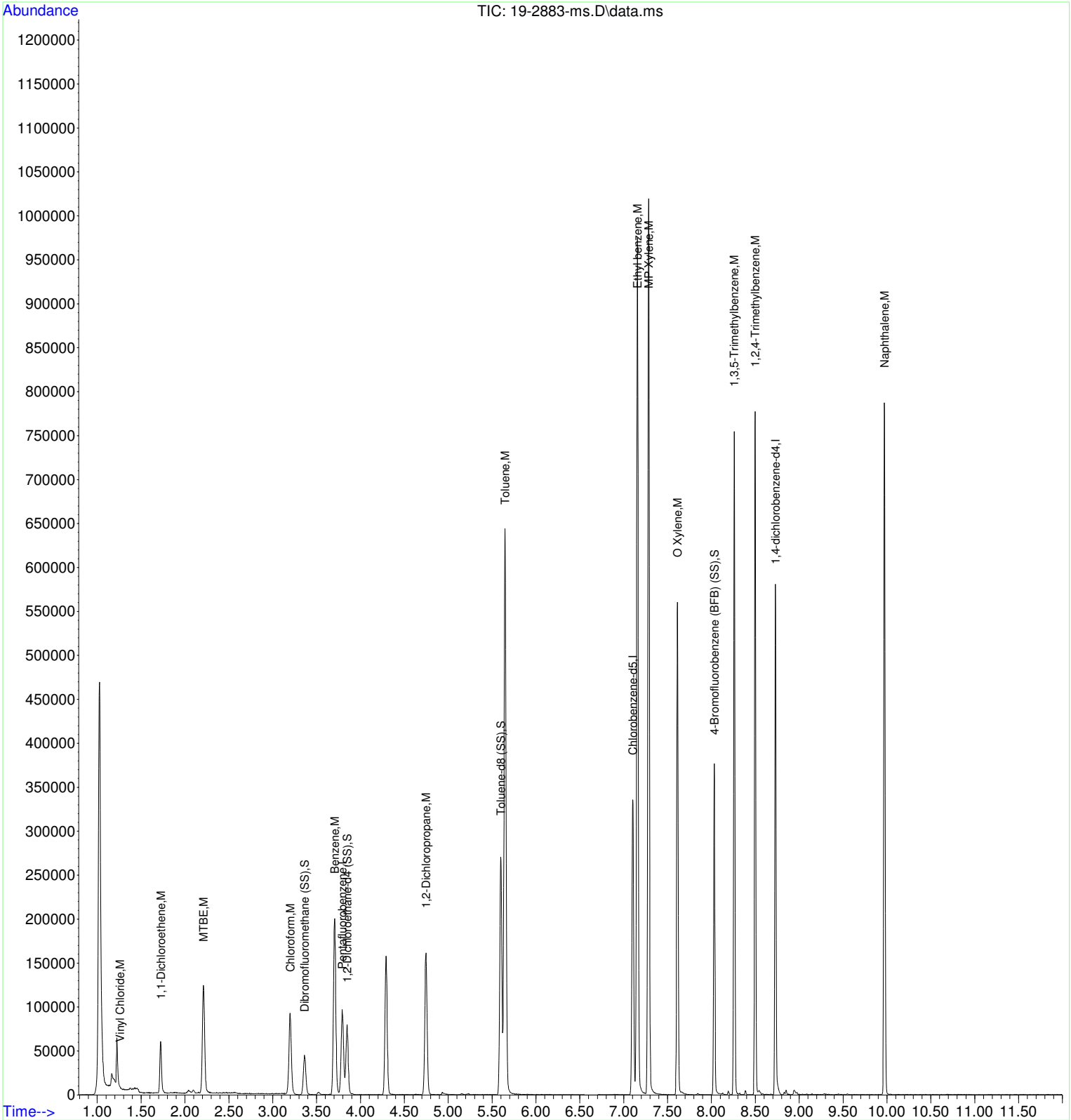
Quant Time: May 29 14:48:04 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.795	168	58393	50.00	ppb		0.01
42) Chlorobenzene-d5	7.104	117	125653	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	77574	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.364	111	27486	48.69	ppb		0.00
Spiked Amount 50.000			Recovery = 97.38%				
32) 1,2-Dichloroethane-d4 ...	3.849	102	6927	45.32	ppb		0.00
Spiked Amount 50.000			Recovery = 90.64%				
44) Toluene-d8 (SS)	5.599	98	150773	44.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 89.52%				
63) 4-Bromofluorobenzene (...	8.032	174	53347	41.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 83.52%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.260	62	40742m	49.23	ppb		
9) 1,1-Dichloroethene	1.724	96	9946	49.91	ppb	#	45
16) MTBE	2.212	73	68974	59.08	ppb	#	87
24) Chloroform	3.200	83	54971m	48.55	ppb		
30) Benzene	3.705	78	133695m	64.85	ppb		
37) 1,2-Dichloropropane	4.747	63	60614	51.02	ppb	#	96
43) Toluene	5.649	91	381970	118.95	ppb		96
55) Ethyl benzene	7.156	91	520576	122.55	ppb		95
57) MP Xylene	7.283	91	408910	122.84	ppb		96
58) O Xylene	7.613	91	217470	58.40	ppb		98
70) 1,3,5-Trimethylbenzene	8.260	105	230154	52.69	ppb		90
75) 1,2,4-Trimethylbenzene	8.498	105	244153	52.81	ppb		97
85) Naphthalene	9.972	128	361786	56.33	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2883-ms.D
Acq On : 29 May 2019 2:00 pm
Operator : PS
Sample : 19-2883-ms
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 29 14:48:04 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2884-msd-1.D
Acq On : 29 May 2019 4:05 pm
Operator : PS
Sample : 19-2884-msd-1
Misc :
ALS Vial : 1 Sample Multiplier: 1

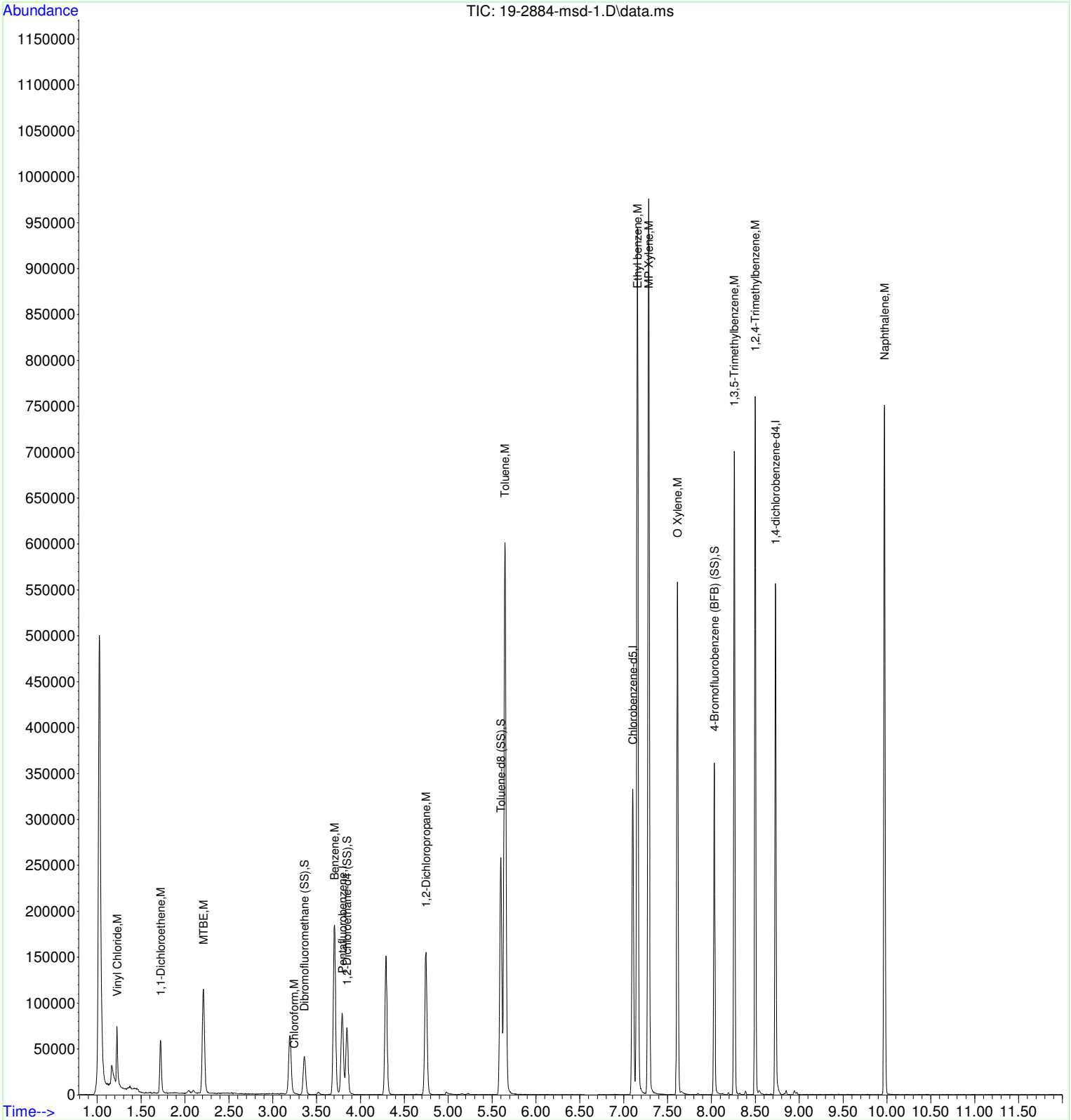
Quant Time: May 29 16:38:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	3.796	168	56345m	50.00	ppb		0.01
42) Chlorobenzene-d5	7.104	117	120483	50.00	ppb		0.00
62) 1,4-dichlorobenzene-d4	8.730	152	72278	50.00	ppb	#	0.00
System Monitoring Compounds							
27) Dibromofluoromethane (SS)	3.362	111	25465	46.75	ppb		0.00
Spiked Amount 50.000			Recovery = 93.50%				
32) 1,2-Dichloroethane-d4 ...	3.846	102	6629	44.95	ppb		0.00
Spiked Amount 50.000			Recovery = 89.90%				
44) Toluene-d8 (SS)	5.599	98	140285	43.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 86.88%				
63) 4-Bromofluorobenzene (...	8.033	174	50653	42.56	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 85.12%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.230	62	44391	56.11	ppb	#	100
9) 1,1-Dichloroethene	1.723	96	9335	48.55	ppb	#	41
16) MTBE	2.210	73	61468	54.56	ppb	#	83
24) Chloroform	3.243	83	39511m	36.16	ppb		
30) Benzene	3.704	78	123924	62.30	ppb		91
37) 1,2-Dichloropropane	4.746	63	57789	50.41	ppb	#	96
43) Toluene	5.648	91	362823	117.84	ppb		95
55) Ethyl benzene	7.157	91	496611	121.93	ppb		95
57) MP Xylene	7.284	91	389212	121.94	ppb		96
58) O Xylene	7.613	91	210297	58.90	ppb		97
70) 1,3,5-Trimethylbenzene	8.261	105	220579	54.32	ppb		90
75) 1,2,4-Trimethylbenzene	8.500	105	234731	54.61	ppb		97
85) Naphthalene	9.973	128	342663	57.27	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\28may2019\
Data File : 19-2884-msd-1.D
Acq On : 29 May 2019 4:05 pm
Operator : PS
Sample : 19-2884-msd-1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 16:38:09 2019
Quant Method : C:\msdchem\1\methods\VOC-DA-23MAY2019.M
Quant Title : VOC
QLast Update : Tue May 28 11:14:41 2019
Response via : Initial Calibration



Untitled
Spike Recovery and RPD Summary Report - WATER

Method Path : C:\msdchem\1\methods\
Method File : VOC-DA-23MAY2019.M
Title : VOC
Last Update : Tue May 28 11:14:41 2019
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\data\28may2019\

------Sample-------
File : 19-2883.D
Name : 19-2883 Acq Time: 28 May 2019 2:57 pm

------Spike--------
File : 19-2883-ms.D
Name : 19-2883-ms Acq Time: 29 May 2019 2:00 pm

--Spike Duplicate--
File : 19-2884-msd-1.D
Name : 19-2884-msd-1 Acq Time: 29 May 2019 4:05 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Vinyl Chloride	0.0	50	49	56	98	112	13	20	50-144
1,1-Dichloroethene	0.0	50	50	49	100	97	3	20	55-130
MTBE	0.0	50	59	55	118	109	8	20	58-130
Chloroform	0.0	50	49	36	97	72	29#	20	70-130
Benzene	0.8	50	65	62	128	123	4	20	70-130
1,2-Dichloropropane	0.0	50	51	50	102	101	1	20	70-130
Toluene	0.0	100	119	118	119	118	1	20	70-130
Ethyl benzene	0.4	100	123	122	122	122	1	20	70-130
MP Xylene	0.5	100	123	122	122	121	1	20	70-130
O Xylene	0.0	50	58	59	117	118	1	20	70-130
1,3,5-Trimethylbenze	0.0	50	53	54	105	109	3	20	70-130
1,2,4-Trimethylbenze	0.0	50	53	55	106	109	3	20	70-130
Naphthalene	0.0	50	56	57	113	115	2	20	56-130

- Fails Limit Check

VOC-DA-23MAY2019.M Wed May 29 16:46:59 2019

- Recoveries are within acceptable limits, matrix interference from sample.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 04, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 College / 19-146
Pace Project No.: 50225468

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants
Mr. Dan Rust, BCA Environmental Consultants, LLC

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CERTIFICATIONS

Project: 216 College / 19-146
Pace Project No.: 50225468

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50225468001	**SP-1**	Water	05/17/19 11:45	05/17/19 18:01
50225468002	**SP-3**	Water	05/17/19 13:10	05/17/19 18:01
50225468003	**SP-4**	Water	05/17/19 13:45	05/17/19 18:01
50225468004	**SP-5**	Water	05/17/19 10:23	05/17/19 18:01
50225468005	**SP-5 DUP**	Water	05/17/19 10:23	05/17/19 18:01
50225468006	**EQ Blank**	Water	05/17/19 14:50	05/17/19 18:01
50225468007	**SP-1 FIELD FILTERED**	Water	05/17/19 11:45	05/17/19 18:01
50225468008	**SP-4 FIELD FILTERED**	Water	05/17/19 13:45	05/17/19 18:01
50225468009	**SP-5 FIELD FILTERED**	Water	05/17/19 10:23	05/17/19 18:01

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50225468001	**SP-1**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468002	**SP-3**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468003	**SP-4**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468004	**SP-5**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468005	**SP-5 DUP**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468006	**EQ Blank**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225468001	**SP-1**					
EPA 6010	Arsenic	8.2J	ug/L	10.0	05/21/19 23:33	
EPA 6010	Barium	276	ug/L	10.0	05/21/19 23:33	
EPA 6010	Nickel	3.7J	ug/L	10.0	05/21/19 23:33	
EPA 6010	Zinc	3.5J	ug/L	20.0	05/21/19 23:33	
50225468002	**SP-3**					
EPA 6010	Antimony	3.9J	ug/L	6.0	05/21/19 23:45	
EPA 6010	Arsenic	10J	ug/L	10.0	05/21/19 23:45	
EPA 6010	Barium	203	ug/L	10.0	05/21/19 23:45	
EPA 6010	Beryllium	1.6J	ug/L	4.0	05/21/19 23:45	
EPA 6010	Cadmium	1.3J	ug/L	2.0	05/21/19 23:45	
EPA 6010	Chromium	44.6	ug/L	10.0	05/21/19 23:45	
EPA 6010	Copper	18.1	ug/L	10.0	05/21/19 23:45	
EPA 6010	Lead	33.2	ug/L	10.0	05/21/19 23:45	
EPA 6010	Nickel	29.4	ug/L	10.0	05/21/19 23:45	
EPA 6010	Zinc	69.2	ug/L	20.0	05/21/19 23:45	
EPA 6020	Thallium	0.18J	ug/L	1.0	06/01/19 14:17	
EPA 8270 by SIM	1-Methylnaphthalene	0.065J	ug/L	1.0	05/28/19 17:16	
EPA 8270 by SIM	2-Methylnaphthalene	0.071J	ug/L	1.0	05/28/19 17:16	
50225468003	**SP-4**					
EPA 6010	Arsenic	14.9	ug/L	10.0	05/21/19 23:47	
EPA 6010	Barium	607	ug/L	10.0	05/21/19 23:47	
EPA 6010	Beryllium	1.2J	ug/L	4.0	05/21/19 23:47	
EPA 6010	Cadmium	0.73J	ug/L	2.0	05/21/19 23:47	
EPA 6010	Chromium	22.7	ug/L	10.0	05/21/19 23:47	
EPA 6010	Copper	24.3	ug/L	10.0	05/21/19 23:47	
EPA 6010	Lead	26.4	ug/L	10.0	05/21/19 23:47	
EPA 6010	Nickel	18.0	ug/L	10.0	05/21/19 23:47	
EPA 6010	Zinc	68.1	ug/L	20.0	05/21/19 23:47	
EPA 6020	Thallium	0.22J	ug/L	1.0	06/01/19 14:22	
EPA 8270 by SIM	Fluorene	0.080J	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	1-Methylnaphthalene	10.6	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	2-Methylnaphthalene	18.1	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	Naphthalene	8.0	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	Phenanthrene	0.11J	ug/L	1.0	05/28/19 17:27	
50225468004	**SP-5**					
EPA 6010	Arsenic	12.4	ug/L	10.0	05/21/19 23:50	
EPA 6010	Barium	459	ug/L	10.0	05/21/19 23:50	
EPA 6010	Cadmium	0.58J	ug/L	2.0	05/21/19 23:50	
EPA 6010	Chromium	2.8J	ug/L	10.0	05/21/19 23:50	
EPA 6010	Nickel	5.8J	ug/L	10.0	05/21/19 23:50	
EPA 6010	Zinc	12.7J	ug/L	20.0	05/21/19 23:50	
EPA 8270 by SIM	Acenaphthene	0.066J	ug/L	1.0	05/28/19 17:39	
EPA 8270 by SIM	1-Methylnaphthalene	0.38J	ug/L	1.0	05/28/19 17:39	
EPA 8270 by SIM	2-Methylnaphthalene	0.31J	ug/L	1.0	05/28/19 17:39	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225468005	**SP-5 DUP**					
EPA 6010	Arsenic	12.1	ug/L	10.0	05/21/19 23:52	
EPA 6010	Barium	460	ug/L	10.0	05/21/19 23:52	
EPA 6010	Cadmium	0.59J	ug/L	2.0	05/21/19 23:52	
EPA 6010	Chromium	3.4J	ug/L	10.0	05/21/19 23:52	
EPA 6010	Nickel	6.8J	ug/L	10.0	05/21/19 23:52	
EPA 6010	Zinc	15.7J	ug/L	20.0	05/21/19 23:52	
EPA 8270 by SIM	1-Methylnaphthalene	0.47J	ug/L	1.0	05/28/19 17:50	
EPA 8270 by SIM	2-Methylnaphthalene	0.39J	ug/L	1.0	05/28/19 17:50	
EPA 8270 by SIM	Phenanthrene	0.053J	ug/L	1.0	05/28/19 17:50	
50225468006	**EQ Blank**					
EPA 6010	Zinc	1.6J	ug/L	20.0	05/24/19 22:58	
EPA 8270 by SIM	Naphthalene	0.096J	ug/L	1.0	05/28/19 18:01	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:33	7440-36-0	
Arsenic	**8.2J**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:33	7440-38-2	
Barium	**276**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:33	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:33	7440-41-7	
Cadmium	**<0.44**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:33	7440-43-9	
Chromium	**<1.1**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:33	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:33	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:33	7439-92-1	
Nickel	**3.7J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:33	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:33	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:33	7440-22-4	
Zinc	**3.5J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:33	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 12:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 19:45	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 16:41	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 16:41	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 16:41	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 16:41	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 16:41	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 16:41	205-99-2	R1
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 16:41	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 16:41	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 16:41	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 16:41	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 16:41	206-44-0	R1
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 16:41	86-73-7	R1
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 16:41	193-39-5	
1-Methylnaphthalene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 16:41	90-12-0	
2-Methylnaphthalene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 16:41	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 16:41	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 16:41	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 16:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%.	10-83		1	05/22/19 09:23	05/28/19 16:41	321-60-8	
p-Terphenyl-d14 (S)	89	%.	28-125		1	05/22/19 09:23	05/28/19 16:41	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 20:11	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 20:11	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 20:11	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 20:11	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 20:11	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 20:11	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 20:11	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 20:11	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 20:11	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 20:11	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 20:11	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 20:11	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 20:11	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 20:11	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 20:11	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 20:11	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 20:11	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 20:11	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 20:11	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 20:11	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 20:11	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 20:11	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 20:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	85	%.	15-115		1	05/22/19 09:23	05/24/19 20:11	4165-60-0	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	40	%.	10-65		1	05/22/19 09:23	05/24/19 20:11	4165-62-2	
2-Fluorophenol (S)	58	%.	10-82		1	05/22/19 09:23	05/24/19 20:11	367-12-4	
2,4,6-Tribromophenol (S)	93	%.	29-134		1	05/22/19 09:23	05/24/19 20:11	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**3.9J**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:45	7440-36-0	
Arsenic	**10J**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:45	7440-38-2	
Barium	**203**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:45	7440-39-3	
Beryllium	**1.6J**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:45	7440-41-7	
Cadmium	**1.3J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:45	7440-43-9	
Chromium	**44.6**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:45	7440-47-3	
Copper	**18.1**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:45	7440-50-8	
Lead	**33.2**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:45	7439-92-1	
Nickel	**29.4**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:45	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:45	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:45	7440-22-4	
Zinc	**69.2**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**0.18J**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 19:58	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:16	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:16	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:16	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:16	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:16	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:16	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:16	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:16	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:16	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:16	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:16	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:16	193-39-5	
1-Methylnaphthalene	**0.065J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:16	90-12-0	
2-Methylnaphthalene	**0.071J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:16	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:16	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:16	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%.	10-83		1	05/22/19 09:23	05/28/19 17:16	321-60-8	
p-Terphenyl-d14 (S)	66	%.	28-125		1	05/22/19 09:23	05/28/19 17:16	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:00	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:00	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:00	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:00	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:00	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:00	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:00	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:00	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:00	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:00	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:00	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:00	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:00	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:00	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:00	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:00	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:00	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:00	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:00	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:00	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:00	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:00	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	15-115		1	05/22/19 09:23	05/24/19 21:00	4165-60-0	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	45	%.	10-65		1	05/22/19 09:23	05/24/19 21:00	4165-62-2	
2-Fluorophenol (S)	59	%.	10-82		1	05/22/19 09:23	05/24/19 21:00	367-12-4	
2,4,6-Tribromophenol (S)	88	%.	29-134		1	05/22/19 09:23	05/24/19 21:00	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:47	7440-36-0	
Arsenic	**14.9**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:47	7440-38-2	
Barium	**607**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:47	7440-39-3	
Beryllium	**1.2J**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:47	7440-41-7	
Cadmium	**0.73J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:47	7440-43-9	
Chromium	**22.7**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:47	7440-47-3	
Copper	**24.3**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:47	7440-50-8	
Lead	**26.4**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:47	7439-92-1	
Nickel	**18.0**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:47	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:47	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:47	7440-22-4	
Zinc	**68.1**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**0.22J**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:00	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:27	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:27	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:27	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:27	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:27	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:27	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:27	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:27	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:27	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:27	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:27	206-44-0	
Fluorene	**0.080J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:27	193-39-5	
1-Methylnaphthalene	**10.6**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:27	90-12-0	
2-Methylnaphthalene	**18.1**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:27	91-57-6	
Naphthalene	**8.0**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:27	91-20-3	
Phenanthrene	**0.11J**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:27	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%.	10-83		1	05/22/19 09:23	05/28/19 17:27	321-60-8	
p-Terphenyl-d14 (S)	76	%.	28-125		1	05/22/19 09:23	05/28/19 17:27	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:17	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:17	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:17	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:17	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:17	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:17	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:17	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:17	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:17	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:17	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:17	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:17	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:17	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:17	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:17	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:17	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:17	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:17	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:17	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:17	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:17	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:17	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	101	%.	15-115		1	05/22/19 09:23	05/24/19 21:17	4165-60-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	51	%.	10-65		1	05/22/19 09:23	05/24/19 21:17	4165-62-2	
2-Fluorophenol (S)	71	%.	10-82		1	05/22/19 09:23	05/24/19 21:17	367-12-4	
2,4,6-Tribromophenol (S)	119	%.	29-134		1	05/22/19 09:23	05/24/19 21:17	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:50	7440-36-0	
Arsenic	**12.4**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:50	7440-38-2	
Barium	**459**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:50	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:50	7440-41-7	
Cadmium	**0.58J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:50	7440-43-9	
Chromium	**2.8J**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:50	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:50	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:50	7439-92-1	
Nickel	**5.8J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:50	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:50	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:50	7440-22-4	
Zinc	**12.7J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:02	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**0.066J**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:39	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:39	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:39	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:39	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:39	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:39	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:39	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:39	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:39	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:39	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:39	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:39	193-39-5	
1-Methylnaphthalene	**0.38J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:39	90-12-0	
2-Methylnaphthalene	**0.31J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:39	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:39	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:39	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%.	10-83		1	05/22/19 09:23	05/28/19 17:39	321-60-8	
p-Terphenyl-d14 (S)	87	%.	28-125		1	05/22/19 09:23	05/28/19 17:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:33	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:33	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:33	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:33	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:33	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:33	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:33	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:33	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:33	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:33	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:33	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:33	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:33	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:33	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:33	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:33	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:33	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:33	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:33	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:33	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:33	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:33	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:33	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	88	%.	15-115		1	05/22/19 09:23	05/24/19 21:33	4165-60-0	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	48	%.	10-65		1	05/22/19 09:23	05/24/19 21:33	4165-62-2	
2-Fluorophenol (S)	64	%.	10-82		1	05/22/19 09:23	05/24/19 21:33	367-12-4	
2,4,6-Tribromophenol (S)	102	%.	29-134		1	05/22/19 09:23	05/24/19 21:33	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:52	7440-36-0	
Arsenic	**12.1**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:52	7440-38-2	
Barium	**460**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:52	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:52	7440-41-7	
Cadmium	**0.59J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:52	7440-43-9	
Chromium	**3.4J**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:52	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:52	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:52	7439-92-1	
Nickel	**6.8J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:52	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:52	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:52	7440-22-4	
Zinc	**15.7J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:52	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:04	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:50	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:50	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:50	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:50	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:50	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:50	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:50	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:50	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:50	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:50	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:50	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:50	193-39-5	
1-Methylnaphthalene	**0.47J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:50	90-12-0	
2-Methylnaphthalene	**0.39J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:50	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:50	91-20-3	
Phenanthrene	**0.053J**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:50	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%.	10-83		1	05/22/19 09:23	05/28/19 17:50	321-60-8	
p-Terphenyl-d14 (S)	72	%.	28-125		1	05/22/19 09:23	05/28/19 17:50	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:50	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:50	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:50	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:50	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:50	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:50	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:50	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:50	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:50	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:50	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:50	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:50	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:50	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:50	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:50	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:50	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:50	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:50	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:50	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:50	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:50	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:50	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	92	%.	15-115		1	05/22/19 09:23	05/24/19 21:50	4165-60-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	47	%.	10-65		1	05/22/19 09:23	05/24/19 21:50	4165-62-2	
2-Fluorophenol (S)	62	%.	10-82		1	05/22/19 09:23	05/24/19 21:50	367-12-4	
2,4,6-Tribromophenol (S)	100	%.	29-134		1	05/22/19 09:23	05/24/19 21:50	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/24/19 13:15	05/24/19 22:58	7440-36-0	
Arsenic	**<4.3**	ug/L	10.0	4.3	1	05/24/19 13:15	05/24/19 22:58	7440-38-2	
Barium	**<0.66**	ug/L	10.0	0.66	1	05/24/19 13:15	05/24/19 22:58	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/24/19 13:15	05/24/19 22:58	7440-41-7	
Cadmium	**<0.44**	ug/L	2.0	0.44	1	05/24/19 13:15	05/24/19 22:58	7440-43-9	
Chromium	**<1.1**	ug/L	10.0	1.1	1	05/24/19 13:15	05/24/19 22:58	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/24/19 13:15	05/24/19 22:58	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/24/19 13:15	05/24/19 22:58	7439-92-1	
Nickel	**<1.0**	ug/L	10.0	1.0	1	05/24/19 13:15	05/24/19 22:58	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/24/19 13:15	05/24/19 22:58	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/24/19 13:15	05/24/19 22:58	7440-22-4	
Zinc	**1.6J**	ug/L	20.0	1.1	1	05/24/19 13:15	05/24/19 22:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/23/19 22:50	05/24/19 09:28	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 18:01	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 18:01	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 18:01	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 18:01	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 18:01	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 18:01	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 18:01	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 18:01	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 18:01	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 18:01	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 18:01	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 18:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 18:01	193-39-5	
1-Methylnaphthalene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 18:01	90-12-0	
2-Methylnaphthalene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 18:01	91-57-6	
Naphthalene	**0.096J**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 18:01	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 18:01	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 18:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	42	%.	10-83		1	05/22/19 09:23	05/28/19 18:01	321-60-8	
p-Terphenyl-d14 (S)	60	%.	28-125		1	05/22/19 09:23	05/28/19 18:01	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 22:06	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 22:06	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 22:06	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 22:06	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 22:06	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 22:06	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 22:06	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 22:06	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 22:06	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 22:06	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 22:06	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 22:06	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 22:06	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 22:06	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 22:06	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 22:06	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 22:06	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 22:06	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 22:06	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 22:06	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 22:06	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 22:06	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 22:06	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	59	%.	15-115		1	05/22/19 09:23	05/24/19 22:06	4165-60-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	29	%.	10-65		1	05/22/19 09:23	05/24/19 22:06	4165-62-2	
2-Fluorophenol (S)	39	%.	10-82		1	05/22/19 09:23	05/24/19 22:06	367-12-4	
2,4,6-Tribromophenol (S)	70	%.	29-134		1	05/22/19 09:23	05/24/19 22:06	118-79-6	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 501889 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

METHOD BLANK: 2315928 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.069	2.0	0.069	05/28/19 19:05	

LABORATORY CONTROL SAMPLE: 2315929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315930 2315931

Parameter	Units	50225442011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.3	93	86	75-125	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315932 2315933

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.069	5	5	5.3	5.0	105	100	75-125	5	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502148
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 50225468006

METHOD BLANK: 2317087 Matrix: Water
Associated Lab Samples: 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.069	2.0	0.069	05/24/19 09:22	

LABORATORY CONTROL SAMPLE: 2317088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317089 2317090

Parameter	Units	50225773003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.9	97	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 501305 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

METHOD BLANK: 2313609 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<3.3	6.0	3.3	05/21/19 22:45	
Arsenic	ug/L	<4.3	10.0	4.3	05/21/19 22:45	
Barium	ug/L	<0.66	10.0	0.66	05/21/19 22:45	
Beryllium	ug/L	<0.24	4.0	0.24	05/21/19 22:45	
Cadmium	ug/L	<0.44	2.0	0.44	05/21/19 22:45	
Chromium	ug/L	<1.1	10.0	1.1	05/21/19 22:45	
Copper	ug/L	<2.7	10.0	2.7	05/21/19 22:45	
Lead	ug/L	<3.5	10.0	3.5	05/21/19 22:45	
Nickel	ug/L	<1.0	10.0	1.0	05/21/19 22:45	
Selenium	ug/L	<5.2	10.0	5.2	05/21/19 22:45	
Silver	ug/L	<1.2	10.0	1.2	05/21/19 22:45	
Zinc	ug/L	1.5J	20.0	1.1	05/21/19 22:45	

LABORATORY CONTROL SAMPLE: 2313610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Arsenic	ug/L	1000	971	97	80-120	
Barium	ug/L	1000	969	97	80-120	
Beryllium	ug/L	1000	986	99	80-120	
Cadmium	ug/L	1000	978	98	80-120	
Chromium	ug/L	1000	977	98	80-120	
Copper	ug/L	1000	958	96	80-120	
Lead	ug/L	1000	925	93	80-120	
Nickel	ug/L	1000	985	99	80-120	
Selenium	ug/L	1000	979	98	80-120	
Silver	ug/L	500	473	95	80-120	
Zinc	ug/L	1000	976	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313611 2313612

Parameter	Units	50225400001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	972	972	97	97	75-125	0	20	
Arsenic	ug/L	15.4	1000	1000	1010	1010	99	99	75-125	0	20	
Barium	ug/L	202	1000	1000	1160	1160	95	96	75-125	0	20	
Beryllium	ug/L	ND	1000	1000	955	960	95	96	75-125	0	20	
Cadmium	ug/L	2.1	1000	1000	981	987	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313611 2313612

Parameter	Units	50225400001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	57.8	1000	1000	967	976	91	92	75-125	1	20	
Copper	ug/L	95.5	1000	1000	1040	1040	94	95	75-125	0	20	
Lead	ug/L	137	1000	1000	956	961	82	82	75-125	1	20	
Nickel	ug/L	109	1000	1000	982	989	87	88	75-125	1	20	
Selenium	ug/L	ND	1000	1000	986	986	99	99	75-125	0	20	
Silver	ug/L	ND	500	500	486	488	97	98	75-125	1	20	
Zinc	ug/L	401	1000	1000	1280	1290	88	89	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313613 2313614

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<3.3	1000	1000	1010	1010	101	101	75-125	0	20	
Arsenic	ug/L	8.2J	1000	1000	1020	1010	101	100	75-125	1	20	
Barium	ug/L	276	1000	1000	1250	1250	97	97	75-125	0	20	
Beryllium	ug/L	<0.24	1000	1000	981	988	98	99	75-125	1	20	
Cadmium	ug/L	<0.44	1000	1000	990	994	99	99	75-125	0	20	
Chromium	ug/L	<1.1	1000	1000	941	946	94	95	75-125	0	20	
Copper	ug/L	<2.7	1000	1000	956	952	95	95	75-125	0	20	
Lead	ug/L	<3.5	1000	1000	846	845	85	84	75-125	0	20	
Nickel	ug/L	3.7J	1000	1000	909	914	91	91	75-125	1	20	
Selenium	ug/L	<5.2	1000	1000	1000	1000	100	100	75-125	0	20	
Silver	ug/L	<1.2	500	500	488	488	98	98	75-125	0	20	
Zinc	ug/L	3.5J	1000	1000	942	944	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502070
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50225468006

METHOD BLANK: 2316804 Matrix: Water
Associated Lab Samples: 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<3.3	6.0	3.3	05/24/19 22:35	
Arsenic	ug/L	<4.3	10.0	4.3	05/24/19 22:35	
Barium	ug/L	<0.66	10.0	0.66	05/24/19 22:35	
Beryllium	ug/L	<0.24	4.0	0.24	05/24/19 22:35	
Cadmium	ug/L	<0.44	2.0	0.44	05/24/19 22:35	
Chromium	ug/L	<1.1	10.0	1.1	05/24/19 22:35	
Copper	ug/L	<2.7	10.0	2.7	05/24/19 22:35	
Lead	ug/L	<3.5	10.0	3.5	05/24/19 22:35	
Nickel	ug/L	<1.0	10.0	1.0	05/24/19 22:35	
Selenium	ug/L	<5.2	10.0	5.2	05/24/19 22:35	
Silver	ug/L	<1.2	10.0	1.2	05/24/19 22:35	
Zinc	ug/L	2.2J	20.0	1.1	05/24/19 22:35	

LABORATORY CONTROL SAMPLE: 2316805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Arsenic	ug/L	1000	953	95	80-120	
Barium	ug/L	1000	977	98	80-120	
Beryllium	ug/L	1000	1010	101	80-120	
Cadmium	ug/L	1000	986	99	80-120	
Chromium	ug/L	1000	957	96	80-120	
Copper	ug/L	1000	957	96	80-120	
Lead	ug/L	1000	933	93	80-120	
Nickel	ug/L	1000	976	98	80-120	
Selenium	ug/L	1000	968	97	80-120	
Silver	ug/L	500	475	95	80-120	
Zinc	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316806 2316807

Parameter	Units	50225740008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	30.5	5000	5000	3290	3250	65	64	75-125	1	20	M3
Arsenic	ug/L	789	5000	5000	5330	5250	91	89	75-125	2	20	
Barium	ug/L	1940	5000	5000	6540	6500	92	91	75-125	1	20	
Beryllium	ug/L	21.5	5000	5000	4680	4670	93	93	75-125	0	20	
Cadmium	ug/L	13.8	5000	5000	4720	4670	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316806 2316807

Parameter	Units	50225740008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	752	5000	5000	5080	5020	87	85	75-125	1	20	
Copper	ug/L	1450	5000	5000	6080	5960	93	90	75-125	2	20	
Lead	ug/L	637	5000	5000	4490	4450	77	76	75-125	1	20	
Nickel	ug/L	766	5000	5000	4820	4780	81	80	75-125	1	20	
Selenium	ug/L	ND	5000	5000	4490	4500	90	90	75-125	0	20	
Silver	ug/L	ND	2500	2500	2370	2350	95	94	75-125	1	20	
Zinc	ug/L	2860	5000	5000	6990	6760	83	78	75-125	3	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 503006 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2321049 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Thallium	ug/L	<0.040	1.0	0.040	06/01/19 11:52	

LABORATORY CONTROL SAMPLE: 2321050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	40	40.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321051 2321052

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	<0.040	40	40	40.5	41.5	101	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502357 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH Low Volume
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2318323 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.045	1.0	0.045	05/24/19 18:56	
2-Methylnaphthalene	ug/L	<0.044	1.0	0.044	05/24/19 18:56	
Acenaphthene	ug/L	<0.032	1.0	0.032	05/24/19 18:56	
Acenaphthylene	ug/L	<0.045	1.0	0.045	05/24/19 18:56	
Anthracene	ug/L	<0.040	0.10	0.040	05/24/19 18:56	
Benzo(a)anthracene	ug/L	<0.042	0.10	0.042	05/24/19 18:56	
Benzo(a)pyrene	ug/L	<0.043	0.10	0.043	05/24/19 18:56	
Benzo(b)fluoranthene	ug/L	<0.038	0.10	0.038	05/24/19 18:56	
Benzo(g,h,i)perylene	ug/L	<0.029	0.10	0.029	05/24/19 18:56	
Benzo(k)fluoranthene	ug/L	<0.042	0.10	0.042	05/24/19 18:56	
Chrysene	ug/L	<0.056	0.50	0.056	05/24/19 18:56	
Dibenz(a,h)anthracene	ug/L	<0.032	0.10	0.032	05/24/19 18:56	
Fluoranthene	ug/L	<0.029	1.0	0.029	05/24/19 18:56	
Fluorene	ug/L	<0.044	1.0	0.044	05/24/19 18:56	
Indeno(1,2,3-cd)pyrene	ug/L	<0.031	0.10	0.031	05/24/19 18:56	
Naphthalene	ug/L	<0.053	1.0	0.053	05/24/19 18:56	
Phenanthrene	ug/L	<0.052	1.0	0.052	05/24/19 18:56	
Pyrene	ug/L	<0.034	1.0	0.034	05/24/19 18:56	
2-Fluorobiphenyl (S)	%.	54	10-83		05/24/19 18:56	
p-Terphenyl-d14 (S)	%.	72	28-125		05/24/19 18:56	

LABORATORY CONTROL SAMPLE: 2318324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.4	54	20-92	
2-Methylnaphthalene	ug/L	10	5.3	53	18-98	
Acenaphthene	ug/L	10	5.8	58	21-102	
Acenaphthylene	ug/L	10	6.3	63	23-118	
Anthracene	ug/L	10	6.1	61	29-119	
Benzo(a)anthracene	ug/L	10	6.4	64	36-131	
Benzo(a)pyrene	ug/L	10	5.2	52	31-121	
Benzo(b)fluoranthene	ug/L	10	6.8	68	32-130	
Benzo(g,h,i)perylene	ug/L	10	4.5	45	23-118	
Benzo(k)fluoranthene	ug/L	10	5.4	54	33-127	
Chrysene	ug/L	10	6.0	60	41-118	
Dibenz(a,h)anthracene	ug/L	10	4.9	49	25-121	
Fluoranthene	ug/L	10	6.8	68	36-128	
Fluorene	ug/L	10	6.4	64	26-114	
Indeno(1,2,3-cd)pyrene	ug/L	10	5.1	51	26-119	
Naphthalene	ug/L	10	5.3	53	19-97	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

LABORATORY CONTROL SAMPLE: 2318324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.4	64	32-115	
Pyrene	ug/L	10	6.7	67	36-123	
2-Fluorobiphenyl (S)	%.			56	10-83	
p-Terphenyl-d14 (S)	%.			63	28-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318325 2318326

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.045	10	10	6.3	6.1	63	61	15-88	2	20	
2-Methylnaphthalene	ug/L	<0.044	10	10	6.1	6.0	61	60	19-92	3	20	
Acenaphthene	ug/L	<0.032	10	10	6.4	6.2	64	62	13-91	3	20	
Acenaphthylene	ug/L	<0.045	10	10	6.1	7.2	61	72	10-110	16	20	
Anthracene	ug/L	<0.040	10	10	6.9	7.1	69	71	18-111	3	20	
Benzo(a)anthracene	ug/L	<0.042	10	10	7.4	7.2	74	72	36-113	3	20	
Benzo(a)pyrene	ug/L	<0.043	10	10	6.1	6.7	61	67	22-92	9	20	
Benzo(b)fluoranthene	ug/L	<0.038	10	10	6.8	8.6	68	86	28-104	23	20	R1
Benzo(g,h,i)perylene	ug/L	<0.029	10	10	5.0	5.7	50	57	10-83	13	20	
Benzo(k)fluoranthene	ug/L	<0.042	10	10	6.3	5.7	63	57	19-98	9	20	
Chrysene	ug/L	<0.056	10	10	7.1	7.5	71	75	36-100	6	20	
Dibenz(a,h)anthracene	ug/L	<0.032	10	10	5.5	6.3	55	63	12-88	14	20	
Fluoranthene	ug/L	<0.029	10	10	5.2	11.2	52	112	41-114	74	20	R1
Fluorene	ug/L	<0.044	10	10	6.8	4.8	68	48	21-104	36	20	R1
Indeno(1,2,3-cd)pyrene	ug/L	<0.031	10	10	5.5	6.2	55	62	13-88	11	20	
Naphthalene	ug/L	<0.053	10	10	6.2	6.2	62	62	14-92	0	20	
Phenanthrene	ug/L	<0.052	10	10	6.6	6.5	66	65	29-105	1	20	
Pyrene	ug/L	<0.034	10	10	7.9	8.3	79	83	29-112	4	20	
2-Fluorobiphenyl (S)	%.						37	41	10-83			
p-Terphenyl-d14 (S)	%.						65	79	28-125			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502356 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Scan LV
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2318319 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	<2.9	10.0	2.9	05/24/19 17:43	
2,4,6-Trichlorophenol	ug/L	<3.2	10.0	3.2	05/24/19 17:43	
2,4-Dichlorophenol	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
2,4-Dimethylphenol	ug/L	<3.9	10.0	3.9	05/24/19 17:43	
2,4-Dinitrophenol	ug/L	<3.8	50.0	3.8	05/24/19 17:43	
2,4-Dinitrotoluene	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
2,6-Dinitrotoluene	ug/L	<3.4	10.0	3.4	05/24/19 17:43	
2-Chloronaphthalene	ug/L	<4.1	10.0	4.1	05/24/19 17:43	
2-Chlorophenol	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
2-Methylphenol(o-Cresol)	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
2-Nitroaniline	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
2-Nitrophenol	ug/L	<2.8	10.0	2.8	05/24/19 17:43	
3&4-Methylphenol(m&p Cresol)	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
3,3'-Dichlorobenzidine	ug/L	<3.5	20.0	3.5	05/24/19 17:43	
3-Nitroaniline	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
4,6-Dinitro-2-methylphenol	ug/L	<4.9	20.0	4.9	05/24/19 17:43	
4-Bromophenylphenyl ether	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
4-Chloro-3-methylphenol	ug/L	<2.9	10.0	2.9	05/24/19 17:43	
4-Chloroaniline	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
4-Chlorophenylphenyl ether	ug/L	<3.8	10.0	3.8	05/24/19 17:43	
4-Nitroaniline	ug/L	<2.8	10.0	2.8	05/24/19 17:43	
4-Nitrophenol	ug/L	<2.5	50.0	2.5	05/24/19 17:43	
Benzyl alcohol	ug/L	<2.4	10.0	2.4	05/24/19 17:43	
bis(2-Chloroethoxy)methane	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
bis(2-Chloroethyl) ether	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
bis(2-Ethylhexyl)phthalate	ug/L	<4.4	10.0	4.4	05/24/19 17:43	
bis(2chloro1methylethyl) ether	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Butylbenzylphthalate	ug/L	<4.2	10.0	4.2	05/24/19 17:43	
Di-n-butylphthalate	ug/L	<3.1	10.0	3.1	05/24/19 17:43	
Di-n-octylphthalate	ug/L	<6.2	10.0	6.2	05/24/19 17:43	
Dibenzofuran	ug/L	<3.6	10.0	3.6	05/24/19 17:43	
Diethylphthalate	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Dimethylphthalate	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Hexachloro-1,3-butadiene	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
Hexachlorobenzene	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
Hexachlorocyclopentadiene	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Hexachloroethane	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
Isophorone	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
N-Nitroso-di-n-propylamine	ug/L	<2.6	50.0	2.6	05/24/19 17:43	
N-Nitrosodiphenylamine	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Nitrobenzene	ug/L	<2.4	10.0	2.4	05/24/19 17:43	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

METHOD BLANK: 2318319 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Pentachlorophenol	ug/L	<1.9	50.0	1.9	05/24/19 17:43	
Phenol	ug/L	<1.7	10.0	1.7	05/24/19 17:43	
2,4,6-Tribromophenol (S)	%.	98	29-134		05/24/19 17:43	
2-Fluorophenol (S)	%.	47	10-82		05/24/19 17:43	
Nitrobenzene-d5 (S)	%.	94	15-115		05/24/19 17:43	
Phenol-d5 (S)	%.	37	10-65		05/24/19 17:43	

LABORATORY CONTROL SAMPLE: 2318320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	88.4	88	10-142	
2-Chlorophenol	ug/L	100	60.1	60	18-105	
4-Chloro-3-methylphenol	ug/L	100	77.7	78	18-127	
4-Nitrophenol	ug/L	100	43.8J	44	10-87	
N-Nitroso-di-n-propylamine	ug/L	100	90.4	90	20-120	
Pentachlorophenol	ug/L	100	97.8	98	21-141	
Phenol	ug/L	100	32.3	32	10-62	
2,4,6-Tribromophenol (S)	%.			87	29-134	
2-Fluorophenol (S)	%.			46	10-82	
Nitrobenzene-d5 (S)	%.			90	15-115	
Phenol-d5 (S)	%.			36	10-65	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318321 2318322

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/L	<2.6	100	100	96.1	93.5	96	93	10-134	3	20	
2-Chlorophenol	ug/L	<2.7	100	100	85.1	84.1	85	84	13-95	1	20	
4-Chloro-3-methylphenol	ug/L	<2.9	100	100	110	108	110	108	15-119	2	20	
4-Nitrophenol	ug/L	<2.5	100	100	58.8	57.3	59	57	10-76	3	20	
N-Nitroso-di-n-propylamine	ug/L	<2.6	100	100	95.3	92.3	95	92	12-111	3	20	
Pentachlorophenol	ug/L	<1.9	100	100	119	114	119	114	21-132	4	20	
Phenol	ug/L	<1.7	100	100	41.1	41.0	41	41	10-52	0	20	
2,4,6-Tribromophenol (S)	%.						92	95	29-134			
2-Fluorophenol (S)	%.						59	58	10-82			
Nitrobenzene-d5 (S)	%.						88	91	15-115			
Phenol-d5 (S)	%.						41	41	10-65			

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 216 College / 19-146
Pace Project No.: 50225468

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.

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(317)228-3100

METHOD CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225468

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Water	SW-846 6010B	SW-846 3010A
6020 MET ICPMS	Water	SW-846 6020	SW-846 3010A
7470 Mercury	Water	SW-846 7470A	SW-846 7470A
8270 100mL Combo RV	Water	SW-846 8270C	SW-846 3510C
8270 SVOC Combo Water	Water	SW-846 8270C	SW-846 3510C

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225468001	**SP-1**	EPA 3010	501305	EPA 6010	501704
50225468002	**SP-3**	EPA 3010	501305	EPA 6010	501704
50225468003	**SP-4**	EPA 3010	501305	EPA 6010	501704
50225468004	**SP-5**	EPA 3010	501305	EPA 6010	501704
50225468005	**SP-5 DUP**	EPA 3010	501305	EPA 6010	501704
50225468006	**EQ Blank**	EPA 3010	502070	EPA 6010	502565
50225468001	**SP-1**	EPA 200.2	503006	EPA 6020	503481
50225468002	**SP-3**	EPA 200.2	503006	EPA 6020	503481
50225468003	**SP-4**	EPA 200.2	503006	EPA 6020	503481
50225468004	**SP-5**	EPA 200.2	503006	EPA 6020	503481
50225468005	**SP-5 DUP**	EPA 200.2	503006	EPA 6020	503481
50225468006	**EQ Blank**	EPA 200.2	503006	EPA 6020	503481
50225468001	**SP-1**	EPA 7470	501889	EPA 7470	502925
50225468002	**SP-3**	EPA 7470	501889	EPA 7470	502925
50225468003	**SP-4**	EPA 7470	501889	EPA 7470	502925
50225468004	**SP-5**	EPA 7470	501889	EPA 7470	502925
50225468005	**SP-5 DUP**	EPA 7470	501889	EPA 7470	502925
50225468006	**EQ Blank**	EPA 7470	502148	EPA 7470	502319
50225468001	**SP-1**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468002	**SP-3**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468003	**SP-4**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468004	**SP-5**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468005	**SP-5 DUP**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468006	**EQ Blank**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468001	**SP-1**	EPA 3510	502356	EPA 8270	502531
50225468002	**SP-3**	EPA 3510	502356	EPA 8270	502531
50225468003	**SP-4**	EPA 3510	502356	EPA 8270	502531
50225468004	**SP-5**	EPA 3510	502356	EPA 8270	502531
50225468005	**SP-5 DUP**	EPA 3510	502356	EPA 8270	502531
50225468006	**EQ Blank**	EPA 3510	502356	EPA 8270	502531

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50225468

ALL SHADED AREAS are for LAB USE ONLY

Company: BLA Environmental	Billing Information:
Address: 12026 87th St.	
Report To: JTerschler	Email To: JTerschler
Copy To: RManny@BLAConsultants.com	Site Collection Info/Address: 216 S College
Customer Project Name/Number: 19-146	State: IN County/City: Monroe Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [✓] No
Collected By (print): Rod Manny	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Rod Manny	Turnaround Date Required: STD Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [✓] Hold: Filtered metals	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [✓] Yes [ ] No Analysis: 14 Metals

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: U | | 1 | | 1 | | B | | |

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: SVOCs + PAHs 8270 + SIM	14 Metals	14 Metals (Field Filtered *)	Cr VI 7199	Lab Sample # / Comments
** SP-1	GW	G	5.17.19	1145				14	X	X	X	X	001 007
SP-3	"	"	"	1310				5	X	X		X	002
SP-4	"	"	"	1345				5	X	X	X	X	003 008
SP-5	"	"	"	1023				5	X	X	X	X	004 009
SP-5 DUP	"	"	"	1023				4	X	X		X	005
Equipment Blank 5/21/19 RMB									X	X		X	006

Lab Profile/Line:

Lab Sample Receipt Checklist: See Scan

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
* Hold Filtered until Analysis Pending
** MS/MSD

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2397500

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: (Y) N NA
Therm ID#: E
Cooler 1 Temp Upon Receipt: 1.5 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rod Manny/BLA	5/17/19 1801		5/17/19 1801
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Lucas Dayton LMC	5/17/19		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

SAMPLE CONDITION UPON RECEIPT FORM

Pace Analytical

Project #: 50225468

Date/Time and Initials of person examining contents: LWG 1830 5/17/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D (E) F Ice Type: ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☑ Yes ☐ No ☐ N/A

Cooler Temperature: 1.5/1.5 Ice Visible in Sample Containers?: ☐ Yes ☑ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☑ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			+ CWG
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: (HNO3) H2SO4 NaOH NaOH/ZnAc	✓		
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:	✓		+ LWG
Short Hold Time Analysis (<72hr)?: Analysis:		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:		✓		Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested:			Headspace in VOA Vials (>6mm):			
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓	Trip Blank Custody Seals?:		✓	

Comments: Missing SP-3 Cr VI Sample. - LWG 5/17/19 EQ blank not on COC - LWG 5/17/19
This ↑ is correct - ~~not~~ no SP-3 CrVI 5/20/19 KMB
Analyze CrVI groundwater, per Rob Manny 5/21/19 KMB
Analyze equipment blank for all parameters 5/21/19 KMB

Sample Container Count

WO# : 50225468

CLIENT: BCA

COC PAGE 1 of 1
COC ID# 2397500

Project # 50225468

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk Kit R	GNX	Date	Time	Matrix SI/ (Soil/Wate Aqueous	pH <2	pH >9	pH>12
1		6												4				3			WT	✓		
2		2												1				0						
3		2												2				1						
4		|												2				1						
5		|												1				1						
6		|												1				1	5/17	1450	|	|		
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic
BP2O	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

ANALYTICAL REPORT

May 30, 2019

Pace Analytical - Indianapolis, IN

Sample Delivery Group:	L1101712
Samples Received:	05/23/2019
Project Number:	50225468
Description:	216 College / 19-146

Report To: Regina Bedel
7726 Moller Rd.
Indianapolis, IN 46268

Entire Report Reviewed By:

Nancy McLain
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Tc: Table of Contents 2

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Sr: Sample Results 5

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Gl: Glossary of Terms 11

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Sc: Sample Chain of Custody 13

SP-1 L1101712-01 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 11:45	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 18:29	05/29/19 18:29	GB	Mt. Juliet, TN

SP-4 L1101712-02 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 13:45	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 21:04	05/29/19 21:04	GB	Mt. Juliet, TN

SP-5 L1101712-03 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 10:23	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:08	05/29/19 19:08	GB	Mt. Juliet, TN

SP-5 DUP L1101712-04 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 10:23	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:23	05/29/19 19:23	GB	Mt. Juliet, TN

EQ BLANK L1101712-05 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 14:50	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:32	05/29/19 19:32	GB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy McLain
Project Manager

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1101712-01	SP-1	7199
L1101712-02	SP-4	7199
L1101712-03	SP-5	7199
L1101712-04	SP-5 DUP	7199
L1101712-05	EQ BLANK	7199

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.224	J6	0.0200	0.0600	1	05/29/2019 18:29	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.0539	J P1	0.0200	0.0600	1	05/29/2019 21:04	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.124		0.0200	0.0600	1	05/29/2019 19:08	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.0999		0.0200	0.0600	1	05/29/2019 19:23	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.135		0.0200	0.0600	1	05/29/2019 19:32	WG1287501

Method Blank (MB)

(MB) R3416028-1 05/29/19 17:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexavalent Chromium-Low Level	U		0.0200	0.0600

L1101712-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1101712-02 05/29/19 21:04 • (DUP) R3416028-7 05/29/19 21:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium-Low Level	0.0539	0.0266	1	67.8	J P1	20

Laboratory Control Sample (LCS)

(LCS) R3416028-2 05/29/19 18:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium-Low Level	0.500	0.499	99.8	90.0-110	

L1101712-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1101712-01 05/29/19 18:29 • (MS) R3416028-3 05/29/19 18:38 • (MSD) R3416028-4 05/29/19 18:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium-Low Level	1.00	0.224	1.04	1.03	81.1	80.9	1	90.0-110	J6	J6	0.222	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

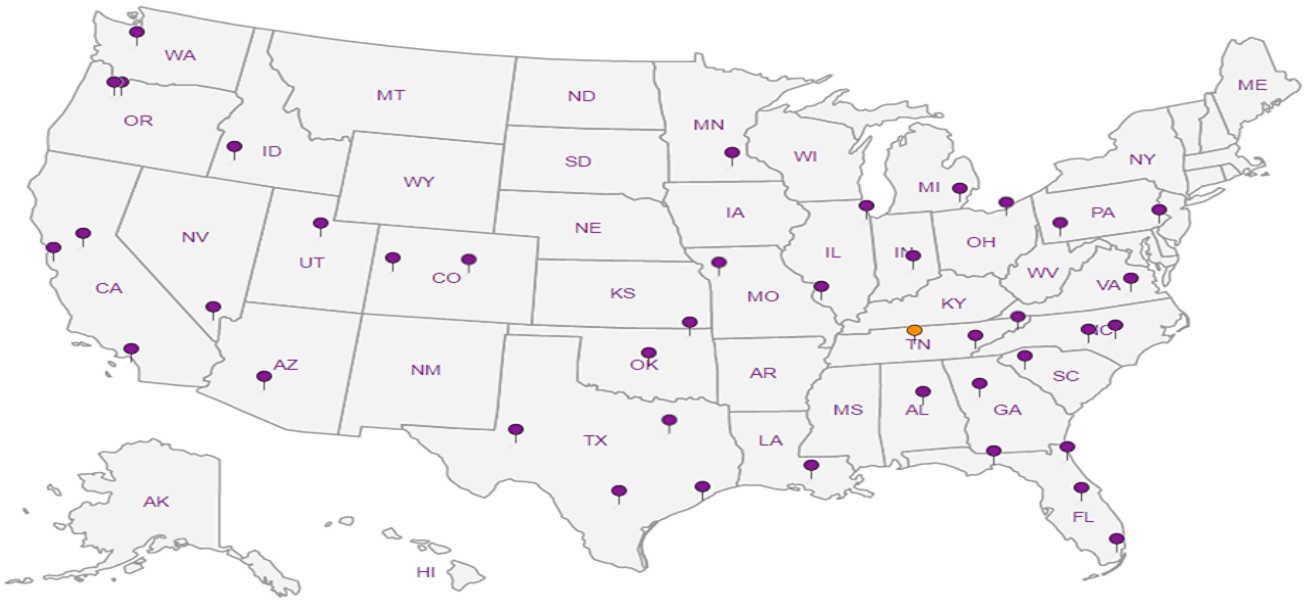
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody

Pace Analytical®
www.pacelabs.com

A116

Workorder: 50225468 **Workorder Name:** 216 College / 19-146 **Results Requested By:** 6/4/2019

Report / Invoice To	Subcontract To
Regina Bedel Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100 Email: regina.bedel@pacelabs.com	Pace National 12065 Lebanon Rd Mt Juliet, TN 37122 P.O. 50225468

State of Sample Origin: IN

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	7199 CR6 LLFFP + MS/MSD	7199 CR6 LLFFP	LAB USE ONLY
1	SP-1	5/17/2019 11:45	50225468001	Water	3	X		-01
2	SP-4	5/17/2019 13:45	50225468003	Water	1		X	-02
3	SP-5	5/17/2019 10:23	50225468004	Water	1		X	-03
4	SP-5 DUP	5/17/2019 10:23	50225468005	Water	1		X	-04
5	EQ Blank	5/17/2019 14:50	50225468006	Water	1		X	-05

L1101712

Transfers	Released By	Date/Time	Received By	Date/Time
1		5-22-19 1649		5-23-19 8:45
2				
3				

Comments: OK

Cooler Temperature on Receipt 3.4±0 °C 3.4 A39F | Custody Seal Y or N 4893 0206 3376 | Received on Ice (Y) or N | Samples Intact (Y) or N

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEEEN	SDG#:	L1101712	
Cooler Received/Opened On: 5/23/19	Temperature:	3.4	
Received By: Lexxi Romero			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50225466

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ICP

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 04, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 College / 19-146
Pace Project No.: 50225466

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants
Mr. Dan Rust, BCA Environmental Consultants, LLC

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CERTIFICATIONS

Project: 216 College / 19-146
Pace Project No.: 50225466

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50225466001	**SP-1 (3-5)**	Solid	05/16/19 12:40	05/17/19 18:01
50225466002	**SP-1 (5-7)**	Solid	05/16/19 12:45	05/17/19 18:01
50225466003	**SP-2 (0-2)**	Solid	05/16/19 10:00	05/17/19 18:01
50225466004	**SP-2 (2-4)**	Solid	05/16/19 10:05	05/17/19 18:01
50225466005	**SP-3 (0-2)**	Solid	05/16/19 10:25	05/17/19 18:01
50225466006	**SP-3 (2-4)**	Solid	05/16/19 10:30	05/17/19 18:01
50225466007	**SP-4 (0-2)**	Solid	05/16/19 12:15	05/17/19 18:01
50225466008	**SP-4 (2-4)**	Solid	05/16/19 12:20	05/17/19 18:01
50225466009	**SP-4 (6-8)**	Solid	05/16/19 12:00	05/17/19 18:01
50225466010	**SP-4 (8-9)**	Solid	05/16/19 12:05	05/17/19 18:01
50225466011	**SP-4 (9-10.5)**	Solid	05/16/19 12:10	05/17/19 18:01
50225466012	**SP-5 (0-2)**	Solid	05/16/19 11:40	05/17/19 18:01
50225466013	**SP-5 (0-2) DUP**	Solid	05/16/19 11:40	05/17/19 18:01
50225466014	**SP-5 (2-4)**	Solid	05/16/19 11:45	05/17/19 18:01
50225466015	**SP-5 (9-11)**	Solid	05/16/19 11:30	05/17/19 18:01
50225466016	**SP-5 (11-13)**	Solid	05/16/19 11:35	05/17/19 18:01
50225466017	**SP-5 (11-13) DUP**	Solid	05/16/19 11:35	05/17/19 18:01
50225466018	**SP-5 (6-8)**	Solid	05/16/19 11:37	05/17/19 18:01

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50225466001	**SP-1 (3-5)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466002	**SP-1 (5-7)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466003	**SP-2 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466004	**SP-2 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466005	**SP-3 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466006	**SP-3 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466007	**SP-4 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466008	**SP-4 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466009	**SP-4 (6-8)**	EPA 8270 by SIM	JCM	20	PASI-I

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466010	**SP-4 (8-9)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466011	**SP-4 (9-10.5)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466012	**SP-5 (0-2)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466013	**SP-5 (0-2) DUP**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466014	**SP-5 (2-4)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466015	**SP-5 (9-11)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466016	**SP-5 (11-13)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466017	**SP-5 (11-13) DUP**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I
50225466018	**SP-5 (6-8)**	EPA 6010	KJE	13	PASI-I
		EPA 7471	LBT	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8270	JCM	47	PASI-I
		SM 2540G	RM1	1	PASI-I

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466001	**SP-1 (3-5)**					
EPA 6010	Arsenic	12.0	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Barium	72.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Beryllium	0.91	mg/kg	0.53	05/28/19 16:50	
EPA 6010	Cadmium	0.18J	mg/kg	0.53	05/28/19 16:50	
EPA 6010	Chromium	13.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Copper	17.8	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Lead	16.3	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Nickel	17.0	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Selenium	0.64J	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Thallium	1.6	mg/kg	1.1	05/28/19 16:50	
EPA 6010	Zinc	37.0	mg/kg	1.1	05/28/19 16:50	
EPA 7471	Mercury	0.11J	mg/kg	0.22	05/30/19 20:16	
EPA 8270 by SIM	Acenaphthene	301	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Acenaphthylene	86.8	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Anthracene	761	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(a)anthracene	1980	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(a)pyrene	1400	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	1550	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(g,h,i)perylene	810	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	1240	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Chrysene	2270	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Dibenz(a,h)anthracene	428	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Fluoranthene	4460	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Fluorene	270	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	814	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	1-Methylnaphthalene	249	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	2-Methylnaphthalene	282	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Naphthalene	234	ug/kg	29.8	06/02/19 15:59	ED
EPA 8270 by SIM	Phenanthrene	3250	ug/kg	29.8	06/02/19 15:59	
EPA 8270 by SIM	Pyrene	4200	ug/kg	29.8	06/02/19 15:59	
EPA 8270	Dibenzofuran	494	ug/kg	394	06/02/19 15:20	
SM 2540G	Percent Moisture	16.2	%	0.10	05/28/19 11:52	
50225466002	**SP-1 (5-7)**					
EPA 6010	Arsenic	8.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Barium	49.1	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Beryllium	1.4	mg/kg	0.57	05/28/19 16:53	
EPA 6010	Cadmium	0.13J	mg/kg	0.57	05/28/19 16:53	
EPA 6010	Chromium	8.7	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Copper	37.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Lead	43.9	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Nickel	19.1	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Selenium	1.2	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Thallium	0.95J	mg/kg	1.1	05/28/19 16:53	
EPA 6010	Zinc	49.9	mg/kg	1.1	05/28/19 16:53	
EPA 7471	Mercury	0.13J	mg/kg	0.24	05/30/19 20:18	
EPA 8270 by SIM	Acenaphthene	149	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Acenaphthylene	33.3	ug/kg	30.9	06/02/19 16:15	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466002	**SP-1 (5-7)**					
EPA 8270 by SIM	Anthracene	300	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(a)anthracene	268	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(a)pyrene	106	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	108	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	62.6	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	82.8	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Chrysene	322	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Dibenz(a,h)anthracene	17.9J	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Fluoranthene	486	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Fluorene	207	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	34.1	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	1-Methylnaphthalene	562	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	2-Methylnaphthalene	565	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Naphthalene	315	ug/kg	30.9	06/02/19 16:15	ED
EPA 8270 by SIM	Phenanthrene	1230	ug/kg	30.9	06/02/19 16:15	
EPA 8270 by SIM	Pyrene	515	ug/kg	30.9	06/02/19 16:15	
EPA 8270	Dibenzofuran	238J	ug/kg	408	06/02/19 15:36	
SM 2540G	Percent Moisture	19.5	%	0.10	05/28/19 11:52	
50225466003	**SP-2 (0-2)**					
EPA 6010	Arsenic	0.97J	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Barium	42.2	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Cadmium	0.37J	mg/kg	0.50	05/28/19 16:55	
EPA 6010	Chromium	7.1	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Copper	2.2	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Lead	2.1	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Nickel	8.6	mg/kg	1.0	05/28/19 16:55	
EPA 6010	Silver	0.68	mg/kg	0.50	05/28/19 16:55	
EPA 6010	Zinc	22.0	mg/kg	1.0	05/28/19 16:55	
EPA 8270 by SIM	Pyrene	2.9J	ug/kg	5.1	06/04/19 13:55	
SM 2540G	Percent Moisture	3.4	%	0.10	05/28/19 11:52	
50225466004	**SP-2 (2-4)**					
EPA 6010	Arsenic	14.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Barium	75.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Beryllium	0.46J	mg/kg	0.51	05/28/19 16:57	
EPA 6010	Cadmium	0.26J	mg/kg	0.51	05/28/19 16:57	
EPA 6010	Chromium	15.8	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Copper	9.1	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Lead	14.7	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Nickel	11.2	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Thallium	0.86J	mg/kg	1.0	05/28/19 16:57	
EPA 6010	Zinc	33.1	mg/kg	1.0	05/28/19 16:57	
EPA 8270 by SIM	Acenaphthene	61.2	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Acenaphthylene	134	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Anthracene	155	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(a)anthracene	294	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(a)pyrene	349	ug/kg	27.0	06/02/19 16:48	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466004	**SP-2 (2-4)**					
EPA 8270 by SIM	Benzo(b)fluoranthene	255	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(g,h,i)perylene	243	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Benzo(k)fluoranthene	215	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Chrysene	334	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Dibenz(a,h)anthracene	106	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Fluoranthene	385	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	221	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	1-Methylnaphthalene	22.6J	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	2-Methylnaphthalene	23.6J	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Naphthalene	36.3	ug/kg	27.0	06/02/19 16:48	ED
EPA 8270 by SIM	Phenanthrene	97.4	ug/kg	27.0	06/02/19 16:48	
EPA 8270 by SIM	Pyrene	983	ug/kg	27.0	06/02/19 16:48	
SM 2540G	Percent Moisture	8.5	%	0.10	05/28/19 11:52	
50225466005	**SP-3 (0-2)**					
EPA 6010	Arsenic	6.3	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Barium	301	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Beryllium	0.51J	mg/kg	0.53	05/28/19 16:59	
EPA 6010	Cadmium	0.34J	mg/kg	0.53	05/28/19 16:59	
EPA 6010	Chromium	13.3	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Copper	17.6	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Lead	96.5	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Nickel	13.2	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Thallium	0.83J	mg/kg	1.1	05/28/19 16:59	
EPA 6010	Zinc	97.4	mg/kg	1.1	05/28/19 16:59	
EPA 7471	Mercury	0.59	mg/kg	0.22	05/30/19 20:29	
EPA 8270 by SIM	Acenaphthylene	23.9J	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Anthracene	59.3	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(a)anthracene	380	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(a)pyrene	400	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	441	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	406	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	346	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Chrysene	488	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Dibenz(a,h)anthracene	107	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Fluoranthene	724	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	337	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Phenanthrene	196	ug/kg	59.1	06/02/19 17:04	
EPA 8270 by SIM	Pyrene	786	ug/kg	59.1	06/02/19 17:04	M6
SM 2540G	Percent Moisture	16.2	%	0.10	05/28/19 11:53	
50225466006	**SP-3 (2-4)**					
EPA 6010	Arsenic	13.6	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Barium	72.8	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Beryllium	0.77	mg/kg	0.59	05/28/19 17:10	
EPA 6010	Cadmium	0.13J	mg/kg	0.59	05/28/19 17:10	
EPA 6010	Chromium	19.2	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Copper	22.1	mg/kg	1.2	05/28/19 17:10	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466006	**SP-3 (2-4)**					
EPA 6010	Lead	20.0	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Nickel	15.8	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Thallium	1.1J	mg/kg	1.2	05/28/19 17:10	
EPA 6010	Zinc	49.8	mg/kg	1.2	05/28/19 17:10	
EPA 8270 by SIM	Naphthalene	4.1J	ug/kg	6.4	06/02/19 17:53	
EPA 8270 by SIM	Phenanthrene	2.7J	ug/kg	6.4	06/02/19 17:53	
SM 2540G	Percent Moisture	22.2	%	0.10	05/28/19 12:39	
50225466007	**SP-4 (0-2)**					
EPA 6010	Arsenic	7.7	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Barium	187	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Beryllium	0.60	mg/kg	0.55	05/28/19 17:17	
EPA 6010	Cadmium	0.63	mg/kg	0.55	05/28/19 17:17	
EPA 6010	Chromium	17.3	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Copper	16.3	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Lead	44.7	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Nickel	12.8	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Selenium	0.50J	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Thallium	0.72J	mg/kg	1.1	05/28/19 17:17	
EPA 6010	Zinc	111	mg/kg	1.1	05/28/19 17:17	
EPA 7471	Mercury	0.15J	mg/kg	0.25	05/30/19 20:37	
SM 2540G	Percent Moisture	18.5	%	0.10	05/28/19 12:39	
50225466008	**SP-4 (2-4)**					
EPA 6010	Arsenic	18.5	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Barium	98.4	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Beryllium	0.91	mg/kg	0.59	05/28/19 17:19	
EPA 6010	Cadmium	0.18J	mg/kg	0.59	05/28/19 17:19	
EPA 6010	Chromium	22.5	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Copper	26.4	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Lead	15.1	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Nickel	15.9	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Thallium	0.84J	mg/kg	1.2	05/28/19 17:19	
EPA 6010	Zinc	57.4	mg/kg	1.2	05/28/19 17:19	
SM 2540G	Percent Moisture	21.9	%	0.10	05/28/19 12:40	
50225466009	**SP-4 (6-8)**					
EPA 8270 by SIM	Acenaphthene	4.4J	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Anthracene	6.6	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Benzo(a)anthracene	8.3	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Chrysene	14.6	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Fluoranthene	11.5	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Fluorene	7.4	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	1-Methylnaphthalene	672	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	2-Methylnaphthalene	1390	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Naphthalene	221	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Phenanthrene	22.2	ug/kg	6.2	06/02/19 18:10	
EPA 8270 by SIM	Pyrene	14.8	ug/kg	6.2	06/02/19 18:10	
SM 2540G	Percent Moisture	20.7	%	0.10	05/28/19 12:40	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466010	**SP-4 (8-9)**					
EPA 8270 by SIM	Benzo(a)anthracene	2.7J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Chrysene	4.3J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Fluoranthene	4.1J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Fluorene	2.4J	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	1-Methylnaphthalene	195	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	2-Methylnaphthalene	398	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Naphthalene	121	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Phenanthrene	7.4	ug/kg	6.2	06/02/19 18:26	
EPA 8270 by SIM	Pyrene	5.0J	ug/kg	6.2	06/02/19 18:26	
SM 2540G	Percent Moisture	19.3	%	0.10	05/28/19 12:40	
50225466011	**SP-4 (9-10.5)**					
EPA 8270 by SIM	Anthracene	3.4J	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Benzo(a)anthracene	6.5	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Chrysene	11.9	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Fluoranthene	9.6	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Fluorene	5.8J	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	1-Methylnaphthalene	314	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	2-Methylnaphthalene	592	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Naphthalene	200	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Phenanthrene	17.8	ug/kg	6.2	06/02/19 18:43	
EPA 8270 by SIM	Pyrene	11.9	ug/kg	6.2	06/02/19 18:43	
SM 2540G	Percent Moisture	20.3	%	0.10	05/28/19 12:40	
50225466012	**SP-5 (0-2)**					
EPA 6010	Antimony	0.23J	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Arsenic	6.1	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Barium	147	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Beryllium	0.54	mg/kg	0.48	05/28/19 17:21	
EPA 6010	Cadmium	0.20J	mg/kg	0.48	05/28/19 17:21	
EPA 6010	Chromium	14.9	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Copper	12.1	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Lead	107	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Nickel	9.3	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Thallium	0.59J	mg/kg	0.95	05/28/19 17:21	
EPA 6010	Zinc	57.5	mg/kg	0.95	05/28/19 17:21	
EPA 7471	Mercury	0.85	mg/kg	0.21	05/30/19 20:42	
SM 2540G	Percent Moisture	12.3	%	0.10	05/28/19 12:41	
50225466013	**SP-5 (0-2) DUP**					
EPA 6010	Arsenic	7.5	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Barium	136	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Beryllium	0.66	mg/kg	0.49	05/28/19 17:23	
EPA 6010	Cadmium	0.14J	mg/kg	0.49	05/28/19 17:23	
EPA 6010	Chromium	13.9	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Copper	116	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Lead	95.3	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Nickel	10.5	mg/kg	0.98	05/28/19 17:23	
EPA 6010	Thallium	0.60J	mg/kg	0.98	05/28/19 17:23	

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7726 Moller Road
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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466013	**SP-5 (0-2) DUP**					
EPA 6010	Zinc	74.1	mg/kg	0.98	05/28/19 17:23	
EPA 7471	Mercury	1.0	mg/kg	0.21	05/30/19 20:44	
SM 2540G	Percent Moisture	12.1	%	0.10	05/28/19 12:41	
50225466014	**SP-5 (2-4)**					
EPA 6010	Arsenic	7.7	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Barium	91.6	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Beryllium	0.67	mg/kg	0.57	05/28/19 17:25	
EPA 6010	Cadmium	0.099J	mg/kg	0.57	05/28/19 17:25	
EPA 6010	Chromium	15.1	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Copper	11.8	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Lead	17.8	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Nickel	11.4	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Thallium	0.54J	mg/kg	1.1	05/28/19 17:25	
EPA 6010	Zinc	49.4	mg/kg	1.1	05/28/19 17:25	
EPA 7471	Mercury	0.42	mg/kg	0.24	05/30/19 20:46	
SM 2540G	Percent Moisture	17.8	%	0.10	05/28/19 12:41	
50225466015	**SP-5 (9-11)**					
EPA 8270 by SIM	Acenaphthene	6.3J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Anthracene	5.9J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(a)anthracene	9.6	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(a)pyrene	2.9J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	4.0J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Benzo(k)fluoranthene	3.2J	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Chrysene	13.9	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Fluoranthene	17.2	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Fluorene	11.2	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	1-Methylnaphthalene	395	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	2-Methylnaphthalene	469	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Phenanthrene	29.1	ug/kg	6.6	06/02/19 18:59	
EPA 8270 by SIM	Pyrene	20.7	ug/kg	6.6	06/02/19 18:59	
SM 2540G	Percent Moisture	24.8	%	0.10	05/28/19 12:41	
50225466016	**SP-5 (11-13)**					
EPA 8270 by SIM	Acenaphthene	37.6	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Acenaphthylene	11.0	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Anthracene	41.0	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(a)anthracene	22.2	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(a)pyrene	6.3J	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(b)fluoranthene	8.1	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Benzo(k)fluoranthene	6.6J	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Chrysene	22.6	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Fluoranthene	134	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Fluorene	89.4	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	1-Methylnaphthalene	27.4	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	2-Methylnaphthalene	38.9	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Naphthalene	144	ug/kg	7.3	06/02/19 19:16	
EPA 8270 by SIM	Phenanthrene	179	ug/kg	7.3	06/02/19 19:16	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225466016	**SP-5 (11-13)**					
EPA 8270 by SIM	Pyrene	110	ug/kg	7.3	06/02/19 19:16	
SM 2540G	Percent Moisture	32.6	%	0.10	05/28/19 12:42	
50225466017	**SP-5 (11-13) DUP**					
EPA 8270 by SIM	1-Methylnaphthalene	19.0	ug/kg	6.5	06/02/19 19:32	
EPA 8270 by SIM	2-Methylnaphthalene	21.3	ug/kg	6.5	06/02/19 19:32	
EPA 8270 by SIM	Naphthalene	14.8	ug/kg	6.5	06/02/19 19:32	
SM 2540G	Percent Moisture	23.7	%	0.10	05/28/19 12:42	
50225466018	**SP-5 (6-8)**					
EPA 6010	Arsenic	6.6	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Barium	118	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Beryllium	1.1	mg/kg	0.56	05/28/19 17:28	
EPA 6010	Cadmium	0.16J	mg/kg	0.56	05/28/19 17:28	
EPA 6010	Chromium	32.3	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Copper	13.5	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Lead	14.0	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Nickel	15.0	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Thallium	0.50J	mg/kg	1.1	05/28/19 17:28	
EPA 6010	Zinc	57.3	mg/kg	1.1	05/28/19 17:28	
SM 2540G	Percent Moisture	19.0	%	0.10	05/28/19 12:42	

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.124 g Final Volume/Weight: 50 mL								
Antimony	**<0.25**	mg/kg	1.1	0.25	1	05/28/19 07:10	05/28/19 16:50	7440-36-0	
Arsenic	**12.0**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 16:50	7440-38-2	
Barium	**72.6**	mg/kg	1.1	0.032	1	05/28/19 07:10	05/28/19 16:50	7440-39-3	
Beryllium	**0.91**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:50	7440-41-7	
Cadmium	**0.18J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:50	7440-43-9	
Chromium	**13.6**	mg/kg	1.1	0.31	1	05/28/19 07:10	05/28/19 16:50	7440-47-3	
Copper	**17.8**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:50	7440-50-8	
Lead	**16.3**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:50	7439-92-1	
Nickel	**17.0**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:50	7440-02-0	
Selenium	**0.64J**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 16:50	7782-49-2	
Silver	**<0.30**	mg/kg	0.53	0.30	1	05/28/19 07:10	05/28/19 16:50	7440-22-4	
Thallium	**1.6**	mg/kg	1.1	0.25	1	05/28/19 07:10	05/28/19 16:50	7440-28-0	
Zinc	**37.0**	mg/kg	1.1	0.37	1	05/28/19 07:10	05/28/19 16:50	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.319 g Final Volume/Weight: 50 mL								
Mercury	**0.11J**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:16	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Acenaphthene	**301**	ug/kg	29.8	7.5	5	05/29/19 09:25	06/02/19 15:59	83-32-9	
Acenaphthylene	**86.8**	ug/kg	29.8	8.9	5	05/29/19 09:25	06/02/19 15:59	208-96-8	
Anthracene	**761**	ug/kg	29.8	8.5	5	05/29/19 09:25	06/02/19 15:59	120-12-7	
Benzo(a)anthracene	**1980**	ug/kg	29.8	8.9	5	05/29/19 09:25	06/02/19 15:59	56-55-3	
Benzo(a)pyrene	**1400**	ug/kg	29.8	10.7	5	05/29/19 09:25	06/02/19 15:59	50-32-8	
Benzo(b)fluoranthene	**1550**	ug/kg	29.8	12.0	5	05/29/19 09:25	06/02/19 15:59	205-99-2	
Benzo(g,h,i)perylene	**810**	ug/kg	29.8	12.8	5	05/29/19 09:25	06/02/19 15:59	191-24-2	
Benzo(k)fluoranthene	**1240**	ug/kg	29.8	11.4	5	05/29/19 09:25	06/02/19 15:59	207-08-9	
Chrysene	**2270**	ug/kg	29.8	10.2	5	05/29/19 09:25	06/02/19 15:59	218-01-9	
Dibenz(a,h)anthracene	**428**	ug/kg	29.8	12.4	5	05/29/19 09:25	06/02/19 15:59	53-70-3	
Fluoranthene	**4460**	ug/kg	29.8	15.5	5	05/29/19 09:25	06/02/19 15:59	206-44-0	
Fluorene	**270**	ug/kg	29.8	7.5	5	05/29/19 09:25	06/02/19 15:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**814**	ug/kg	29.8	11.5	5	05/29/19 09:25	06/02/19 15:59	193-39-5	
1-Methylnaphthalene	**249**	ug/kg	29.8	6.1	5	05/29/19 09:25	06/02/19 15:59	90-12-0	
2-Methylnaphthalene	**282**	ug/kg	29.8	6.3	5	05/29/19 09:25	06/02/19 15:59	91-57-6	
Naphthalene	**234**	ug/kg	29.8	5.9	5	05/29/19 09:25	06/02/19 15:59	91-20-3	ED
Phenanthrene	**3250**	ug/kg	29.8	11.3	5	05/29/19 09:25	06/02/19 15:59	85-01-8	
Pyrene	**4200**	ug/kg	29.8	11.9	5	05/29/19 09:25	06/02/19 15:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	36	%.	23-107		5	05/29/19 09:25	06/02/19 15:59	321-60-8	
p-Terphenyl-d14 (S)	49	%.	16-117		5	05/29/19 09:25	06/02/19 15:59	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	100-51-6	
4-Bromophenylphenyl ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	101-55-3	
Butylbenzylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	85-68-7	
4-Chloro-3-methylphenol	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	59-50-7	
4-Chloroaniline	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20	106-47-8	
bis(2-Chloroethoxy)methane	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	111-91-1	
bis(2-Chloroethyl) ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	111-44-4	
bis(2chloro1methylethyl) ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	108-60-1	
2-Chloronaphthalene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	91-58-7	
2-Chlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-57-8	
4-Chlorophenylphenyl ether	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	7005-72-3	
Dibenzofuran	**494**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	132-64-9	
3,3'-Dichlorobenzidine	**<394**	ug/kg	788	394	1	05/29/19 09:29	06/02/19 15:20	91-94-1	
2,4-Dichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	120-83-2	
Diethylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	84-66-2	
2,4-Dimethylphenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	105-67-9	
Dimethylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	131-11-3	
Di-n-butylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	84-74-2	
4,6-Dinitro-2-methylphenol	**<394**	ug/kg	788	394	1	05/29/19 09:29	06/02/19 15:20	534-52-1	
2,4-Dinitrophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	51-28-5	
2,4-Dinitrotoluene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	121-14-2	
2,6-Dinitrotoluene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	606-20-2	
Di-n-octylphthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	117-84-0	
bis(2-Ethylhexyl)phthalate	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	117-81-7	
Hexachloro-1,3-butadiene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	87-68-3	
Hexachlorobenzene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	118-74-1	
Hexachlorocyclopentadiene	**<394**	ug/kg	394	394	1	05/29/19 09:29	06/02/19 15:20	77-47-4	
Hexachloroethane	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	67-72-1	
Isophorone	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	78-59-1	
2-Methylphenol(o-Cresol)	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<197**	ug/kg	788	197	1	05/29/19 09:29	06/02/19 15:20		
2-Nitroaniline	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-74-4	
3-Nitroaniline	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	99-09-2	
4-Nitroaniline	**<198**	ug/kg	394	198	1	05/29/19 09:29	06/02/19 15:20	100-01-6	
Nitrobenzene	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	98-95-3	
2-Nitrophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-75-5	
4-Nitrophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	100-02-7	
N-Nitroso-di-n-propylamine	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	621-64-7	
N-Nitrosodiphenylamine	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	86-30-6	
Pentachlorophenol	**<955**	ug/kg	1910	955	1	05/29/19 09:29	06/02/19 15:20	87-86-5	
Phenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	108-95-2	
2,4,5-Trichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	95-95-4	
2,4,6-Trichlorophenol	**<197**	ug/kg	394	197	1	05/29/19 09:29	06/02/19 15:20	88-06-2	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (3-5) **Lab ID: 50225466001** Collected: 05/16/19 12:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	90	%.	18-98		1	05/29/19 09:29	06/02/19 15:20	4165-60-0	
Phenol-d5 (S)	85	%.	18-108		1	05/29/19 09:29	06/02/19 15:20	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 15:20	367-12-4	
2,4,6-Tribromophenol (S)	57	%.	10-114		1	05/29/19 09:29	06/02/19 15:20	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**16.2**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.086 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 16:53	7440-36-0	
Arsenic	**8.2**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:53	7440-38-2	
Barium	**49.1**	mg/kg	1.1	0.034	1	05/28/19 07:10	05/28/19 16:53	7440-39-3	
Beryllium	**1.4**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 16:53	7440-41-7	
Cadmium	**0.13J**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 16:53	7440-43-9	
Chromium	**8.7**	mg/kg	1.1	0.33	1	05/28/19 07:10	05/28/19 16:53	7440-47-3	
Copper	**37.2**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 16:53	7440-50-8	
Lead	**43.9**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 16:53	7439-92-1	
Nickel	**19.1**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 16:53	7440-02-0	
Selenium	**1.2**	mg/kg	1.1	0.42	1	05/28/19 07:10	05/28/19 16:53	7782-49-2	
Silver	**<0.32**	mg/kg	0.57	0.32	1	05/28/19 07:10	05/28/19 16:53	7440-22-4	
Thallium	**0.95J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 16:53	7440-28-0	
Zinc	**49.9**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 16:53	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.312 g Final Volume/Weight: 50 mL								
Mercury	**0.13J**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:18	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Acenaphthene	**149**	ug/kg	30.9	7.8	5	05/29/19 09:25	06/02/19 16:15	83-32-9	
Acenaphthylene	**33.3**	ug/kg	30.9	9.2	5	05/29/19 09:25	06/02/19 16:15	208-96-8	
Anthracene	**300**	ug/kg	30.9	8.8	5	05/29/19 09:25	06/02/19 16:15	120-12-7	
Benzo(a)anthracene	**268**	ug/kg	30.9	9.2	5	05/29/19 09:25	06/02/19 16:15	56-55-3	
Benzo(a)pyrene	**106**	ug/kg	30.9	11.1	5	05/29/19 09:25	06/02/19 16:15	50-32-8	
Benzo(b)fluoranthene	**108**	ug/kg	30.9	12.5	5	05/29/19 09:25	06/02/19 16:15	205-99-2	
Benzo(g,h,i)perylene	**62.6**	ug/kg	30.9	13.3	5	05/29/19 09:25	06/02/19 16:15	191-24-2	
Benzo(k)fluoranthene	**82.8**	ug/kg	30.9	11.8	5	05/29/19 09:25	06/02/19 16:15	207-08-9	
Chrysene	**322**	ug/kg	30.9	10.6	5	05/29/19 09:25	06/02/19 16:15	218-01-9	
Dibenz(a,h)anthracene	**17.9J**	ug/kg	30.9	12.9	5	05/29/19 09:25	06/02/19 16:15	53-70-3	
Fluoranthene	**486**	ug/kg	30.9	16.1	5	05/29/19 09:25	06/02/19 16:15	206-44-0	
Fluorene	**207**	ug/kg	30.9	7.8	5	05/29/19 09:25	06/02/19 16:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**34.1**	ug/kg	30.9	12.0	5	05/29/19 09:25	06/02/19 16:15	193-39-5	
1-Methylnaphthalene	**562**	ug/kg	30.9	6.3	5	05/29/19 09:25	06/02/19 16:15	90-12-0	
2-Methylnaphthalene	**565**	ug/kg	30.9	6.5	5	05/29/19 09:25	06/02/19 16:15	91-57-6	
Naphthalene	**315**	ug/kg	30.9	6.2	5	05/29/19 09:25	06/02/19 16:15	91-20-3	ED
Phenanthrene	**1230**	ug/kg	30.9	11.7	5	05/29/19 09:25	06/02/19 16:15	85-01-8	
Pyrene	**515**	ug/kg	30.9	12.4	5	05/29/19 09:25	06/02/19 16:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%.	23-107		5	05/29/19 09:25	06/02/19 16:15	321-60-8	
p-Terphenyl-d14 (S)	60	%.	16-117		5	05/29/19 09:25	06/02/19 16:15	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	59-50-7	
4-Chloroaniline	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	91-58-7	
2-Chlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	7005-72-3	
Dibenzofuran	**238J**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	132-64-9	
3,3'-Dichlorobenzidine	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 15:36	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	120-83-2	
Diethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	105-67-9	
Dimethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	84-74-2	
4,6-Dinitro-2-methylphenol	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 15:36	534-52-1	
2,4-Dinitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	51-28-5	
2,4-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	118-74-1	
Hexachlorocyclopentadiene	**<408**	ug/kg	408	408	1	05/29/19 09:29	06/02/19 15:36	77-47-4	
Hexachloroethane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	67-72-1	
Isophorone	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 15:36		
2-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-74-4	
3-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	99-09-2	
4-Nitroaniline	**<205**	ug/kg	408	205	1	05/29/19 09:29	06/02/19 15:36	100-01-6	
Nitrobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	98-95-3	
2-Nitrophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-75-5	
4-Nitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	86-30-6	
Pentachlorophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 15:36	87-86-5	
Phenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 15:36	88-06-2	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-1 (5-7) **Lab ID: 50225466002** Collected: 05/16/19 12:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.1 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	52	%.	18-98		1	05/29/19 09:29	06/02/19 15:36	4165-60-0	
Phenol-d5 (S)	57	%.	18-108		1	05/29/19 09:29	06/02/19 15:36	4165-62-2	
2-Fluorophenol (S)	50	%.	16-104		1	05/29/19 09:29	06/02/19 15:36	367-12-4	
2,4,6-Tribromophenol (S)	38	%.	10-114		1	05/29/19 09:29	06/02/19 15:36	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.5**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.031 g Final Volume/Weight: 50 mL								
Antimony	**<0.24**	mg/kg	1.0	0.24	1	05/28/19 07:10	05/28/19 16:55	7440-36-0	
Arsenic	**0.97J**	mg/kg	1.0	0.14	1	05/28/19 07:10	05/28/19 16:55	7440-38-2	
Barium	**42.2**	mg/kg	1.0	0.030	1	05/28/19 07:10	05/28/19 16:55	7440-39-3	
Beryllium	**<0.020**	mg/kg	0.50	0.020	1	05/28/19 07:10	05/28/19 16:55	7440-41-7	
Cadmium	**0.37J**	mg/kg	0.50	0.020	1	05/28/19 07:10	05/28/19 16:55	7440-43-9	
Chromium	**7.1**	mg/kg	1.0	0.29	1	05/28/19 07:10	05/28/19 16:55	7440-47-3	
Copper	**2.2**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:55	7440-50-8	
Lead	**2.1**	mg/kg	1.0	0.15	1	05/28/19 07:10	05/28/19 16:55	7439-92-1	
Nickel	**8.6**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:55	7440-02-0	
Selenium	**<0.37**	mg/kg	1.0	0.37	1	05/28/19 07:10	05/28/19 16:55	7782-49-2	
Silver	**0.68**	mg/kg	0.50	0.28	1	05/28/19 07:10	05/28/19 16:55	7440-22-4	
Thallium	**<0.24**	mg/kg	1.0	0.24	1	05/28/19 07:10	05/28/19 16:55	7440-28-0	
Zinc	**22.0**	mg/kg	1.0	0.35	1	05/28/19 07:10	05/28/19 16:55	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.288 g Final Volume/Weight: 50 mL								
Mercury	**<0.10**	mg/kg	0.22	0.10	1	05/30/19 12:54	05/30/19 20:20	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.3**	ug/kg	5.1	1.3	1	05/29/19 09:25	06/04/19 13:55	83-32-9	
Acenaphthylene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	208-96-8	
Anthracene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	120-12-7	
Benzo(a)anthracene	**<1.5**	ug/kg	5.1	1.5	1	05/29/19 09:25	06/04/19 13:55	56-55-3	
Benzo(a)pyrene	**<1.8**	ug/kg	5.1	1.8	1	05/29/19 09:25	06/04/19 13:55	50-32-8	
Benzo(b)fluoranthene	**<2.1**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	205-99-2	
Benzo(g,h,i)perylene	**<2.2**	ug/kg	5.1	2.2	1	05/29/19 09:25	06/04/19 13:55	191-24-2	
Benzo(k)fluoranthene	**<2.0**	ug/kg	5.1	2.0	1	05/29/19 09:25	06/04/19 13:55	207-08-9	
Chrysene	**<1.8**	ug/kg	5.1	1.8	1	05/29/19 09:25	06/04/19 13:55	218-01-9	
Dibenz(a,h)anthracene	**<2.1**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	53-70-3	
Fluoranthene	**<2.7**	ug/kg	5.1	2.7	1	05/29/19 09:25	06/04/19 13:55	206-44-0	
Fluorene	**<1.3**	ug/kg	5.1	1.3	1	05/29/19 09:25	06/04/19 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.0**	ug/kg	5.1	2.0	1	05/29/19 09:25	06/04/19 13:55	193-39-5	
1-Methylnaphthalene	**<1.1**	ug/kg	5.1	1.1	1	05/29/19 09:25	06/04/19 13:55	90-12-0	
2-Methylnaphthalene	**<1.1**	ug/kg	5.1	1.1	1	05/29/19 09:25	06/04/19 13:55	91-57-6	
Naphthalene	**<1.0**	ug/kg	5.1	1.0	1	05/29/19 09:25	06/04/19 13:55	91-20-3	
Phenanthrene	**<1.9**	ug/kg	5.1	1.9	1	05/29/19 09:25	06/04/19 13:55	85-01-8	
Pyrene	**2.9J**	ug/kg	5.1	2.1	1	05/29/19 09:25	06/04/19 13:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	23-107		1	05/29/19 09:25	06/04/19 13:55	321-60-8	
p-Terphenyl-d14 (S)	96	%.	16-117		1	05/29/19 09:25	06/04/19 13:55	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	100-51-6	
4-Bromophenylphenyl ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	101-55-3	
Butylbenzylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	85-68-7	
4-Chloro-3-methylphenol	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	59-50-7	
4-Chloroaniline	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52	106-47-8	
bis(2-Chloroethoxy)methane	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	111-91-1	
bis(2-Chloroethyl) ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	111-44-4	
bis(2chloro1methylethyl) ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	108-60-1	
2-Chloronaphthalene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	91-58-7	
2-Chlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-57-8	
4-Chlorophenylphenyl ether	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	7005-72-3	
Dibenzofuran	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	132-64-9	
3,3'-Dichlorobenzidine	**<339**	ug/kg	679	339	1	05/29/19 09:29	06/02/19 15:52	91-94-1	
2,4-Dichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	120-83-2	
Diethylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	84-66-2	
2,4-Dimethylphenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	105-67-9	
Dimethylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	131-11-3	
Di-n-butylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	84-74-2	
4,6-Dinitro-2-methylphenol	**<339**	ug/kg	679	339	1	05/29/19 09:29	06/02/19 15:52	534-52-1	
2,4-Dinitrophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	51-28-5	
2,4-Dinitrotoluene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	121-14-2	
2,6-Dinitrotoluene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	606-20-2	
Di-n-octylphthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	117-84-0	
bis(2-Ethylhexyl)phthalate	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	117-81-7	
Hexachloro-1,3-butadiene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	87-68-3	
Hexachlorobenzene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	118-74-1	
Hexachlorocyclopentadiene	**<339**	ug/kg	339	339	1	05/29/19 09:29	06/02/19 15:52	77-47-4	
Hexachloroethane	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	67-72-1	
Isophorone	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	78-59-1	
2-Methylphenol(o-Cresol)	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<170**	ug/kg	679	170	1	05/29/19 09:29	06/02/19 15:52		
2-Nitroaniline	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-74-4	
3-Nitroaniline	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	99-09-2	
4-Nitroaniline	**<171**	ug/kg	339	171	1	05/29/19 09:29	06/02/19 15:52	100-01-6	
Nitrobenzene	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	98-95-3	
2-Nitrophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-75-5	
4-Nitrophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	100-02-7	
N-Nitroso-di-n-propylamine	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	621-64-7	
N-Nitrosodiphenylamine	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	86-30-6	
Pentachlorophenol	**<823**	ug/kg	1650	823	1	05/29/19 09:29	06/02/19 15:52	87-86-5	
Phenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	108-95-2	
2,4,5-Trichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	95-95-4	
2,4,6-Trichlorophenol	**<170**	ug/kg	339	170	1	05/29/19 09:29	06/02/19 15:52	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (0-2) **Lab ID: 50225466003** Collected: 05/16/19 10:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	73	%.	18-98		1	05/29/19 09:29	06/02/19 15:52	4165-60-0	
Phenol-d5 (S)	78	%.	18-108		1	05/29/19 09:29	06/02/19 15:52	4165-62-2	
2-Fluorophenol (S)	69	%.	16-104		1	05/29/19 09:29	06/02/19 15:52	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	10-114		1	05/29/19 09:29	06/02/19 15:52	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**3.4**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.068 g Final Volume/Weight: 50 mL								
Antimony	**<0.25**	mg/kg	1.0	0.25	1	05/28/19 07:10	05/28/19 16:57	7440-36-0	
Arsenic	**14.2**	mg/kg	1.0	0.14	1	05/28/19 07:10	05/28/19 16:57	7440-38-2	
Barium	**75.2**	mg/kg	1.0	0.031	1	05/28/19 07:10	05/28/19 16:57	7440-39-3	
Beryllium	**0.46J**	mg/kg	0.51	0.020	1	05/28/19 07:10	05/28/19 16:57	7440-41-7	
Cadmium	**0.26J**	mg/kg	0.51	0.020	1	05/28/19 07:10	05/28/19 16:57	7440-43-9	
Chromium	**15.8**	mg/kg	1.0	0.30	1	05/28/19 07:10	05/28/19 16:57	7440-47-3	
Copper	**9.1**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:57	7440-50-8	
Lead	**14.7**	mg/kg	1.0	0.15	1	05/28/19 07:10	05/28/19 16:57	7439-92-1	
Nickel	**11.2**	mg/kg	1.0	0.11	1	05/28/19 07:10	05/28/19 16:57	7440-02-0	
Selenium	**<0.38**	mg/kg	1.0	0.38	1	05/28/19 07:10	05/28/19 16:57	7782-49-2	
Silver	**<0.29**	mg/kg	0.51	0.29	1	05/28/19 07:10	05/28/19 16:57	7440-22-4	
Thallium	**0.86J**	mg/kg	1.0	0.25	1	05/28/19 07:10	05/28/19 16:57	7440-28-0	
Zinc	**33.1**	mg/kg	1.0	0.36	1	05/28/19 07:10	05/28/19 16:57	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.293 g Final Volume/Weight: 50 mL								
Mercury	**<0.11**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:22	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**61.2**	ug/kg	27.0	6.8	5	05/29/19 09:25	06/02/19 16:48	83-32-9	
Acenaphthylene	**134**	ug/kg	27.0	8.0	5	05/29/19 09:25	06/02/19 16:48	208-96-8	
Anthracene	**155**	ug/kg	27.0	7.7	5	05/29/19 09:25	06/02/19 16:48	120-12-7	
Benzo(a)anthracene	**294**	ug/kg	27.0	8.1	5	05/29/19 09:25	06/02/19 16:48	56-55-3	
Benzo(a)pyrene	**349**	ug/kg	27.0	9.7	5	05/29/19 09:25	06/02/19 16:48	50-32-8	
Benzo(b)fluoranthene	**255**	ug/kg	27.0	10.9	5	05/29/19 09:25	06/02/19 16:48	205-99-2	
Benzo(g,h,i)perylene	**243**	ug/kg	27.0	11.6	5	05/29/19 09:25	06/02/19 16:48	191-24-2	
Benzo(k)fluoranthene	**215**	ug/kg	27.0	10.3	5	05/29/19 09:25	06/02/19 16:48	207-08-9	
Chrysene	**334**	ug/kg	27.0	9.3	5	05/29/19 09:25	06/02/19 16:48	218-01-9	
Dibenz(a,h)anthracene	**106**	ug/kg	27.0	11.2	5	05/29/19 09:25	06/02/19 16:48	53-70-3	
Fluoranthene	**385**	ug/kg	27.0	14.1	5	05/29/19 09:25	06/02/19 16:48	206-44-0	
Fluorene	**<6.8**	ug/kg	27.0	6.8	5	05/29/19 09:25	06/02/19 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**221**	ug/kg	27.0	10.4	5	05/29/19 09:25	06/02/19 16:48	193-39-5	
1-Methylnaphthalene	**22.6J**	ug/kg	27.0	5.5	5	05/29/19 09:25	06/02/19 16:48	90-12-0	
2-Methylnaphthalene	**23.6J**	ug/kg	27.0	5.7	5	05/29/19 09:25	06/02/19 16:48	91-57-6	
Naphthalene	**36.3**	ug/kg	27.0	5.4	5	05/29/19 09:25	06/02/19 16:48	91-20-3	ED
Phenanthrene	**97.4**	ug/kg	27.0	10.2	5	05/29/19 09:25	06/02/19 16:48	85-01-8	
Pyrene	**983**	ug/kg	27.0	10.8	5	05/29/19 09:25	06/02/19 16:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	23-107		5	05/29/19 09:25	06/02/19 16:48	321-60-8	
p-Terphenyl-d14 (S)	77	%.	16-117		5	05/29/19 09:25	06/02/19 16:48	1718-51-0	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	100-51-6	
4-Bromophenylphenyl ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	101-55-3	
Butylbenzylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	85-68-7	
4-Chloro-3-methylphenol	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	59-50-7	
4-Chloroaniline	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08	106-47-8	
bis(2-Chloroethoxy)methane	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	111-91-1	
bis(2-Chloroethyl) ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	111-44-4	
bis(2chloro1methylethyl) ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	108-60-1	
2-Chloronaphthalene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	91-58-7	
2-Chlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-57-8	
4-Chlorophenylphenyl ether	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	7005-72-3	
Dibenzofuran	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	132-64-9	
3,3'-Dichlorobenzidine	**<357**	ug/kg	714	357	1	05/29/19 09:29	06/02/19 16:08	91-94-1	
2,4-Dichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	120-83-2	
Diethylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	84-66-2	
2,4-Dimethylphenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	105-67-9	
Dimethylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	131-11-3	
Di-n-butylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	84-74-2	
4,6-Dinitro-2-methylphenol	**<357**	ug/kg	714	357	1	05/29/19 09:29	06/02/19 16:08	534-52-1	
2,4-Dinitrophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	51-28-5	
2,4-Dinitrotoluene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	121-14-2	
2,6-Dinitrotoluene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	606-20-2	
Di-n-octylphthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	117-84-0	
bis(2-Ethylhexyl)phthalate	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	117-81-7	
Hexachloro-1,3-butadiene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	87-68-3	
Hexachlorobenzene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	118-74-1	
Hexachlorocyclopentadiene	**<357**	ug/kg	357	357	1	05/29/19 09:29	06/02/19 16:08	77-47-4	
Hexachloroethane	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	67-72-1	
Isophorone	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	78-59-1	
2-Methylphenol(o-Cresol)	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<178**	ug/kg	714	178	1	05/29/19 09:29	06/02/19 16:08		
2-Nitroaniline	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-74-4	
3-Nitroaniline	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	99-09-2	
4-Nitroaniline	**<180**	ug/kg	357	180	1	05/29/19 09:29	06/02/19 16:08	100-01-6	
Nitrobenzene	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	98-95-3	
2-Nitrophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-75-5	
4-Nitrophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	100-02-7	
N-Nitroso-di-n-propylamine	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	621-64-7	
N-Nitrosodiphenylamine	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	86-30-6	
Pentachlorophenol	**<865**	ug/kg	1730	865	1	05/29/19 09:29	06/02/19 16:08	87-86-5	
Phenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	108-95-2	
2,4,5-Trichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	95-95-4	
2,4,6-Trichlorophenol	**<178**	ug/kg	357	178	1	05/29/19 09:29	06/02/19 16:08	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-2 (2-4) **Lab ID: 50225466004** Collected: 05/16/19 10:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	71	%.	18-98		1	05/29/19 09:29	06/02/19 16:08	4165-60-0	
Phenol-d5 (S)	73	%.	18-108		1	05/29/19 09:29	06/02/19 16:08	4165-62-2	
2-Fluorophenol (S)	49	%.	16-104		1	05/29/19 09:29	06/02/19 16:08	367-12-4	
2,4,6-Tribromophenol (S)	25	%.	10-114		1	05/29/19 09:29	06/02/19 16:08	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**8.5**	%	0.10	0.10	1		05/28/19 11:52		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.115 g Final Volume/Weight: 50 mL								
Antimony	**<0.26**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 16:59	7440-36-0	
Arsenic	**6.3**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 16:59	7440-38-2	
Barium	**301**	mg/kg	1.1	0.032	1	05/28/19 07:10	05/28/19 16:59	7440-39-3	
Beryllium	**0.51J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:59	7440-41-7	
Cadmium	**0.34J**	mg/kg	0.53	0.021	1	05/28/19 07:10	05/28/19 16:59	7440-43-9	
Chromium	**13.3**	mg/kg	1.1	0.31	1	05/28/19 07:10	05/28/19 16:59	7440-47-3	
Copper	**17.6**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:59	7440-50-8	
Lead	**96.5**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 16:59	7439-92-1	
Nickel	**13.2**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 16:59	7440-02-0	
Selenium	**<0.40**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 16:59	7782-49-2	
Silver	**<0.30**	mg/kg	0.53	0.30	1	05/28/19 07:10	05/28/19 16:59	7440-22-4	
Thallium	**0.83J**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 16:59	7440-28-0	
Zinc	**97.4**	mg/kg	1.1	0.37	1	05/28/19 07:10	05/28/19 16:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.323 g Final Volume/Weight: 50 mL								
Mercury	**0.59**	mg/kg	0.22	0.11	1	05/30/19 12:54	05/30/19 20:29	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**<14.8**	ug/kg	59.1	14.8	10	05/29/19 09:25	06/02/19 17:04	83-32-9	
Acenaphthylene	**23.9J**	ug/kg	59.1	17.5	10	05/29/19 09:25	06/02/19 17:04	208-96-8	
Anthracene	**59.3**	ug/kg	59.1	16.9	10	05/29/19 09:25	06/02/19 17:04	120-12-7	
Benzo(a)anthracene	**380**	ug/kg	59.1	17.6	10	05/29/19 09:25	06/02/19 17:04	56-55-3	
Benzo(a)pyrene	**400**	ug/kg	59.1	21.1	10	05/29/19 09:25	06/02/19 17:04	50-32-8	
Benzo(b)fluoranthene	**441**	ug/kg	59.1	23.8	10	05/29/19 09:25	06/02/19 17:04	205-99-2	
Benzo(g,h,i)perylene	**406**	ug/kg	59.1	25.3	10	05/29/19 09:25	06/02/19 17:04	191-24-2	
Benzo(k)fluoranthene	**346**	ug/kg	59.1	22.5	10	05/29/19 09:25	06/02/19 17:04	207-08-9	
Chrysene	**488**	ug/kg	59.1	20.2	10	05/29/19 09:25	06/02/19 17:04	218-01-9	
Dibenz(a,h)anthracene	**107**	ug/kg	59.1	24.5	10	05/29/19 09:25	06/02/19 17:04	53-70-3	
Fluoranthene	**724**	ug/kg	59.1	30.7	10	05/29/19 09:25	06/02/19 17:04	206-44-0	
Fluorene	**<14.8**	ug/kg	59.1	14.8	10	05/29/19 09:25	06/02/19 17:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**337**	ug/kg	59.1	22.8	10	05/29/19 09:25	06/02/19 17:04	193-39-5	
1-Methylnaphthalene	**<12.1**	ug/kg	59.1	12.1	10	05/29/19 09:25	06/02/19 17:04	90-12-0	
2-Methylnaphthalene	**<12.4**	ug/kg	59.1	12.4	10	05/29/19 09:25	06/02/19 17:04	91-57-6	
Naphthalene	**<11.8**	ug/kg	59.1	11.8	10	05/29/19 09:25	06/02/19 17:04	91-20-3	ED
Phenanthrene	**196**	ug/kg	59.1	22.3	10	05/29/19 09:25	06/02/19 17:04	85-01-8	
Pyrene	**786**	ug/kg	59.1	23.6	10	05/29/19 09:25	06/02/19 17:04	129-00-0	M6
Surrogates									
2-Fluorobiphenyl (S)	62	%.	23-107		10	05/29/19 09:25	06/02/19 17:04	321-60-8	
p-Terphenyl-d14 (S)	80	%.	16-117		10	05/29/19 09:25	06/02/19 17:04	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	100-51-6	
4-Bromophenylphenyl ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	101-55-3	
Butylbenzylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	85-68-7	
4-Chloro-3-methylphenol	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	59-50-7	
4-Chloroaniline	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24	106-47-8	
bis(2-Chloroethoxy)methane	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	111-91-1	
bis(2-Chloroethyl) ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	111-44-4	
bis(2chloro1methylethyl) ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	108-60-1	
2-Chloronaphthalene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	91-58-7	
2-Chlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-57-8	
4-Chlorophenylphenyl ether	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	7005-72-3	
Dibenzofuran	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	132-64-9	
3,3'-Dichlorobenzidine	**<390**	ug/kg	780	390	1	05/29/19 09:29	06/02/19 16:24	91-94-1	
2,4-Dichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	120-83-2	
Diethylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	84-66-2	
2,4-Dimethylphenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	105-67-9	
Dimethylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	131-11-3	
Di-n-butylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	84-74-2	
4,6-Dinitro-2-methylphenol	**<390**	ug/kg	780	390	1	05/29/19 09:29	06/02/19 16:24	534-52-1	
2,4-Dinitrophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	51-28-5	
2,4-Dinitrotoluene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	121-14-2	
2,6-Dinitrotoluene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	606-20-2	
Di-n-octylphthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	117-84-0	
bis(2-Ethylhexyl)phthalate	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	117-81-7	
Hexachloro-1,3-butadiene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	87-68-3	
Hexachlorobenzene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	118-74-1	
Hexachlorocyclopentadiene	**<390**	ug/kg	390	390	1	05/29/19 09:29	06/02/19 16:24	77-47-4	
Hexachloroethane	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	67-72-1	
Isophorone	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	78-59-1	
2-Methylphenol(o-Cresol)	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<195**	ug/kg	780	195	1	05/29/19 09:29	06/02/19 16:24		
2-Nitroaniline	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-74-4	
3-Nitroaniline	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	99-09-2	
4-Nitroaniline	**<196**	ug/kg	390	196	1	05/29/19 09:29	06/02/19 16:24	100-01-6	
Nitrobenzene	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	98-95-3	
2-Nitrophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-75-5	
4-Nitrophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	100-02-7	
N-Nitroso-di-n-propylamine	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	621-64-7	
N-Nitrosodiphenylamine	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	86-30-6	
Pentachlorophenol	**<945**	ug/kg	1890	945	1	05/29/19 09:29	06/02/19 16:24	87-86-5	
Phenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	108-95-2	
2,4,5-Trichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	95-95-4	
2,4,6-Trichlorophenol	**<195**	ug/kg	390	195	1	05/29/19 09:29	06/02/19 16:24	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (0-2) **Lab ID: 50225466005** Collected: 05/16/19 10:25 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	72	%.	18-98		1	05/29/19 09:29	06/02/19 16:24	4165-60-0	
Phenol-d5 (S)	78	%.	18-108		1	05/29/19 09:29	06/02/19 16:24	4165-62-2	
2-Fluorophenol (S)	64	%.	16-104		1	05/29/19 09:29	06/02/19 16:24	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 16:24	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**16.2**	%	0.10	0.10	1		05/28/19 11:53		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.091 g Final Volume/Weight: 50 mL								
Antimony	**<0.28**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:10	7440-36-0	
Arsenic	**13.6**	mg/kg	1.2	0.17	1	05/28/19 07:10	05/28/19 17:10	7440-38-2	
Barium	**72.8**	mg/kg	1.2	0.035	1	05/28/19 07:10	05/28/19 17:10	7440-39-3	
Beryllium	**0.77**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:10	7440-41-7	
Cadmium	**0.13J**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:10	7440-43-9	
Chromium	**19.2**	mg/kg	1.2	0.34	1	05/28/19 07:10	05/28/19 17:10	7440-47-3	
Copper	**22.1**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:10	7440-50-8	
Lead	**20.0**	mg/kg	1.2	0.18	1	05/28/19 07:10	05/28/19 17:10	7439-92-1	
Nickel	**15.8**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:10	7440-02-0	
Selenium	**<0.44**	mg/kg	1.2	0.44	1	05/28/19 07:10	05/28/19 17:10	7782-49-2	
Silver	**<0.33**	mg/kg	0.59	0.33	1	05/28/19 07:10	05/28/19 17:10	7440-22-4	
Thallium	**1.1J**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:10	7440-28-0	
Zinc	**49.8**	mg/kg	1.2	0.41	1	05/28/19 07:10	05/28/19 17:10	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.324 g Final Volume/Weight: 50 mL								
Mercury	**<0.12**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:35	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.4	1.6	1	05/29/19 09:25	06/02/19 17:53	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.4	1.9	1	05/29/19 09:25	06/02/19 17:53	208-96-8	
Anthracene	**<1.8**	ug/kg	6.4	1.8	1	05/29/19 09:25	06/02/19 17:53	120-12-7	
Benzo(a)anthracene	**<1.9**	ug/kg	6.4	1.9	1	05/29/19 09:25	06/02/19 17:53	56-55-3	
Benzo(a)pyrene	**<2.3**	ug/kg	6.4	2.3	1	05/29/19 09:25	06/02/19 17:53	50-32-8	
Benzo(b)fluoranthene	**<2.6**	ug/kg	6.4	2.6	1	05/29/19 09:25	06/02/19 17:53	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.4	2.7	1	05/29/19 09:25	06/02/19 17:53	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.4	2.4	1	05/29/19 09:25	06/02/19 17:53	207-08-9	
Chrysene	**<2.2**	ug/kg	6.4	2.2	1	05/29/19 09:25	06/02/19 17:53	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.4	2.7	1	05/29/19 09:25	06/02/19 17:53	53-70-3	
Fluoranthene	**<3.3**	ug/kg	6.4	3.3	1	05/29/19 09:25	06/02/19 17:53	206-44-0	
Fluorene	**<1.6**	ug/kg	6.4	1.6	1	05/29/19 09:25	06/02/19 17:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	6.4	2.5	1	05/29/19 09:25	06/02/19 17:53	193-39-5	
1-Methylnaphthalene	**<1.3**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	90-12-0	
2-Methylnaphthalene	**<1.3**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	91-57-6	
Naphthalene	**4.1J**	ug/kg	6.4	1.3	1	05/29/19 09:25	06/02/19 17:53	91-20-3	
Phenanthrene	**2.7J**	ug/kg	6.4	2.4	1	05/29/19 09:25	06/02/19 17:53	85-01-8	
Pyrene	**<2.6**	ug/kg	6.4	2.6	1	05/29/19 09:25	06/02/19 17:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%.	23-107		1	05/29/19 09:25	06/02/19 17:53	321-60-8	
p-Terphenyl-d14 (S)	82	%.	16-117		1	05/29/19 09:25	06/02/19 17:53	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	100-51-6	
4-Bromophenylphenyl ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	101-55-3	
Butylbenzylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	85-68-7	
4-Chloro-3-methylphenol	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	59-50-7	
4-Chloroaniline	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12	106-47-8	
bis(2-Chloroethoxy)methane	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	111-91-1	
bis(2-Chloroethyl) ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	111-44-4	
bis(2chloro1methylethyl) ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	108-60-1	
2-Chloronaphthalene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	91-58-7	
2-Chlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-57-8	
4-Chlorophenylphenyl ether	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	7005-72-3	
Dibenzofuran	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	132-64-9	
3,3'-Dichlorobenzidine	**<422**	ug/kg	843	422	1	05/29/19 09:29	06/02/19 17:12	91-94-1	
2,4-Dichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	120-83-2	
Diethylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	84-66-2	
2,4-Dimethylphenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	105-67-9	
Dimethylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	131-11-3	
Di-n-butylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	84-74-2	
4,6-Dinitro-2-methylphenol	**<422**	ug/kg	843	422	1	05/29/19 09:29	06/02/19 17:12	534-52-1	
2,4-Dinitrophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	51-28-5	
2,4-Dinitrotoluene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	121-14-2	
2,6-Dinitrotoluene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	606-20-2	
Di-n-octylphthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	117-84-0	
bis(2-Ethylhexyl)phthalate	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	117-81-7	
Hexachloro-1,3-butadiene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	87-68-3	
Hexachlorobenzene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	118-74-1	
Hexachlorocyclopentadiene	**<422**	ug/kg	422	422	1	05/29/19 09:29	06/02/19 17:12	77-47-4	
Hexachloroethane	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	67-72-1	
Isophorone	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	78-59-1	
2-Methylphenol(o-Cresol)	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<211**	ug/kg	843	211	1	05/29/19 09:29	06/02/19 17:12		
2-Nitroaniline	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-74-4	
3-Nitroaniline	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	99-09-2	
4-Nitroaniline	**<212**	ug/kg	422	212	1	05/29/19 09:29	06/02/19 17:12	100-01-6	
Nitrobenzene	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	98-95-3	
2-Nitrophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-75-5	
4-Nitrophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	100-02-7	
N-Nitroso-di-n-propylamine	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	621-64-7	
N-Nitrosodiphenylamine	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	86-30-6	
Pentachlorophenol	**<1020**	ug/kg	2040	1020	1	05/29/19 09:29	06/02/19 17:12	87-86-5	
Phenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	108-95-2	
2,4,5-Trichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	95-95-4	
2,4,6-Trichlorophenol	**<211**	ug/kg	422	211	1	05/29/19 09:29	06/02/19 17:12	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-3 (2-4) **Lab ID: 50225466006** Collected: 05/16/19 10:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	78	%.	18-98		1	05/29/19 09:29	06/02/19 17:12	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 17:12	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 17:12	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 17:12	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**22.2**	%	0.10	0.10	1		05/28/19 12:39		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (0-2) **Lab ID: 50225466007** Collected: 05/16/19 12:15 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.113 g Final Volume/Weight: 50 mL								
Antimony	**<0.26**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 17:17	7440-36-0	
Arsenic	**7.7**	mg/kg	1.1	0.15	1	05/28/19 07:10	05/28/19 17:17	7440-38-2	
Barium	**187**	mg/kg	1.1	0.033	1	05/28/19 07:10	05/28/19 17:17	7440-39-3	
Beryllium	**0.60**	mg/kg	0.55	0.022	1	05/28/19 07:10	05/28/19 17:17	7440-41-7	
Cadmium	**0.63**	mg/kg	0.55	0.022	1	05/28/19 07:10	05/28/19 17:17	7440-43-9	
Chromium	**17.3**	mg/kg	1.1	0.32	1	05/28/19 07:10	05/28/19 17:17	7440-47-3	
Copper	**16.3**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:17	7440-50-8	
Lead	**44.7**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:17	7439-92-1	
Nickel	**12.8**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:17	7440-02-0	
Selenium	**0.50J**	mg/kg	1.1	0.41	1	05/28/19 07:10	05/28/19 17:17	7782-49-2	
Silver	**<0.31**	mg/kg	0.55	0.31	1	05/28/19 07:10	05/28/19 17:17	7440-22-4	
Thallium	**0.72J**	mg/kg	1.1	0.26	1	05/28/19 07:10	05/28/19 17:17	7440-28-0	
Zinc	**111**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 17:17	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.297 g Final Volume/Weight: 50 mL								
Mercury	**0.15J**	mg/kg	0.25	0.12	1	05/30/19 12:54	05/30/19 20:37	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**18.5**	%	0.10	0.10	1		05/28/19 12:39		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (2-4) **Lab ID: 50225466008** Collected: 05/16/19 12:20 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.086 g Final Volume/Weight: 50 mL								
Antimony	**<0.28**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:19	7440-36-0	
Arsenic	**18.5**	mg/kg	1.2	0.17	1	05/28/19 07:10	05/28/19 17:19	7440-38-2	
Barium	**98.4**	mg/kg	1.2	0.035	1	05/28/19 07:10	05/28/19 17:19	7440-39-3	
Beryllium	**0.91**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:19	7440-41-7	
Cadmium	**0.18J**	mg/kg	0.59	0.024	1	05/28/19 07:10	05/28/19 17:19	7440-43-9	
Chromium	**22.5**	mg/kg	1.2	0.34	1	05/28/19 07:10	05/28/19 17:19	7440-47-3	
Copper	**26.4**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:19	7440-50-8	
Lead	**15.1**	mg/kg	1.2	0.18	1	05/28/19 07:10	05/28/19 17:19	7439-92-1	
Nickel	**15.9**	mg/kg	1.2	0.13	1	05/28/19 07:10	05/28/19 17:19	7440-02-0	
Selenium	**<0.44**	mg/kg	1.2	0.44	1	05/28/19 07:10	05/28/19 17:19	7782-49-2	
Silver	**<0.33**	mg/kg	0.59	0.33	1	05/28/19 07:10	05/28/19 17:19	7440-22-4	
Thallium	**0.84J**	mg/kg	1.2	0.28	1	05/28/19 07:10	05/28/19 17:19	7440-28-0	
Zinc	**57.4**	mg/kg	1.2	0.41	1	05/28/19 07:10	05/28/19 17:19	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.303 g Final Volume/Weight: 50 mL								
Mercury	**<0.12**	mg/kg	0.25	0.12	1	05/30/19 12:54	05/30/19 20:39	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**21.9**	%	0.10	0.10	1		05/28/19 12:40		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (6-8) **Lab ID: 50225466009** Collected: 05/16/19 12:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**4.4J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:10	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.2	1.9	1	05/29/19 09:25	06/02/19 18:10	208-96-8	
Anthracene	**6.6**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:10	120-12-7	
Benzo(a)anthracene	**8.3**	ug/kg	6.2	1.9	1	05/29/19 09:25	06/02/19 18:10	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:10	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:10	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:10	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	207-08-9	
Chrysene	**14.6**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:10	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:10	53-70-3	
Fluoranthene	**11.5**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:10	206-44-0	
Fluorene	**7.4**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	193-39-5	
1-Methylnaphthalene	**672**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:10	90-12-0	
2-Methylnaphthalene	**1390**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:10	91-57-6	
Naphthalene	**221**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:10	91-20-3	
Phenanthrene	**22.2**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:10	85-01-8	
Pyrene	**14.8**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:10	321-60-8	
p-Terphenyl-d14 (S)	89	%.	16-117		1	05/29/19 09:25	06/02/19 18:10	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	100-51-6	
4-Bromophenylphenyl ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	101-55-3	
Butylbenzylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	85-68-7	
4-Chloro-3-methylphenol	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	59-50-7	
4-Chloroaniline	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28	106-47-8	
bis(2-Chloroethoxy)methane	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	111-91-1	
bis(2-Chloroethyl) ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	111-44-4	
bis(2chloro1methylethyl) ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	108-60-1	
2-Chloronaphthalene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	91-58-7	
2-Chlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-57-8	
4-Chlorophenylphenyl ether	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	7005-72-3	
Dibenzofuran	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	132-64-9	
3,3'-Dichlorobenzidine	**<412**	ug/kg	824	412	1	05/29/19 09:29	06/02/19 17:28	91-94-1	
2,4-Dichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	120-83-2	
Diethylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	84-66-2	
2,4-Dimethylphenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	105-67-9	
Dimethylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	131-11-3	
Di-n-butylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	84-74-2	
4,6-Dinitro-2-methylphenol	**<412**	ug/kg	824	412	1	05/29/19 09:29	06/02/19 17:28	534-52-1	
2,4-Dinitrophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (6-8) **Lab ID: 50225466009** Collected: 05/16/19 12:00 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	121-14-2	
2,6-Dinitrotoluene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	606-20-2	
Di-n-octylphthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	117-84-0	
bis(2-Ethylhexyl)phthalate	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	117-81-7	
Hexachloro-1,3-butadiene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	87-68-3	
Hexachlorobenzene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	118-74-1	
Hexachlorocyclopentadiene	**<412**	ug/kg	412	412	1	05/29/19 09:29	06/02/19 17:28	77-47-4	
Hexachloroethane	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	67-72-1	
Isophorone	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	78-59-1	
2-Methylphenol(o-Cresol)	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<206**	ug/kg	824	206	1	05/29/19 09:29	06/02/19 17:28		
2-Nitroaniline	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-74-4	
3-Nitroaniline	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	99-09-2	
4-Nitroaniline	**<207**	ug/kg	412	207	1	05/29/19 09:29	06/02/19 17:28	100-01-6	
Nitrobenzene	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	98-95-3	
2-Nitrophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-75-5	
4-Nitrophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	100-02-7	
N-Nitroso-di-n-propylamine	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	621-64-7	
N-Nitrosodiphenylamine	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	86-30-6	
Pentachlorophenol	**<998**	ug/kg	2000	998	1	05/29/19 09:29	06/02/19 17:28	87-86-5	
Phenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	108-95-2	
2,4,5-Trichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	95-95-4	
2,4,6-Trichlorophenol	**<206**	ug/kg	412	206	1	05/29/19 09:29	06/02/19 17:28	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%.	18-98		1	05/29/19 09:29	06/02/19 17:28	4165-60-0	
Phenol-d5 (S)	70	%.	18-108		1	05/29/19 09:29	06/02/19 17:28	4165-62-2	
2-Fluorophenol (S)	64	%.	16-104		1	05/29/19 09:29	06/02/19 17:28	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	10-114		1	05/29/19 09:29	06/02/19 17:28	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.7**	%	0.10	0.10	1		05/28/19 12:40		

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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (8-9) **Lab ID: 50225466010** Collected: 05/16/19 12:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:26	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	208-96-8	
Anthracene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	120-12-7	
Benzo(a)anthracene	**2.7J**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:26	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:26	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:26	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:26	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:26	207-08-9	
Chrysene	**4.3J**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:26	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:26	53-70-3	
Fluoranthene	**4.1J**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:26	206-44-0	
Fluorene	**2.4J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:26	193-39-5	
1-Methylnaphthalene	**195**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:26	90-12-0	
2-Methylnaphthalene	**398**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:26	91-57-6	
Naphthalene	**121**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:26	91-20-3	
Phenanthrene	**7.4**	ug/kg	6.2	2.3	1	05/29/19 09:25	06/02/19 18:26	85-01-8	
Pyrene	**5.0J**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	23-107		1	05/29/19 09:25	06/02/19 18:26	321-60-8	
p-Terphenyl-d14 (S)	90	%.	16-117		1	05/29/19 09:25	06/02/19 18:26	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	59-50-7	
4-Chloroaniline	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	91-58-7	
2-Chlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	7005-72-3	
Dibenzofuran	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	132-64-9	
3,3'-Dichlorobenzidine	**<409**	ug/kg	818	409	1	05/29/19 09:29	06/02/19 17:44	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	120-83-2	
Diethylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	105-67-9	
Dimethylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	84-74-2	
4,6-Dinitro-2-methylphenol	**<409**	ug/kg	818	409	1	05/29/19 09:29	06/02/19 17:44	534-52-1	
2,4-Dinitrophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (8-9) **Lab ID: 50225466010** Collected: 05/16/19 12:05 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	118-74-1	
Hexachlorocyclopentadiene	**<409**	ug/kg	409	409	1	05/29/19 09:29	06/02/19 17:44	77-47-4	
Hexachloroethane	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	67-72-1	
Isophorone	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	818	204	1	05/29/19 09:29	06/02/19 17:44		
2-Nitroaniline	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-74-4	
3-Nitroaniline	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	99-09-2	
4-Nitroaniline	**<206**	ug/kg	409	206	1	05/29/19 09:29	06/02/19 17:44	100-01-6	
Nitrobenzene	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	98-95-3	
2-Nitrophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-75-5	
4-Nitrophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	86-30-6	
Pentachlorophenol	**<991**	ug/kg	1980	991	1	05/29/19 09:29	06/02/19 17:44	87-86-5	
Phenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	409	204	1	05/29/19 09:29	06/02/19 17:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%.	18-98		1	05/29/19 09:29	06/02/19 17:44	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 17:44	4165-62-2	
2-Fluorophenol (S)	70	%.	16-104		1	05/29/19 09:29	06/02/19 17:44	367-12-4	
2,4,6-Tribromophenol (S)	67	%.	10-114		1	05/29/19 09:29	06/02/19 17:44	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.3**	%	0.10	0.10	1		05/28/19 12:40		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (9-10.5) **Lab ID: 50225466011** Collected: 05/16/19 12:10 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:43	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	208-96-8	
Anthracene	**3.4J**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	120-12-7	
Benzo(a)anthracene	**6.5**	ug/kg	6.2	1.8	1	05/29/19 09:25	06/02/19 18:43	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.2	2.2	1	05/29/19 09:25	06/02/19 18:43	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:43	205-99-2	
Benzo(g,h,i)perylene	**<2.7**	ug/kg	6.2	2.7	1	05/29/19 09:25	06/02/19 18:43	191-24-2	
Benzo(k)fluoranthene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:43	207-08-9	
Chrysene	**11.9**	ug/kg	6.2	2.1	1	05/29/19 09:25	06/02/19 18:43	218-01-9	
Dibenz(a,h)anthracene	**<2.6**	ug/kg	6.2	2.6	1	05/29/19 09:25	06/02/19 18:43	53-70-3	
Fluoranthene	**9.6**	ug/kg	6.2	3.2	1	05/29/19 09:25	06/02/19 18:43	206-44-0	
Fluorene	**5.8J**	ug/kg	6.2	1.6	1	05/29/19 09:25	06/02/19 18:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.2	2.4	1	05/29/19 09:25	06/02/19 18:43	193-39-5	
1-Methylnaphthalene	**314**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:43	90-12-0	
2-Methylnaphthalene	**592**	ug/kg	6.2	1.3	1	05/29/19 09:25	06/02/19 18:43	91-57-6	
Naphthalene	**200**	ug/kg	6.2	1.2	1	05/29/19 09:25	06/02/19 18:43	91-20-3	
Phenanthrene	**17.8**	ug/kg	6.2	2.3	1	05/29/19 09:25	06/02/19 18:43	85-01-8	
Pyrene	**11.9**	ug/kg	6.2	2.5	1	05/29/19 09:25	06/02/19 18:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:43	321-60-8	
p-Terphenyl-d14 (S)	89	%.	16-117		1	05/29/19 09:25	06/02/19 18:43	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	100-51-6	
4-Bromophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	101-55-3	
Butylbenzylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	85-68-7	
4-Chloro-3-methylphenol	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	59-50-7	
4-Chloroaniline	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00	106-47-8	
bis(2-Chloroethoxy)methane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	111-91-1	
bis(2-Chloroethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	111-44-4	
bis(2chloro1methylethyl) ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	108-60-1	
2-Chloronaphthalene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	91-58-7	
2-Chlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-57-8	
4-Chlorophenylphenyl ether	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	7005-72-3	
Dibenzofuran	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	132-64-9	
3,3'-Dichlorobenzidine	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 18:00	91-94-1	
2,4-Dichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	120-83-2	
Diethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	84-66-2	
2,4-Dimethylphenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	105-67-9	
Dimethylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	131-11-3	
Di-n-butylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	84-74-2	
4,6-Dinitro-2-methylphenol	**<408**	ug/kg	817	408	1	05/29/19 09:29	06/02/19 18:00	534-52-1	
2,4-Dinitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	51-28-5	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-4 (9-10.5) **Lab ID: 50225466011** Collected: 05/16/19 12:10 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.4 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	121-14-2	
2,6-Dinitrotoluene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	606-20-2	
Di-n-octylphthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	117-84-0	
bis(2-Ethylhexyl)phthalate	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	117-81-7	
Hexachloro-1,3-butadiene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	87-68-3	
Hexachlorobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	118-74-1	
Hexachlorocyclopentadiene	**<408**	ug/kg	408	408	1	05/29/19 09:29	06/02/19 18:00	77-47-4	
Hexachloroethane	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	67-72-1	
Isophorone	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	78-59-1	
2-Methylphenol(o-Cresol)	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<204**	ug/kg	817	204	1	05/29/19 09:29	06/02/19 18:00		
2-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-74-4	
3-Nitroaniline	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	99-09-2	
4-Nitroaniline	**<205**	ug/kg	408	205	1	05/29/19 09:29	06/02/19 18:00	100-01-6	
Nitrobenzene	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	98-95-3	
2-Nitrophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-75-5	
4-Nitrophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	100-02-7	
N-Nitroso-di-n-propylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	621-64-7	
N-Nitrosodiphenylamine	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	86-30-6	
Pentachlorophenol	**<990**	ug/kg	1980	990	1	05/29/19 09:29	06/02/19 18:00	87-86-5	
Phenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	108-95-2	
2,4,5-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	95-95-4	
2,4,6-Trichlorophenol	**<204**	ug/kg	408	204	1	05/29/19 09:29	06/02/19 18:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%.	18-98		1	05/29/19 09:29	06/02/19 18:00	4165-60-0	
Phenol-d5 (S)	75	%.	18-108		1	05/29/19 09:29	06/02/19 18:00	4165-62-2	
2-Fluorophenol (S)	68	%.	16-104		1	05/29/19 09:29	06/02/19 18:00	367-12-4	
2,4,6-Tribromophenol (S)	63	%.	10-114		1	05/29/19 09:29	06/02/19 18:00	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.3**	%	0.10	0.10	1		05/28/19 12:40		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (0-2) **Lab ID: 50225466012** Collected: 05/16/19 11:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.195 g Final Volume/Weight: 50 mL								
Antimony	**0.23J**	mg/kg	0.95	0.23	1	05/28/19 07:10	05/28/19 17:21	7440-36-0	
Arsenic	**6.1**	mg/kg	0.95	0.13	1	05/28/19 07:10	05/28/19 17:21	7440-38-2	
Barium	**147**	mg/kg	0.95	0.029	1	05/28/19 07:10	05/28/19 17:21	7440-39-3	
Beryllium	**0.54**	mg/kg	0.48	0.019	1	05/28/19 07:10	05/28/19 17:21	7440-41-7	
Cadmium	**0.20J**	mg/kg	0.48	0.019	1	05/28/19 07:10	05/28/19 17:21	7440-43-9	
Chromium	**14.9**	mg/kg	0.95	0.28	1	05/28/19 07:10	05/28/19 17:21	7440-47-3	
Copper	**12.1**	mg/kg	0.95	0.10	1	05/28/19 07:10	05/28/19 17:21	7440-50-8	
Lead	**107**	mg/kg	0.95	0.14	1	05/28/19 07:10	05/28/19 17:21	7439-92-1	
Nickel	**9.3**	mg/kg	0.95	0.10	1	05/28/19 07:10	05/28/19 17:21	7440-02-0	
Selenium	**<0.35**	mg/kg	0.95	0.35	1	05/28/19 07:10	05/28/19 17:21	7782-49-2	
Silver	**<0.27**	mg/kg	0.48	0.27	1	05/28/19 07:10	05/28/19 17:21	7440-22-4	
Thallium	**0.59J**	mg/kg	0.95	0.23	1	05/28/19 07:10	05/28/19 17:21	7440-28-0	
Zinc	**57.5**	mg/kg	0.95	0.33	1	05/28/19 07:10	05/28/19 17:21	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.322 g Final Volume/Weight: 50 mL								
Mercury	**0.85**	mg/kg	0.21	0.10	1	05/30/19 12:54	05/30/19 20:42	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**12.3**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (0-2) DUP **Lab ID: 50225466013** Collected: 05/16/19 11:40 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.166 g Final Volume/Weight: 50 mL								
Antimony	**<0.23**	mg/kg	0.98	0.23	1	05/28/19 07:10	05/28/19 17:23	7440-36-0	
Arsenic	**7.5**	mg/kg	0.98	0.14	1	05/28/19 07:10	05/28/19 17:23	7440-38-2	
Barium	**136**	mg/kg	0.98	0.029	1	05/28/19 07:10	05/28/19 17:23	7440-39-3	
Beryllium	**0.66**	mg/kg	0.49	0.020	1	05/28/19 07:10	05/28/19 17:23	7440-41-7	
Cadmium	**0.14J**	mg/kg	0.49	0.020	1	05/28/19 07:10	05/28/19 17:23	7440-43-9	
Chromium	**13.9**	mg/kg	0.98	0.28	1	05/28/19 07:10	05/28/19 17:23	7440-47-3	
Copper	**116**	mg/kg	0.98	0.11	1	05/28/19 07:10	05/28/19 17:23	7440-50-8	
Lead	**95.3**	mg/kg	0.98	0.15	1	05/28/19 07:10	05/28/19 17:23	7439-92-1	
Nickel	**10.5**	mg/kg	0.98	0.11	1	05/28/19 07:10	05/28/19 17:23	7440-02-0	
Selenium	**<0.36**	mg/kg	0.98	0.36	1	05/28/19 07:10	05/28/19 17:23	7782-49-2	
Silver	**<0.27**	mg/kg	0.49	0.27	1	05/28/19 07:10	05/28/19 17:23	7440-22-4	
Thallium	**0.60J**	mg/kg	0.98	0.23	1	05/28/19 07:10	05/28/19 17:23	7440-28-0	
Zinc	**74.1**	mg/kg	0.98	0.34	1	05/28/19 07:10	05/28/19 17:23	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.328 g Final Volume/Weight: 50 mL								
Mercury	**1.0**	mg/kg	0.21	0.10	1	05/30/19 12:54	05/30/19 20:44	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**12.1**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (2-4) **Lab ID: 50225466014** Collected: 05/16/19 11:45 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.065 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:25	7440-36-0	
Arsenic	**7.7**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 17:25	7440-38-2	
Barium	**91.6**	mg/kg	1.1	0.034	1	05/28/19 07:10	05/28/19 17:25	7440-39-3	
Beryllium	**0.67**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 17:25	7440-41-7	
Cadmium	**0.099J**	mg/kg	0.57	0.023	1	05/28/19 07:10	05/28/19 17:25	7440-43-9	
Chromium	**15.1**	mg/kg	1.1	0.33	1	05/28/19 07:10	05/28/19 17:25	7440-47-3	
Copper	**11.8**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 17:25	7440-50-8	
Lead	**17.8**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:25	7439-92-1	
Nickel	**11.4**	mg/kg	1.1	0.13	1	05/28/19 07:10	05/28/19 17:25	7440-02-0	
Selenium	**<0.42**	mg/kg	1.1	0.42	1	05/28/19 07:10	05/28/19 17:25	7782-49-2	
Silver	**<0.32**	mg/kg	0.57	0.32	1	05/28/19 07:10	05/28/19 17:25	7440-22-4	
Thallium	**0.54J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:25	7440-28-0	
Zinc	**49.4**	mg/kg	1.1	0.40	1	05/28/19 07:10	05/28/19 17:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.307 g Final Volume/Weight: 50 mL								
Mercury	**0.42**	mg/kg	0.24	0.12	1	05/30/19 12:54	05/30/19 20:46	7439-97-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**17.8**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (9-11) **Lab ID: 50225466015** Collected: 05/16/19 11:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**6.3J**	ug/kg	6.6	1.7	1	05/29/19 09:25	06/02/19 18:59	83-32-9	
Acenaphthylene	**<2.0**	ug/kg	6.6	2.0	1	05/29/19 09:25	06/02/19 18:59	208-96-8	
Anthracene	**5.9J**	ug/kg	6.6	1.9	1	05/29/19 09:25	06/02/19 18:59	120-12-7	
Benzo(a)anthracene	**9.6**	ug/kg	6.6	2.0	1	05/29/19 09:25	06/02/19 18:59	56-55-3	
Benzo(a)pyrene	**2.9J**	ug/kg	6.6	2.4	1	05/29/19 09:25	06/02/19 18:59	50-32-8	
Benzo(b)fluoranthene	**4.0J**	ug/kg	6.6	2.7	1	05/29/19 09:25	06/02/19 18:59	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	6.6	2.8	1	05/29/19 09:25	06/02/19 18:59	191-24-2	
Benzo(k)fluoranthene	**3.2J**	ug/kg	6.6	2.5	1	05/29/19 09:25	06/02/19 18:59	207-08-9	
Chrysene	**13.9**	ug/kg	6.6	2.3	1	05/29/19 09:25	06/02/19 18:59	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.6	2.7	1	05/29/19 09:25	06/02/19 18:59	53-70-3	
Fluoranthene	**17.2**	ug/kg	6.6	3.4	1	05/29/19 09:25	06/02/19 18:59	206-44-0	
Fluorene	**11.2**	ug/kg	6.6	1.7	1	05/29/19 09:25	06/02/19 18:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.6**	ug/kg	6.6	2.6	1	05/29/19 09:25	06/02/19 18:59	193-39-5	
1-Methylnaphthalene	**395**	ug/kg	6.6	1.4	1	05/29/19 09:25	06/02/19 18:59	90-12-0	
2-Methylnaphthalene	**469**	ug/kg	6.6	1.4	1	05/29/19 09:25	06/02/19 18:59	91-57-6	
Naphthalene	**<1.3**	ug/kg	6.6	1.3	1	05/29/19 09:25	06/02/19 18:59	91-20-3	
Phenanthrene	**29.1**	ug/kg	6.6	2.5	1	05/29/19 09:25	06/02/19 18:59	85-01-8	
Pyrene	**20.7**	ug/kg	6.6	2.6	1	05/29/19 09:25	06/02/19 18:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	23-107		1	05/29/19 09:25	06/02/19 18:59	321-60-8	
p-Terphenyl-d14 (S)	93	%.	16-117		1	05/29/19 09:25	06/02/19 18:59	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	100-51-6	
4-Bromophenylphenyl ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	101-55-3	
Butylbenzylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	85-68-7	
4-Chloro-3-methylphenol	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	59-50-7	
4-Chloroaniline	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16	106-47-8	
bis(2-Chloroethoxy)methane	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	111-91-1	
bis(2-Chloroethyl) ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	111-44-4	
bis(2chloro1methylethyl) ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	108-60-1	
2-Chloronaphthalene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	91-58-7	
2-Chlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-57-8	
4-Chlorophenylphenyl ether	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	7005-72-3	
Dibenzofuran	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	132-64-9	
3,3'-Dichlorobenzidine	**<436**	ug/kg	871	436	1	05/29/19 09:29	06/02/19 18:16	91-94-1	
2,4-Dichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	120-83-2	
Diethylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	84-66-2	
2,4-Dimethylphenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	105-67-9	
Dimethylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	131-11-3	
Di-n-butylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	84-74-2	
4,6-Dinitro-2-methylphenol	**<436**	ug/kg	871	436	1	05/29/19 09:29	06/02/19 18:16	534-52-1	
2,4-Dinitrophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (9-11) **Lab ID: 50225466015** Collected: 05/16/19 11:30 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	121-14-2	
2,6-Dinitrotoluene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	606-20-2	
Di-n-octylphthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	117-84-0	
bis(2-Ethylhexyl)phthalate	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	117-81-7	
Hexachloro-1,3-butadiene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	87-68-3	
Hexachlorobenzene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	118-74-1	
Hexachlorocyclopentadiene	**<436**	ug/kg	436	436	1	05/29/19 09:29	06/02/19 18:16	77-47-4	
Hexachloroethane	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	67-72-1	
Isophorone	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	78-59-1	
2-Methylphenol(o-Cresol)	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<218**	ug/kg	871	218	1	05/29/19 09:29	06/02/19 18:16		
2-Nitroaniline	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-74-4	
3-Nitroaniline	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	99-09-2	
4-Nitroaniline	**<219**	ug/kg	436	219	1	05/29/19 09:29	06/02/19 18:16	100-01-6	
Nitrobenzene	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	98-95-3	
2-Nitrophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-75-5	
4-Nitrophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	100-02-7	
N-Nitroso-di-n-propylamine	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	621-64-7	
N-Nitrosodiphenylamine	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	86-30-6	
Pentachlorophenol	**<1060**	ug/kg	2110	1060	1	05/29/19 09:29	06/02/19 18:16	87-86-5	
Phenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	108-95-2	
2,4,5-Trichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	95-95-4	
2,4,6-Trichlorophenol	**<218**	ug/kg	436	218	1	05/29/19 09:29	06/02/19 18:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%.	18-98		1	05/29/19 09:29	06/02/19 18:16	4165-60-0	
Phenol-d5 (S)	76	%.	18-108		1	05/29/19 09:29	06/02/19 18:16	4165-62-2	
2-Fluorophenol (S)	69	%.	16-104		1	05/29/19 09:29	06/02/19 18:16	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	10-114		1	05/29/19 09:29	06/02/19 18:16	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**24.8**	%	0.10	0.10	1		05/28/19 12:41		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) **Lab ID: 50225466016** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**37.6**	ug/kg	7.3	1.8	1	05/29/19 09:25	06/02/19 19:16	83-32-9	
Acenaphthylene	**11.0**	ug/kg	7.3	2.2	1	05/29/19 09:25	06/02/19 19:16	208-96-8	
Anthracene	**41.0**	ug/kg	7.3	2.1	1	05/29/19 09:25	06/02/19 19:16	120-12-7	
Benzo(a)anthracene	**22.2**	ug/kg	7.3	2.2	1	05/29/19 09:25	06/02/19 19:16	56-55-3	
Benzo(a)pyrene	**6.3J**	ug/kg	7.3	2.6	1	05/29/19 09:25	06/02/19 19:16	50-32-8	
Benzo(b)fluoranthene	**8.1**	ug/kg	7.3	3.0	1	05/29/19 09:25	06/02/19 19:16	205-99-2	
Benzo(g,h,i)perylene	**<3.1**	ug/kg	7.3	3.1	1	05/29/19 09:25	06/02/19 19:16	191-24-2	
Benzo(k)fluoranthene	**6.6J**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	207-08-9	
Chrysene	**22.6**	ug/kg	7.3	2.5	1	05/29/19 09:25	06/02/19 19:16	218-01-9	
Dibenz(a,h)anthracene	**<3.1**	ug/kg	7.3	3.1	1	05/29/19 09:25	06/02/19 19:16	53-70-3	
Fluoranthene	**134**	ug/kg	7.3	3.8	1	05/29/19 09:25	06/02/19 19:16	206-44-0	
Fluorene	**89.4**	ug/kg	7.3	1.8	1	05/29/19 09:25	06/02/19 19:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.8**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	193-39-5	
1-Methylnaphthalene	**27.4**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	90-12-0	
2-Methylnaphthalene	**38.9**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	91-57-6	
Naphthalene	**144**	ug/kg	7.3	1.5	1	05/29/19 09:25	06/02/19 19:16	91-20-3	
Phenanthrene	**179**	ug/kg	7.3	2.8	1	05/29/19 09:25	06/02/19 19:16	85-01-8	
Pyrene	**110**	ug/kg	7.3	2.9	1	05/29/19 09:25	06/02/19 19:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%.	23-107		1	05/29/19 09:25	06/02/19 19:16	321-60-8	
p-Terphenyl-d14 (S)	87	%.	16-117		1	05/29/19 09:25	06/02/19 19:16	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	100-51-6	
4-Bromophenylphenyl ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	101-55-3	
Butylbenzylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	85-68-7	
4-Chloro-3-methylphenol	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	59-50-7	
4-Chloroaniline	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31	106-47-8	
bis(2-Chloroethoxy)methane	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	111-91-1	
bis(2-Chloroethyl) ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	111-44-4	
bis(2chloro1methylethyl) ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	108-60-1	
2-Chloronaphthalene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	91-58-7	
2-Chlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-57-8	
4-Chlorophenylphenyl ether	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	7005-72-3	
Dibenzofuran	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	132-64-9	
3,3'-Dichlorobenzidine	**<484**	ug/kg	969	484	1	05/29/19 09:29	06/02/19 18:31	91-94-1	
2,4-Dichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	120-83-2	
Diethylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	84-66-2	
2,4-Dimethylphenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	105-67-9	
Dimethylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	131-11-3	
Di-n-butylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	84-74-2	
4,6-Dinitro-2-methylphenol	**<484**	ug/kg	969	484	1	05/29/19 09:29	06/02/19 18:31	534-52-1	
2,4-Dinitrophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	51-28-5	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) **Lab ID: 50225466016** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	121-14-2	
2,6-Dinitrotoluene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	606-20-2	
Di-n-octylphthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	117-84-0	
bis(2-Ethylhexyl)phthalate	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	117-81-7	
Hexachloro-1,3-butadiene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	87-68-3	
Hexachlorobenzene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	118-74-1	
Hexachlorocyclopentadiene	**<484**	ug/kg	484	484	1	05/29/19 09:29	06/02/19 18:31	77-47-4	
Hexachloroethane	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	67-72-1	
Isophorone	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	78-59-1	
2-Methylphenol(o-Cresol)	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<242**	ug/kg	969	242	1	05/29/19 09:29	06/02/19 18:31		
2-Nitroaniline	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-74-4	
3-Nitroaniline	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	99-09-2	
4-Nitroaniline	**<244**	ug/kg	484	244	1	05/29/19 09:29	06/02/19 18:31	100-01-6	
Nitrobenzene	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	98-95-3	
2-Nitrophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-75-5	
4-Nitrophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	100-02-7	
N-Nitroso-di-n-propylamine	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	621-64-7	
N-Nitrosodiphenylamine	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	86-30-6	
Pentachlorophenol	**<1170**	ug/kg	2350	1170	1	05/29/19 09:29	06/02/19 18:31	87-86-5	
Phenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	108-95-2	
2,4,5-Trichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	95-95-4	
2,4,6-Trichlorophenol	**<242**	ug/kg	484	242	1	05/29/19 09:29	06/02/19 18:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	18-98		1	05/29/19 09:29	06/02/19 18:31	4165-60-0	
Phenol-d5 (S)	77	%.	18-108		1	05/29/19 09:29	06/02/19 18:31	4165-62-2	
2-Fluorophenol (S)	67	%.	16-104		1	05/29/19 09:29	06/02/19 18:31	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	10-114		1	05/29/19 09:29	06/02/19 18:31	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**32.6**	%	0.10	0.10	1		05/28/19 12:42		

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) DUP **Lab ID: 50225466017** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.6**	ug/kg	6.5	1.6	1	05/29/19 09:25	06/02/19 19:32	83-32-9	
Acenaphthylene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	208-96-8	
Anthracene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	120-12-7	
Benzo(a)anthracene	**<1.9**	ug/kg	6.5	1.9	1	05/29/19 09:25	06/02/19 19:32	56-55-3	
Benzo(a)pyrene	**<2.3**	ug/kg	6.5	2.3	1	05/29/19 09:25	06/02/19 19:32	50-32-8	
Benzo(b)fluoranthene	**<2.6**	ug/kg	6.5	2.6	1	05/29/19 09:25	06/02/19 19:32	205-99-2	
Benzo(g,h,i)perylene	**<2.8**	ug/kg	6.5	2.8	1	05/29/19 09:25	06/02/19 19:32	191-24-2	
Benzo(k)fluoranthene	**<2.5**	ug/kg	6.5	2.5	1	05/29/19 09:25	06/02/19 19:32	207-08-9	
Chrysene	**<2.2**	ug/kg	6.5	2.2	1	05/29/19 09:25	06/02/19 19:32	218-01-9	
Dibenz(a,h)anthracene	**<2.7**	ug/kg	6.5	2.7	1	05/29/19 09:25	06/02/19 19:32	53-70-3	
Fluoranthene	**<3.4**	ug/kg	6.5	3.4	1	05/29/19 09:25	06/02/19 19:32	206-44-0	
Fluorene	**<1.6**	ug/kg	6.5	1.6	1	05/29/19 09:25	06/02/19 19:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.5**	ug/kg	6.5	2.5	1	05/29/19 09:25	06/02/19 19:32	193-39-5	
1-Methylnaphthalene	**19.0**	ug/kg	6.5	1.3	1	05/29/19 09:25	06/02/19 19:32	90-12-0	
2-Methylnaphthalene	**21.3**	ug/kg	6.5	1.4	1	05/29/19 09:25	06/02/19 19:32	91-57-6	
Naphthalene	**14.8**	ug/kg	6.5	1.3	1	05/29/19 09:25	06/02/19 19:32	91-20-3	
Phenanthrene	**<2.4**	ug/kg	6.5	2.4	1	05/29/19 09:25	06/02/19 19:32	85-01-8	
Pyrene	**<2.6**	ug/kg	6.5	2.6	1	05/29/19 09:25	06/02/19 19:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%.	23-107		1	05/29/19 09:25	06/02/19 19:32	321-60-8	
p-Terphenyl-d14 (S)	85	%.	16-117		1	05/29/19 09:25	06/02/19 19:32	1718-51-0	
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	100-51-6	
4-Bromophenylphenyl ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	101-55-3	
Butylbenzylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	85-68-7	
4-Chloro-3-methylphenol	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	59-50-7	
4-Chloroaniline	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47	106-47-8	
bis(2-Chloroethoxy)methane	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	111-91-1	
bis(2-Chloroethyl) ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	111-44-4	
bis(2chloro1methylethyl) ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	108-60-1	
2-Chloronaphthalene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	91-58-7	
2-Chlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-57-8	
4-Chlorophenylphenyl ether	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	7005-72-3	
Dibenzofuran	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	132-64-9	
3,3'-Dichlorobenzidine	**<428**	ug/kg	856	428	1	05/29/19 09:29	06/02/19 18:47	91-94-1	
2,4-Dichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	120-83-2	
Diethylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	84-66-2	
2,4-Dimethylphenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	105-67-9	
Dimethylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	131-11-3	
Di-n-butylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	84-74-2	
4,6-Dinitro-2-methylphenol	**<428**	ug/kg	856	428	1	05/29/19 09:29	06/02/19 18:47	534-52-1	
2,4-Dinitrophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	51-28-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (11-13) DUP **Lab ID: 50225466017** Collected: 05/16/19 11:35 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.3 g Final Volume/Weight: 1 mL								
2,4-Dinitrotoluene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	121-14-2	
2,6-Dinitrotoluene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	606-20-2	
Di-n-octylphthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	117-84-0	
bis(2-Ethylhexyl)phthalate	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	117-81-7	
Hexachloro-1,3-butadiene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	87-68-3	
Hexachlorobenzene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	118-74-1	
Hexachlorocyclopentadiene	**<428**	ug/kg	428	428	1	05/29/19 09:29	06/02/19 18:47	77-47-4	
Hexachloroethane	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	67-72-1	
Isophorone	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	78-59-1	
2-Methylphenol(o-Cresol)	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<214**	ug/kg	856	214	1	05/29/19 09:29	06/02/19 18:47		
2-Nitroaniline	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-74-4	
3-Nitroaniline	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	99-09-2	
4-Nitroaniline	**<215**	ug/kg	428	215	1	05/29/19 09:29	06/02/19 18:47	100-01-6	
Nitrobenzene	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	98-95-3	
2-Nitrophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-75-5	
4-Nitrophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	100-02-7	
N-Nitroso-di-n-propylamine	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	621-64-7	
N-Nitrosodiphenylamine	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	86-30-6	
Pentachlorophenol	**<1040**	ug/kg	2070	1040	1	05/29/19 09:29	06/02/19 18:47	87-86-5	
Phenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	108-95-2	
2,4,5-Trichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	95-95-4	
2,4,6-Trichlorophenol	**<214**	ug/kg	428	214	1	05/29/19 09:29	06/02/19 18:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	18-98		1	05/29/19 09:29	06/02/19 18:47	4165-60-0	
Phenol-d5 (S)	80	%.	18-108		1	05/29/19 09:29	06/02/19 18:47	4165-62-2	
2-Fluorophenol (S)	71	%.	16-104		1	05/29/19 09:29	06/02/19 18:47	367-12-4	
2,4,6-Tribromophenol (S)	66	%.	10-114		1	05/29/19 09:29	06/02/19 18:47	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**23.7**	%	0.10	0.10	1		05/28/19 12:42		

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.11 g Final Volume/Weight: 50 mL								
Antimony	**<0.27**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:28	7440-36-0	
Arsenic	**6.6**	mg/kg	1.1	0.16	1	05/28/19 07:10	05/28/19 17:28	7440-38-2	
Barium	**118**	mg/kg	1.1	0.033	1	05/28/19 07:10	05/28/19 17:28	7440-39-3	
Beryllium	**1.1**	mg/kg	0.56	0.022	1	05/28/19 07:10	05/28/19 17:28	7440-41-7	
Cadmium	**0.16J**	mg/kg	0.56	0.022	1	05/28/19 07:10	05/28/19 17:28	7440-43-9	
Chromium	**32.3**	mg/kg	1.1	0.32	1	05/28/19 07:10	05/28/19 17:28	7440-47-3	
Copper	**13.5**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:28	7440-50-8	
Lead	**14.0**	mg/kg	1.1	0.17	1	05/28/19 07:10	05/28/19 17:28	7439-92-1	
Nickel	**15.0**	mg/kg	1.1	0.12	1	05/28/19 07:10	05/28/19 17:28	7440-02-0	
Selenium	**<0.41**	mg/kg	1.1	0.41	1	05/28/19 07:10	05/28/19 17:28	7782-49-2	
Silver	**<0.31**	mg/kg	0.56	0.31	1	05/28/19 07:10	05/28/19 17:28	7440-22-4	
Thallium	**0.50J**	mg/kg	1.1	0.27	1	05/28/19 07:10	05/28/19 17:28	7440-28-0	
Zinc	**57.3**	mg/kg	1.1	0.39	1	05/28/19 07:10	05/28/19 17:28	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Initial Volume/Weight: 0.324 g Final Volume/Weight: 50 mL								
Mercury	**<0.11**	mg/kg	0.23	0.11	1	05/30/19 12:54	05/30/19 20:48	7439-97-6	
8270 PAH Combo Soil	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Acenaphthene	**<1.5**	ug/kg	6.1	1.5	1	05/29/19 09:25	06/03/19 13:19	83-32-9	
Acenaphthylene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	208-96-8	
Anthracene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	120-12-7	
Benzo(a)anthracene	**<1.8**	ug/kg	6.1	1.8	1	05/29/19 09:25	06/03/19 13:19	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/kg	6.1	2.2	1	05/29/19 09:25	06/03/19 13:19	50-32-8	
Benzo(b)fluoranthene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	205-99-2	
Benzo(g,h,i)perylene	**<2.6**	ug/kg	6.1	2.6	1	05/29/19 09:25	06/03/19 13:19	191-24-2	
Benzo(k)fluoranthene	**<2.3**	ug/kg	6.1	2.3	1	05/29/19 09:25	06/03/19 13:19	207-08-9	
Chrysene	**<2.1**	ug/kg	6.1	2.1	1	05/29/19 09:25	06/03/19 13:19	218-01-9	
Dibenz(a,h)anthracene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	53-70-3	
Fluoranthene	**<3.2**	ug/kg	6.1	3.2	1	05/29/19 09:25	06/03/19 13:19	206-44-0	
Fluorene	**<1.5**	ug/kg	6.1	1.5	1	05/29/19 09:25	06/03/19 13:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<2.4**	ug/kg	6.1	2.4	1	05/29/19 09:25	06/03/19 13:19	193-39-5	
1-Methylnaphthalene	**<1.3**	ug/kg	6.1	1.3	1	05/29/19 09:25	06/03/19 13:19	90-12-0	
2-Methylnaphthalene	**<1.3**	ug/kg	6.1	1.3	1	05/29/19 09:25	06/03/19 13:19	91-57-6	
Naphthalene	**<1.2**	ug/kg	6.1	1.2	1	05/29/19 09:25	06/03/19 13:19	91-20-3	
Phenanthrene	**<2.3**	ug/kg	6.1	2.3	1	05/29/19 09:25	06/03/19 13:19	85-01-8	
Pyrene	**<2.5**	ug/kg	6.1	2.5	1	05/29/19 09:25	06/03/19 13:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%.	23-107		1	05/29/19 09:25	06/03/19 13:19	321-60-8	
p-Terphenyl-d14 (S)	86	%.	16-117		1	05/29/19 09:25	06/03/19 13:19	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Benzyl alcohol	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	100-51-6	
4-Bromophenylphenyl ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	101-55-3	
Butylbenzylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	85-68-7	
4-Chloro-3-methylphenol	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	59-50-7	
4-Chloroaniline	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03	106-47-8	
bis(2-Chloroethoxy)methane	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	111-91-1	
bis(2-Chloroethyl) ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	111-44-4	
bis(2chloro1methylethyl) ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	108-60-1	
2-Chloronaphthalene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	91-58-7	
2-Chlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-57-8	
4-Chlorophenylphenyl ether	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	7005-72-3	
Dibenzofuran	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	132-64-9	
3,3'-Dichlorobenzidine	**<405**	ug/kg	809	405	1	05/29/19 09:29	06/02/19 19:03	91-94-1	
2,4-Dichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	120-83-2	
Diethylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	84-66-2	
2,4-Dimethylphenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	105-67-9	
Dimethylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	131-11-3	
Di-n-butylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	84-74-2	
4,6-Dinitro-2-methylphenol	**<405**	ug/kg	809	405	1	05/29/19 09:29	06/02/19 19:03	534-52-1	
2,4-Dinitrophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	51-28-5	
2,4-Dinitrotoluene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	121-14-2	
2,6-Dinitrotoluene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	606-20-2	
Di-n-octylphthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	117-84-0	
bis(2-Ethylhexyl)phthalate	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	117-81-7	
Hexachloro-1,3-butadiene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	87-68-3	
Hexachlorobenzene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	118-74-1	
Hexachlorocyclopentadiene	**<405**	ug/kg	405	405	1	05/29/19 09:29	06/02/19 19:03	77-47-4	
Hexachloroethane	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	67-72-1	
Isophorone	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	78-59-1	
2-Methylphenol(o-Cresol)	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<202**	ug/kg	809	202	1	05/29/19 09:29	06/02/19 19:03		
2-Nitroaniline	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-74-4	
3-Nitroaniline	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	99-09-2	
4-Nitroaniline	**<203**	ug/kg	405	203	1	05/29/19 09:29	06/02/19 19:03	100-01-6	
Nitrobenzene	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	98-95-3	
2-Nitrophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-75-5	
4-Nitrophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	100-02-7	
N-Nitroso-di-n-propylamine	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	621-64-7	
N-Nitrosodiphenylamine	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	86-30-6	
Pentachlorophenol	**<981**	ug/kg	1960	981	1	05/29/19 09:29	06/02/19 19:03	87-86-5	
Phenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	108-95-2	
2,4,5-Trichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	95-95-4	
2,4,6-Trichlorophenol	**<202**	ug/kg	405	202	1	05/29/19 09:29	06/02/19 19:03	88-06-2	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225466

Sample: SP-5 (6-8) **Lab ID: 50225466018** Collected: 05/16/19 11:37 Received: 05/17/19 18:01 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Soil	Analytical Method: EPA 8270 Preparation Method: EPA 3546 Initial Volume/Weight: 30.2 g Final Volume/Weight: 1 mL								
Surrogates									
Nitrobenzene-d5 (S)	72	%.	18-98		1	05/29/19 09:29	06/02/19 19:03	4165-60-0	
Phenol-d5 (S)	86	%.	18-108		1	05/29/19 09:29	06/02/19 19:03	4165-62-2	
2-Fluorophenol (S)	72	%.	16-104		1	05/29/19 09:29	06/02/19 19:03	367-12-4	
2,4,6-Tribromophenol (S)	71	%.	10-114		1	05/29/19 09:29	06/02/19 19:03	118-79-6	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**19.0**	%	0.10	0.10	1		05/28/19 12:42		

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 503160 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

METHOD BLANK: 2321759 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.091	0.19	0.091	05/30/19 20:12	

LABORATORY CONTROL SAMPLE: 2321760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.49	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321761 2321762

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.59	0.54	0.55	1.6	0.96	184	67	75-125	49	20	1d,M0

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502188 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

METHOD BLANK: 2317323 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466007, 50225466008, 50225466012, 50225466013, 50225466014, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.24	1.0	0.24	05/28/19 16:42	
Arsenic	mg/kg	<0.14	1.0	0.14	05/28/19 16:42	
Barium	mg/kg	<0.030	1.0	0.030	05/28/19 16:42	
Beryllium	mg/kg	<0.020	0.50	0.020	05/28/19 16:42	
Cadmium	mg/kg	<0.020	0.50	0.020	05/28/19 16:42	
Chromium	mg/kg	<0.29	1.0	0.29	05/28/19 16:42	
Copper	mg/kg	0.18J	1.0	0.11	05/28/19 16:42	
Lead	mg/kg	<0.15	1.0	0.15	05/28/19 16:42	
Nickel	mg/kg	<0.11	1.0	0.11	05/28/19 16:42	
Selenium	mg/kg	<0.37	1.0	0.37	05/28/19 16:42	
Silver	mg/kg	<0.28	0.50	0.28	05/28/19 16:42	
Thallium	mg/kg	<0.24	1.0	0.24	05/28/19 16:42	
Zinc	mg/kg	<0.35	1.0	0.35	05/28/19 16:42	

LABORATORY CONTROL SAMPLE: 2317324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	49.9	100	80-120	
Arsenic	mg/kg	50	48.2	96	80-120	
Barium	mg/kg	50	51.2	102	80-120	
Beryllium	mg/kg	50	49.6	99	80-120	
Cadmium	mg/kg	50	48.7	97	80-120	
Chromium	mg/kg	50	49.1	98	80-120	
Copper	mg/kg	50	49.3	99	80-120	
Lead	mg/kg	50	46.9	94	80-120	
Nickel	mg/kg	50	48.5	97	80-120	
Selenium	mg/kg	50	49.1	98	80-120	
Silver	mg/kg	25	24.9	100	80-120	
Thallium	mg/kg	50	47.5	95	80-120	
Zinc	mg/kg	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317325 2317326

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	<0.26	51.9	58.9	17.1	22.6	33	38	75-125	28	20	2d,M3
Arsenic	mg/kg	6.3	51.9	58.9	50.6	59.2	85	90	75-125	16	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317325 2317326

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/kg	301	51.9	58.9	408	345	206	74	75-125	17	20	P6
Beryllium	mg/kg	0.51J	51.9	58.9	44.9	52.1	86	88	75-125	15	20	
Cadmium	mg/kg	0.34J	51.9	58.9	45.9	54.2	88	92	75-125	17	20	
Chromium	mg/kg	13.3	51.9	58.9	59.9	65.7	90	89	75-125	9	20	
Copper	mg/kg	17.6	51.9	58.9	67.1	74.1	95	96	75-125	10	20	
Lead	mg/kg	96.5	51.9	58.9	150	162	102	111	75-125	8	20	
Nickel	mg/kg	13.2	51.9	58.9	54.3	60.9	79	81	75-125	12	20	
Selenium	mg/kg	<0.40	51.9	58.9	44.4	52.9	85	89	75-125	18	20	
Silver	mg/kg	<0.30	25.9	29.5	24.2	28.9	93	97	75-125	17	20	
Thallium	mg/kg	0.83J	51.9	58.9	37.7	42.6	71	71	75-125	12	20	M3
Zinc	mg/kg	97.4	51.9	58.9	142	159	87	104	75-125	11	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502966 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

METHOD BLANK: 2320950 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<1.0	5.0	1.0	05/30/19 15:26	
2-Methylnaphthalene	ug/kg	<1.0	5.0	1.0	05/30/19 15:26	
Acenaphthene	ug/kg	<1.2	5.0	1.2	05/30/19 15:26	
Acenaphthylene	ug/kg	<1.5	5.0	1.5	05/30/19 15:26	
Anthracene	ug/kg	<1.4	5.0	1.4	05/30/19 15:26	
Benzo(a)anthracene	ug/kg	<1.5	5.0	1.5	05/30/19 15:26	
Benzo(a)pyrene	ug/kg	<1.8	5.0	1.8	05/30/19 15:26	
Benzo(b)fluoranthene	ug/kg	<2.0	5.0	2.0	05/30/19 15:26	
Benzo(g,h,i)perylene	ug/kg	<2.1	5.0	2.1	05/30/19 15:26	
Benzo(k)fluoranthene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Chrysene	ug/kg	<1.7	5.0	1.7	05/30/19 15:26	
Dibenz(a,h)anthracene	ug/kg	<2.1	5.0	2.1	05/30/19 15:26	
Fluoranthene	ug/kg	<2.6	5.0	2.6	05/30/19 15:26	
Fluorene	ug/kg	<1.2	5.0	1.2	05/30/19 15:26	
Indeno(1,2,3-cd)pyrene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Naphthalene	ug/kg	<0.99	5.0	0.99	05/30/19 15:26	
Phenanthrene	ug/kg	<1.9	5.0	1.9	05/30/19 15:26	
Pyrene	ug/kg	<2.0	5.0	2.0	05/30/19 15:26	
2-Fluorobiphenyl (S)	%.	62	23-107		05/30/19 15:26	
p-Terphenyl-d14 (S)	%.	89	16-117		05/30/19 15:26	

LABORATORY CONTROL SAMPLE: 2320951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	215	64	44-111	
2-Methylnaphthalene	ug/kg	333	218	66	45-111	
Acenaphthene	ug/kg	333	211	63	48-109	
Acenaphthylene	ug/kg	333	211	63	49-108	
Anthracene	ug/kg	333	244	73	44-104	
Benzo(a)anthracene	ug/kg	333	242	73	46-122	
Benzo(a)pyrene	ug/kg	333	193	58	31-156	
Benzo(b)fluoranthene	ug/kg	333	218	65	29-158	
Benzo(g,h,i)perylene	ug/kg	333	203	61	35-145	
Benzo(k)fluoranthene	ug/kg	333	191	57	33-150	
Chrysene	ug/kg	333	277	83	47-120	
Dibenz(a,h)anthracene	ug/kg	333	197	59	28-160	
Fluoranthene	ug/kg	333	236	71	49-121	
Fluorene	ug/kg	333	211	63	47-116	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

LABORATORY CONTROL SAMPLE: 2320951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	200	60	31-155	
Naphthalene	ug/kg	333	210	63	47-103	
Phenanthrene	ug/kg	333	243	73	50-114	
Pyrene	ug/kg	333	277	83	49-114	
2-Fluorobiphenyl (S)	%.			57	23-107	
p-Terphenyl-d14 (S)	%.			82	16-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2320952 2320953

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<12.1	396	397	277	291	70	73	10-145	5	20	
2-Methylnaphthalene	ug/kg	<12.4	396	397	280	291	71	73	10-135	4	20	
Acenaphthene	ug/kg	<14.8	396	397	272	291	69	73	10-138	7	20	
Acenaphthylene	ug/kg	23.9J	396	397	282	300	65	70	11-133	6	20	
Anthracene	ug/kg	59.3	396	397	349	363	73	76	10-131	4	20	
Benzo(a)anthracene	ug/kg	380	396	397	810	835	108	114	10-158	3	20	
Benzo(a)pyrene	ug/kg	400	396	397	786	907	98	128	10-174	14	20	
Benzo(b)fluoranthene	ug/kg	441	396	397	865	947	107	127	10-184	9	20	
Benzo(g,h,i)perylene	ug/kg	406	396	397	729	784	81	95	10-170	7	20	
Benzo(k)fluoranthene	ug/kg	346	396	397	708	757	91	103	10-183	7	20	
Chrysene	ug/kg	488	396	397	979	1010	124	131	10-147	3	20	
Dibenz(a,h)anthracene	ug/kg	107	396	397	351	369	62	66	10-166	5	20	
Fluoranthene	ug/kg	724	396	397	1270	1200	138	121	10-158	5	20	
Fluorene	ug/kg	<14.8	396	397	268	284	68	71	10-142	6	20	
Indeno(1,2,3-cd)pyrene	ug/kg	337	396	397	667	723	83	97	11-167	8	20	
Naphthalene	ug/kg	<11.8	396	397	284	294	72	74	13-128	3	20	ED
Phenanthrene	ug/kg	196	396	397	549	509	89	79	10-164	8	20	
Pyrene	ug/kg	786	396	397	1410	1320	157	133	10-152	7	20	M6
2-Fluorobiphenyl (S)	%.						61	64	23-107			
p-Terphenyl-d14 (S)	%.						78	80	16-117			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502967 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV Microwave Scan Spike
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

METHOD BLANK: 2320954 Matrix: Solid
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4,6-Trichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dichlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dimethylphenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4-Dinitrophenol	ug/kg	<795	1590	795	05/30/19 20:22	
2,4-Dinitrotoluene	ug/kg	<164	328	164	05/30/19 20:22	
2,6-Dinitrotoluene	ug/kg	<164	328	164	05/30/19 20:22	
2-Chloronaphthalene	ug/kg	<164	328	164	05/30/19 20:22	
2-Chlorophenol	ug/kg	<164	328	164	05/30/19 20:22	
2-Methylphenol(o-Cresol)	ug/kg	<164	328	164	05/30/19 20:22	
2-Nitroaniline	ug/kg	<164	328	164	05/30/19 20:22	
2-Nitrophenol	ug/kg	<164	328	164	05/30/19 20:22	
3&4-Methylphenol(m&p Cresol)	ug/kg	<164	656	164	05/30/19 20:22	
3,3'-Dichlorobenzidine	ug/kg	<328	656	328	05/30/19 20:22	
3-Nitroaniline	ug/kg	<164	328	164	05/30/19 20:22	
4,6-Dinitro-2-methylphenol	ug/kg	<328	656	328	05/30/19 20:22	
4-Bromophenylphenyl ether	ug/kg	<164	328	164	05/30/19 20:22	
4-Chloro-3-methylphenol	ug/kg	<164	656	164	05/30/19 20:22	
4-Chloroaniline	ug/kg	<164	656	164	05/30/19 20:22	
4-Chlorophenylphenyl ether	ug/kg	<164	328	164	05/30/19 20:22	
4-Nitroaniline	ug/kg	<165	328	165	05/30/19 20:22	
4-Nitrophenol	ug/kg	<795	1590	795	05/30/19 20:22	
Benzyl alcohol	ug/kg	<164	656	164	05/30/19 20:22	
bis(2-Chloroethoxy)methane	ug/kg	<164	328	164	05/30/19 20:22	
bis(2-Chloroethyl) ether	ug/kg	<164	328	164	05/30/19 20:22	
bis(2-Ethylhexyl)phthalate	ug/kg	<164	328	164	05/30/19 20:22	
bis(2chloro1methylethyl) ether	ug/kg	<164	328	164	05/30/19 20:22	
Butylbenzylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Di-n-butylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Di-n-octylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Dibenzofuran	ug/kg	<164	328	164	05/30/19 20:22	
Diethylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Dimethylphthalate	ug/kg	<164	328	164	05/30/19 20:22	
Hexachloro-1,3-butadiene	ug/kg	<164	328	164	05/30/19 20:22	
Hexachlorobenzene	ug/kg	<164	328	164	05/30/19 20:22	
Hexachlorocyclopentadiene	ug/kg	<328	328	328	05/30/19 20:22	
Hexachloroethane	ug/kg	<164	328	164	05/30/19 20:22	
Isophorone	ug/kg	<164	328	164	05/30/19 20:22	
N-Nitroso-di-n-propylamine	ug/kg	<164	328	164	05/30/19 20:22	
N-Nitrosodiphenylamine	ug/kg	<164	328	164	05/30/19 20:22	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

METHOD BLANK: 2320954 Matrix: Solid

Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005, 50225466006, 50225466009, 50225466010, 50225466011, 50225466015, 50225466016, 50225466017, 50225466018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrobenzene	ug/kg	<164	328	164	05/30/19 20:22	
Pentachlorophenol	ug/kg	<795	1590	795	05/30/19 20:22	
Phenol	ug/kg	<164	328	164	05/30/19 20:22	
2,4,6-Tribromophenol (S)	%.	69	10-114		05/30/19 20:22	
2-Fluorophenol (S)	%.	85	16-104		05/30/19 20:22	
Nitrobenzene-d5 (S)	%.	61	18-98		05/30/19 20:22	
Phenol-d5 (S)	%.	64	18-108		05/30/19 20:22	

LABORATORY CONTROL SAMPLE: 2320955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	2190	66	32-115	
2-Chlorophenol	ug/kg	3330	2130	64	47-102	
4-Chloro-3-methylphenol	ug/kg	3330	2000	60	46-112	
4-Nitrophenol	ug/kg	3330	2170	65	28-123	
N-Nitroso-di-n-propylamine	ug/kg	3330	2000	60	40-103	
Pentachlorophenol	ug/kg	3330	2170	65	27-124	
Phenol	ug/kg	3330	2220	67	40-104	
2,4,6-Tribromophenol (S)	%.			65	10-114	
2-Fluorophenol (S)	%.			65	16-104	
Nitrobenzene-d5 (S)	%.			58	18-98	
Phenol-d5 (S)	%.			64	18-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2320956 2320957

Parameter	Units	50225466005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	<195	3960	3970	2840	2960	72	75	10-125	4	20	
2-Chlorophenol	ug/kg	<195	3960	3970	2660	2720	67	68	14-115	2	20	
4-Chloro-3-methylphenol	ug/kg	<195	3960	3970	3090	3300	78	83	14-127	7	20	
4-Nitrophenol	ug/kg	<945	3960	3970	3000	3080	76	77	10-137	2	20	
N-Nitroso-di-n-propylamine	ug/kg	<195	3960	3970	3200	3260	81	82	24-108	2	20	
Pentachlorophenol	ug/kg	<945	3960	3970	2370	2550	60	64	10-139	7	20	
Phenol	ug/kg	<195	3960	3970	2930	2900	74	73	10-117	1	20	
2,4,6-Tribromophenol (S)	%.						61	62	10-114			
2-Fluorophenol (S)	%.						63	64	16-104			
Nitrobenzene-d5 (S)	%.						68	71	18-98			
Phenol-d5 (S)	%.						73	74	18-108			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502826 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50225466001, 50225466002, 50225466003, 50225466004, 50225466005

SAMPLE DUPLICATE: 2320587

Parameter	Units	50225398001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.0	9.5	5	5	

SAMPLE DUPLICATE: 2320588

Parameter	Units	50225466005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.5	2	5	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225466

QC Batch: 502836 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50225466006, 50225466007, 50225466008, 50225466009, 50225466010, 50225466011, 50225466012, 50225466013, 50225466014, 50225466015, 50225466016, 50225466017, 50225466018

SAMPLE DUPLICATE: 2320625

Parameter	Units	50225404004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	18.2	3	5	

SAMPLE DUPLICATE: 2320626

Parameter	Units	50225466016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.6	32.0	2	5	

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REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 216 College / 19-146
Pace Project No.: 50225466

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

1d	RPD is outside control limits due to sample non-homogeneity
2d	RPD is outside control limits due to sample non-homogeneity KJE 5/28/19
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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METHOD CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B
7471 Mercury	Solid	SW-846 7471A	SW-846 7471A
8270 PAH Combo Soil	Solid	SW-846 8270C	SW-846 3546
8270 SVOC Combo Soil	Solid	SW-846 8270C	SW-846 3546

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225466001	**SP-1 (3-5)**	EPA 3050	502188	EPA 6010	502901
50225466002	**SP-1 (5-7)**	EPA 3050	502188	EPA 6010	502901
50225466003	**SP-2 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466004	**SP-2 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466005	**SP-3 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466006	**SP-3 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466007	**SP-4 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466008	**SP-4 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466012	**SP-5 (0-2)**	EPA 3050	502188	EPA 6010	502901
50225466013	**SP-5 (0-2) DUP**	EPA 3050	502188	EPA 6010	502901
50225466014	**SP-5 (2-4)**	EPA 3050	502188	EPA 6010	502901
50225466018	**SP-5 (6-8)**	EPA 3050	502188	EPA 6010	502901
50225466001	**SP-1 (3-5)**	EPA 7471	503160	EPA 7471	503520
50225466002	**SP-1 (5-7)**	EPA 7471	503160	EPA 7471	503520
50225466003	**SP-2 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466004	**SP-2 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466005	**SP-3 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466006	**SP-3 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466007	**SP-4 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466008	**SP-4 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466012	**SP-5 (0-2)**	EPA 7471	503160	EPA 7471	503520
50225466013	**SP-5 (0-2) DUP**	EPA 7471	503160	EPA 7471	503520
50225466014	**SP-5 (2-4)**	EPA 7471	503160	EPA 7471	503520
50225466018	**SP-5 (6-8)**	EPA 7471	503160	EPA 7471	503520
50225466001	**SP-1 (3-5)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466002	**SP-1 (5-7)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466003	**SP-2 (0-2)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466004	**SP-2 (2-4)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466005	**SP-3 (0-2)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466006	**SP-3 (2-4)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466009	**SP-4 (6-8)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466010	**SP-4 (8-9)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466011	**SP-4 (9-10.5)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466015	**SP-5 (9-11)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466016	**SP-5 (11-13)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466017	**SP-5 (11-13) DUP**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466018	**SP-5 (6-8)**	EPA 3546	502966	EPA 8270 by SIM	503443
50225466001	**SP-1 (3-5)**	EPA 3546	502967	EPA 8270	503444
50225466002	**SP-1 (5-7)**	EPA 3546	502967	EPA 8270	503444
50225466003	**SP-2 (0-2)**	EPA 3546	502967	EPA 8270	503444
50225466004	**SP-2 (2-4)**	EPA 3546	502967	EPA 8270	503444
50225466005	**SP-3 (0-2)**	EPA 3546	502967	EPA 8270	503444
50225466006	**SP-3 (2-4)**	EPA 3546	502967	EPA 8270	503444
50225466009	**SP-4 (6-8)**	EPA 3546	502967	EPA 8270	503444
50225466010	**SP-4 (8-9)**	EPA 3546	502967	EPA 8270	503444
50225466011	**SP-4 (9-10.5)**	EPA 3546	502967	EPA 8270	503444
50225466015	**SP-5 (9-11)**	EPA 3546	502967	EPA 8270	503444

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225466016	**SP-5 (11-13)**	EPA 3546	502967	EPA 8270	503444
50225466017	**SP-5 (11-13) DUP**	EPA 3546	502967	EPA 8270	503444
50225466018	**SP-5 (6-8)**	EPA 3546	502967	EPA 8270	503444
50225466001	**SP-1 (3-5)**	SM 2540G	502826		
50225466002	**SP-1 (5-7)**	SM 2540G	502826		
50225466003	**SP-2 (0-2)**	SM 2540G	502826		
50225466004	**SP-2 (2-4)**	SM 2540G	502826		
50225466005	**SP-3 (0-2)**	SM 2540G	502826		
50225466006	**SP-3 (2-4)**	SM 2540G	502836		
50225466007	**SP-4 (0-2)**	SM 2540G	502836		
50225466008	**SP-4 (2-4)**	SM 2540G	502836		
50225466009	**SP-4 (6-8)**	SM 2540G	502836		
50225466010	**SP-4 (8-9)**	SM 2540G	502836		
50225466011	**SP-4 (9-10.5)**	SM 2540G	502836		
50225466012	**SP-5 (0-2)**	SM 2540G	502836		
50225466013	**SP-5 (0-2) DUP**	SM 2540G	502836		
50225466014	**SP-5 (2-4)**	SM 2540G	502836		
50225466015	**SP-5 (9-11)**	SM 2540G	502836		
50225466016	**SP-5 (11-13)**	SM 2540G	502836		
50225466017	**SP-5 (11-13) DUP**	SM 2540G	502836		
50225466018	**SP-5 (6-8)**	SM 2540G	502836		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2276474

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BCA	Report To: JTEUSCHLER	Attention: SAME
Address:	Copy To: LMinniehs	Company Name:
		Address:
Email To: JTEUSCHLER	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: 216 College	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: 19-146	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: SVOCs + 5 IM	14 Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 50225466
1	SP-1 (3-5)					5-16-19	1240		1	1									/	/		001
2	SP-1 (5-7)						1245		1	1									/	/		002
3	SP-2 (0-2)						1000		1	1									/	/		003
4	SP-2 (2-4)						1005		1	1									/	/		004
5	SP-3 (0-2)						1025		3	3									/	/		MS/MSD 005
6	SP-3 (2-4)						1030		1	1									/	/		006
7	SP-4 (0-2)						1215		1	1									/	/		007
8	SP-4 (2-4)						1220		1	1									/	/		008
9	SP-4 (6-8)						1200		1	1									/			009
10	SP-4 (8-9)						1205		1	1									/			016
11	SP-4 (9-10.5)						1210		1	1									/			011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Rod Manny/BCA	5.17.19	1801		5/17/19	1801	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rod Manny

SIGNATURE of SAMPLER: Rod Manny DATE Signed (MM/DD/YY): 05/17/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2276473

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BCA	Report To: SAME	Attention: SAME
Address:	Copy To:	Company Name:
		Address:
Email To: JTEUSCHER	Purchase Order No.:	Pace Quote Reference:
Phone: / Fax:	Project Name: 216 College	Pace Project Manager:
Requested Due Date/TAT: STD	Project Number: 19-146	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: SVOCs + SIM	14 metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-5(0-2)					5/16/19	1140		1	1								Y	Y		50225466 012
2	SP-5(0-2) DUP						1146		1	1								Y	Y		013
3	SP-5(2-4)						1145		1	1								Y	Y		014
4	SP-5(9-11)						1130		1	1								Y			015
5	SP-5(11-13)						1135		1	1								Y			016
6	SP-5(11-13) DUP						1135		1	1								Y			017
7	SP-5(6-8)						1137		1	1								Y	Y		018
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Rod Manny/BCA	5.17.19	1801		5/17/19	1801	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rod Manny

SIGNATURE of SAMPLER: Rod Manny

DATE Signed (MM/DD/YY): 05/17/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50225466

Date/Time and Initials of person examining contents: LWG 5/17/19 1820

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☒ Yes ☐ No ☐ N/A

Cooler Temperature: 1.5 / 1.5 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			✓
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:			✓
Short Hold Time Analysis (<72hr)?: Analysis:		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested:		✓	Headspace in VOA Vials (>6mm):			✓
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	

Comments:

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 2

COC ID# 2276474

Project # 50225466

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS Bulk R	DI Kit	Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1																				SL			
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

3 5/20/19 MM3

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

Sample Container Count

WO# : 50225466

50225466

CLIENT: BCA

COC PAGE 1 of 1

COC ID# 2276473

Project # 50225466

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk Kit R	Matrix SI/W (Soil/Water) Aqueous Li	pH <2	pH >9	pH>12
1							1											SL			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

MSSV FULL SCAN - FORM II SVOA-1
SOLID SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Instrument ID: 50MSS9

LAB SAMPLE ID	SAMPLE NAME	24B6	2FPH	NIT5	PHD5
2320956	2320956MS	61	63	68	73
2320957	2320957MSD	62	64	71	74
50225466001	SP-1 (3-5)	57	67	90	85
50225466002	SP-1 (5-7)	38	50	52	57
50225466003	SP-2 (0-2)	69	69	73	78
50225466004	SP-2 (2-4)	25	49	71	73
50225466005	SP-3 (0-2)	63	64	72	78
50225466006	SP-3 (2-4)	63	67	78	76
50225466009	SP-4 (6-8)	69	64	76	70
50225466010	SP-4 (8-9)	67	70	70	76
50225466011	SP-4 (9-10.5)	63	68	76	75
50225466015	SP-5 (9-11)	68	69	70	76
50225466016	SP-5 (11-13)	68	67	63	77
50225466017	SP-5 (11-13) DUP	66	71	63	80
50225466018	SP-5 (6-8)	71	72	72	86

	QC LIMITS
(24B6) = 2,4,6-Tribromophenol (S)	(10-114)
(2FPH) = 2-Fluorophenol (S)	(16-104)
(NIT5) = Nitrobenzene-d5 (S)	(18-98)
(PHD5) = Phenol-d5 (S)	(18-108)

* Values outside of QC Limits

MSSV FULL SCAN - FORM II SVOA-1
SOLID SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Instrument ID: 50MSS8

LAB SAMPLE ID	SAMPLE NAME	24B6	2FPH	NIT5	PHD5
2320954	2320954BLANK	69	85	61	64
2320955	2320955LCS	65	65	58	64

	QC LIMITS
(24B6) = 2,4,6-Tribromophenol (S)	(10-114)
(2FPH) = 2-Fluorophenol (S)	(16-104)
(NIT5) = Nitrobenzene-d5 (S)	(18-98)
(PHD5) = Phenol-d5 (S)	(18-108)

* Values outside of QC Limits

MSSV FULL SCAN - FORM III SVOA-1
SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 2320955LCS
Date Extracted: 05/29/2019
Date Analyzed (1): 05/30/2019
Instrument: 50MSS8
LCS Lot No: 194954
Lab File ID: 053019.B\2320955.D
SDG No.: 50225466

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
4-Chloro-3-methylphenol	3330	2000	60	46-112
2-Chlorophenol	3330	2130	64	47-102
2,4-Dinitrotoluene	3330	2190	66	32-115
4-Nitrophenol	3330	2170	65	28-123
N-Nitroso-di-n-propylamine	3330	2000	60	40-103
Pentachlorophenol	3330	2170	65	27-124
Phenol	3330	2220	67	40-104

Spike Recovery: 0 out of 7 outside limits.

MSSV FULL SCAN - FORM III SVOA-1

SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 2320956MS

Date Extracted: 05/29/2019

Date Analyzed (1): 06/02/2019

Instrument: 50MSS9

Lab File ID: 060219A.B\2320956.D

Parent Sample ID: SP-3 (0-2)

SDG No.: 50225466

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
2,4-Dinitrotoluene	3960	<195	2840	72	10-125
2-Chlorophenol	3960	<195	2660	67	14-115
4-Chloro-3-methylphenol	3960	<195	3090	78	14-127
4-Nitrophenol	3960	<945	3000	76	10-137
N-Nitroso-di-n-propylamine	3960	<195	3200	81	24-108
Pentachlorophenol	3960	<945	2370	60	10-139
Phenol	3960	<195	2930	74	10-117

Spike Recovery: 0 out of 7 outside limits.

MSSV FULL SCAN - FORM III SVOA-2

SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSS9 Matrix Spike Duplicate - Sample No: 2320957MSD

Lab File ID (2): 060219A.B\2320957.D Date Analyzed (2): 06/02/2019

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
2,4-Dinitrotoluene	3970	2960	75	4	0-20	10-125
2-Chlorophenol	3970	2720	68	2	0-20	14-115
4-Chloro-3-methylphenol	3970	3300	83	7	0-20	14-127
4-Nitrophenol	3970	3080	77	2	0-20	10-137
N-Nitroso-di-n-propylamine	3970	3260	82	2	0-20	24-108
Pentachlorophenol	3970	2550	64	7	0-20	10-139
Phenol	3970	2900	73	1	0-20	10-117

RPD: 0 out of 7 outside limits.

Spike Recovery: 0 out of 7 outside limits.

SAMPLE NO.

2320954BLANK

MSSV FULL SCAN - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Instrument ID: 50MSS8 Matrix: Solid Lab Sample ID: 2320954

Lab File ID: 053019.B\2320954.D Date Analyzed: 05/30/2019 Time: 20:22

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
2320955LCS	2320955	053019.B\2320955.D	05/30/2019 20:38
SP-1 (3-5)	50225466001	060219A.B\50225466001.D	06/02/2019 15:20
SP-1 (5-7)	50225466002	060219A.B\50225466002.D	06/02/2019 15:36
SP-2 (0-2)	50225466003	060219A.B\50225466003.D	06/02/2019 15:52
SP-2 (2-4)	50225466004	060219A.B\50225466004.D	06/02/2019 16:08
SP-3 (0-2)	50225466005	060219A.B\50225466005.D	06/02/2019 16:24
2320956MS	2320956	060219A.B\2320956.D	06/02/2019 16:40
2320957MSD	2320957	060219A.B\2320957.D	06/02/2019 16:56
SP-3 (2-4)	50225466006	060219A.B\50225466006.D	06/02/2019 17:12
SP-4 (6-8)	50225466009	060219A.B\50225466009.D	06/02/2019 17:28
SP-4 (8-9)	50225466010	060219A.B\50225466010.D	06/02/2019 17:44
SP-4 (9-10.5)	50225466011	060219A.B\50225466011.D	06/02/2019 18:00
SP-5 (9-11)	50225466015	060219A.B\50225466015.D	06/02/2019 18:16
SP-5 (11-13)	50225466016	060219A.B\50225466016.D	06/02/2019 18:31
SP-5 (11-13) DUP	50225466017	060219A.B\50225466017.D	06/02/2019 18:47
SP-5 (6-8)	50225466018	060219A.B\50225466018.D	06/02/2019 19:03

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146
Lab File ID: 050119CALN.B\DFTPP.D DFTPP Injection Date 05/01/2019
Instrument ID: 50MSS8 DFTPP Injection Time 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	33.75	
68	Less than 2.00% of mass 69	0.00	(0.00)[1]
69	Mass 69 relative abundance	33.98	
70	Less than 2.00% of mass 69	0.12	(0.34)[1]
127	40.00 - 60.00% of mass 198	41.16	
197	Less than 1.00% of mass 198	0.15	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	6.77	
275	10.00 - 30.00% of mass 198	27.22	
365	Greater than 1.00% of mass 198	3.32	
441	Present, but less than mass 443	16.63	
442	Greater than 40.00% of mass 198	106.57	
443	17.00 - 23.00% of mass 442	20.29	(19.04)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
14987647CAL4	14987647CAL4	050119CALN.B\CAL4.D	05/01/2019	09:13
14987644CAL1	14987644CAL1	050119CALN.B\CAL1.D	05/01/2019	09:30
14987645CAL2	14987645CAL2	050119CALN.B\CAL2.D	05/01/2019	09:46
14987646CAL3	14987646CAL3	050119CALN.B\CAL3.D	05/01/2019	10:02
14987648CAL5	14987648CAL5	050119CALN.B\CAL5.D	05/01/2019	10:19
14987649CAL6	14987649CAL6	050119CALN.B\CAL6.D	05/01/2019	10:35
14987650CAL7	14987650CAL7	050119CALN.B\CAL7.D	05/01/2019	10:51
14987652ICV	14987652ICV	050119CALN.B\ICV.D	05/01/2019	11:08

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146
Lab File ID: 053019.B\DFTPP.D DFTPP Injection Date: 05/30/2019
Instrument ID: 50MSS8 DFTPP Injection Time: 11:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	31.62	
68	Less than 2.00% of mass 69	0.35	(1.02)[1]
69	Mass 69 relative abundance	34.33	
70	Less than 2.00% of mass 69	0.52	(1.51)[1]
127	40.00 - 60.00% of mass 198	40.95	
197	Less than 1.00% of mass 198	0.00	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	6.53	
275	10.00 - 30.00% of mass 198	27.67	
365	Greater than 1.00% of mass 198	3.49	
441	Present, but less than mass 443	18.66	
442	Greater than 40.00% of mass 198	116.47	
443	17.00 - 23.00% of mass 442	21.79	(18.71)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15262842CCV	15262842CCV	053019.B\CCV050.D	05/30/2019	11:51
2320954BLANK	2320954BLANK	053019.B\2320954.D	05/30/2019	20:22
2320955LCS	2320955LCS	053019.B\2320955.D	05/30/2019	20:38

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146
Lab File ID: 051619ICAL.B\DFTPP1.D DFTPP Injection Date: 05/16/2019
Instrument ID: 50MSS9 DFTPP Injection Time: 08:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	45.83	
68	Less than 2.00% of mass 69	0.55	(1.53)[1]
69	Mass 69 relative abundance	35.84	
70	Less than 2.00% of mass 69	0.47	(1.31)[1]
127	40.00 - 60.00% of mass 198	42.76	
197	Less than 1.00% of mass 198	0.54	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	7.33	
275	10.00 - 30.00% of mass 198	23.85	
365	Greater than 1.00% of mass 198	3.00	
441	Present, but less than mass 443	18.67	
442	Greater than 40.00% of mass 198	120.35	
443	17.00 - 23.00% of mass 442	22.46	(18.67)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15078070CAL4	15078070CAL4	051619ICAL.B\CAL4.D	05/16/2019	08:44
15078067CAL1	15078067CAL1	051619ICAL.B\CAL1.D	05/16/2019	09:23
15078068CAL2	15078068CAL2	051619ICAL.B\CAL2.D	05/16/2019	09:38
15078069CAL3	15078069CAL3	051619ICAL.B\CAL3.D	05/16/2019	09:54
15078071CAL5	15078071CAL5	051619ICAL.B\CAL5.D	05/16/2019	10:10
15078072CAL6	15078072CAL6	051619ICAL.B\CAL6.D	05/16/2019	10:26
15078073CAL7	15078073CAL7	051619ICAL.B\CAL7.D	05/16/2019	10:42
15078075ICV	15078075ICV	051619ICAL.B\ICV.D	05/16/2019	10:58

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146
Lab File ID: 060219A.B\DFTPP.D DFTPP Injection Date: 06/02/2019
Instrument ID: 50MSS9 DFTPP Injection Time: 11:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	53.26	
68	Less than 2.00% of mass 69	0.00	(0.00)[1]
69	Mass 69 relative abundance	40.01	
70	Less than 2.00% of mass 69	0.00	(0.00)[1]
127	40.00 - 60.00% of mass 198	40.69	
197	Less than 1.00% of mass 198	0.56	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	6.30	
275	10.00 - 30.00% of mass 198	23.40	
365	Greater than 1.00% of mass 198	3.07	
441	Present, but less than mass 443	16.88	
442	Greater than 40.00% of mass 198	95.79	
443	17.00 - 23.00% of mass 442	17.63	(18.41)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15253810CCV	15253810CCV	060219A.B\CCV050.D	06/02/2019	11:33
SP-1 (3-5)	50225466001	060219A.B\50225466001.D	06/02/2019	15:20
SP-1 (5-7)	50225466002	060219A.B\50225466002.D	06/02/2019	15:36
SP-2 (0-2)	50225466003	060219A.B\50225466003.D	06/02/2019	15:52
SP-2 (2-4)	50225466004	060219A.B\50225466004.D	06/02/2019	16:08
SP-3 (0-2)	50225466005	060219A.B\50225466005.D	06/02/2019	16:24
2320956MS	2320956MS	060219A.B\2320956.D	06/02/2019	16:40
2320957MSD	2320957MSD	060219A.B\2320957.D	06/02/2019	16:56
SP-3 (2-4)	50225466006	060219A.B\50225466006.D	06/02/2019	17:12
SP-4 (6-8)	50225466009	060219A.B\50225466009.D	06/02/2019	17:28
SP-4 (8-9)	50225466010	060219A.B\50225466010.D	06/02/2019	17:44
SP-4 (9-10.5)	50225466011	060219A.B\50225466011.D	06/02/2019	18:00
SP-5 (9-11)	50225466015	060219A.B\50225466015.D	06/02/2019	18:16
SP-5 (11-13)	50225466016	060219A.B\50225466016.D	06/02/2019	18:31
SP-5 (11-13) DUP	50225466017	060219A.B\50225466017.D	06/02/2019	18:47
SP-5 (6-8)	50225466018	060219A.B\50225466018.D	06/02/2019	19:03

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15262842CCV Date Analyzed: 05/30/2019

Instrument ID: 50MSS8 GC Column: Col 1 Time Analyzed: 11:51

Lab File ID: 053019.B\CCV050.D

		AREA ANT	RT	AREA CRY	RT	AREA DCB	RT	AREA NPT	RT
12 HOUR STD		817601	4.921	1913419	8.44	235372	2.118	1347595	3.334
UPPER LIMIT		1635202	5.421	3826838	8.94	470744	2.618	2695190	3.834
LOWER LIMIT		408800.5	4.421	956709.5	7.94	117686	1.618	673797.5	2.834
LAB SAMPLE ID	SAMPLE NO.								
2320954	2320954BLANK	837346	4.921	1928427	8.44	280063	2.124	927414	3.34
2320955	2320955LCS	812138	4.92	1978884	8.446	324428	2.124	1322636	3.34

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
NPT = Naphthalene-d8 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15262842CCV Date Analyzed: 05/30/2019

Instrument ID: 50MSS8 GC Column: Col 1 Time Analyzed: 11:51

Lab File ID: 053019.B\CCV050.D

		AREA PHN	RT	AREA PYL	RT
12 HOUR STD		1670583	6.172	2289184	9.815
UPPER LIMIT		3341166	6.672	4578368	10.315
LOWER LIMIT		835291.5	5.672	1144592	9.315
LAB SAMPLE ID	SAMPLE NO.				
2320954	2320954BLANK	1727028	6.172	2289390	9.821
2320955	2320955LCS	1712971	6.178	2349823	9.821

PHN = Phenanthrene-d10 (IS)
PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15253810CCV Date Analyzed: 06/02/2019

Instrument ID: 50MSS9 GC Column: Col 1 Time Analyzed: 11:33

Lab File ID: 060219A.B\CCV050.D

		AREA ANT	RT	AREA CRY	RT	AREA DCB	RT	AREA NPT	RT
12 HOUR STD		185436	4.756	651791	8.228	50868	1.9	234577	3.146
UPPER LIMIT		370872	5.256	1303582	8.728	101736	2.4	469154	3.646
LOWER LIMIT		92718	4.256	325895.5	7.728	25434	1.4	117288.5	2.646
LAB SAMPLE ID	SAMPLE NO.								
2320956	2320956MS	213088	4.756	422012	8.228	70690	1.906	324774	3.146
2320957	2320957MSD	195250	4.756	400452	8.234	66461	1.906	289025	3.146
50225466001	SP-1 (3-5)	151180	4.756	379486	8.234	48902	1.9	218414	3.14
50225466002	SP-1 (5-7)	208168	4.756	409496	8.234	55111	1.906	256052	3.146
50225466003	SP-2 (0-2)	156071	4.756	386878	8.223	54276	1.906	233895	3.146
50225466004	SP-2 (2-4)	170691	4.756	372140	8.228	56319	1.906	242530	3.146
50225466005	SP-3 (0-2)	191393	4.756	402901	8.228	62039	1.906	285972	3.146
50225466006	SP-3 (2-4)	183167	4.762	375523	8.228	67550	1.906	286225	3.146
50225466009	SP-4 (6-8)	167914	4.762	388266	8.234	59683	1.912	234790	3.152
50225466010	SP-4 (8-9)	168090	4.762	390811	8.234	55169	1.906	244343	3.146
50225466011	SP-4 (9-10.5)	156022	4.762	398655	8.234	53234	1.906	223181	3.146
50225466015	SP-5 (9-11)	174514	4.762	400885	8.234	59291	1.906	265452	3.152
50225466016	SP-5 (11-13)	182882	4.762	380040	8.234	61881	1.906	262187	3.146
50225466017	SP-5 (11-13) DUP	165038	4.762	375540	8.234	55844	1.906	247111	3.146
50225466018	SP-5 (6-8)	205936	4.762	385326	8.234	56947	1.906	273067	3.146

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
NPT = Naphthalene-d8 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15253810CCV Date Analyzed: 06/02/2019

Instrument ID: 50MSS9 GC Column: Col 1 Time Analyzed: 11:33

Lab File ID: 060219A.B\CCV050.D

		AREA PHN	RT	AREA PYL	RT
12 HOUR STD		465700	6.007	786882	9.556
UPPER LIMIT		931400	6.507	1573764	10.056
LOWER LIMIT		232850	5.507	393441	9.056
LAB SAMPLE ID	SAMPLE NO.				
2320956	2320956MS	431546	6.007	482017	9.562
2320957	2320957MSD	415468	6.008	469050	9.568
50225466001	SP-1 (3-5)	347255	6.007	455853	9.568
50225466002	SP-1 (5-7)	455909	6.007	468801	9.574
50225466003	SP-2 (0-2)	349283	6.007	449926	9.556
50225466004	SP-2 (2-4)	386760	6.007	445206	9.562
50225466005	SP-3 (0-2)	380162	6.007	449345	9.562
50225466006	SP-3 (2-4)	381259	6.013	441487	9.568
50225466009	SP-4 (6-8)	372596	6.013	449508	9.568
50225466010	SP-4 (8-9)	380505	6.013	458361	9.568
50225466011	SP-4 (9-10.5)	370910	6.013	453133	9.568
50225466015	SP-5 (9-11)	374410	6.013	462808	9.568
50225466016	SP-5 (11-13)	379312	6.013	429115	9.568
50225466017	SP-5 (11-13) DUP	370543	6.007	424776	9.568
50225466018	SP-5 (6-8)	431571	6.013	433666	9.568

PHN = Phenanthrene-d10 (IS)
PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VI SVOA-1

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS8 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/01/2019 05/01/2019 Calibration Time(s): 09:13 10:51

LAB FILE ID

CAL1 = 050119CALN.B\CAL1.D CAL2 = 050119CALN.B\CAL2.D CAL3 = 050119CALN.B\CAL3.D

CAL4 = 050119CALN.B\CAL4.D CAL5 = 050119CALN.B\CAL5.D CAL6 = 050119CALN.B\CAL6.D

CAL7 = 050119CALN.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Benzyl alcohol	Averaged	1.21163	1.00956	0.96987	0.85286	0.88024	0.88102
4-Bromophenylphenyl ether	Averaged		0.22397	0.27314	0.23803	0.24866	0.24076
Butylbenzylphthalate	Averaged	0.70590	0.48782	0.59899	0.54307	0.55174	0.53947
4-Chloro-3-methylphenol	Averaged	0.40637	0.35599	0.32926	0.30097	0.30163	0.29866
4-Chloroaniline	Averaged	0.55145	0.47366	0.48514	0.43210	0.43678	0.42489
bis(2-Chloroethoxy)methane	Averaged	0.58590	0.46425	0.45934	0.41167	0.41122	0.40026
bis(2-Chloroethyl) ether	Averaged	1.66756	1.43490	1.37554	1.19611	1.22217	1.20260
bis(2chloro1methylethyl) ether	Averaged	2.87140	2.49474	2.33519	2.00980	2.05236	2.02695
2-Chloronaphthalene	Averaged		1.26282	1.30342	1.17536	1.15818	1.13474
2-Chlorophenol	Averaged	1.83091	1.43311	1.49456	1.29789	1.33496	1.31562
4-Chlorophenylphenyl ether	Averaged		0.75066	0.83916	0.75070	0.74080	0.73350
Dibenzofuran	Averaged		1.78573	2.03591	1.80395	1.79489	1.74354
3,3'-Dichlorobenzidine	Averaged		0.49294	0.53201	0.49848	0.49457	0.46575
2,4-Dichlorophenol	Averaged	0.44907	0.32438	0.35920	0.32264	0.32445	0.31759
Diethylphthalate	Averaged	2.09311	1.49145	1.66183	1.51607	1.51508	1.50398
2,4-Dimethylphenol	Averaged		0.28950	0.34073	0.29971	0.30158	0.29289
Dimethylphthalate	Averaged		1.48979	1.60680	1.45047	1.44653	1.41328
Di-n-butylphthalate	Averaged		1.26756	1.41751	1.27886	1.32759	1.23386
4,6-Dinitro-2-methylphenol	Averaged		0.09678	0.15019	0.13627	0.14495	0.13711
2,4-Dinitrophenol	Averaged			0.23372	0.23345	0.24060	0.23831
2,4-Dinitrotoluene	Averaged	0.63249	0.45012	0.51086	0.46556	0.46074	0.45601
2,6-Dinitrotoluene	Averaged	0.45650	0.33351	0.37098	0.32990	0.33399	0.32834
Di-n-octylphthalate	Averaged	1.47009	1.19017	1.27476	1.19476	1.20176	1.20065
bis(2-Ethylhexyl)phthalate	Averaged	1.04031	0.73295	0.89268	0.82087	0.82413	0.80524
Hexachloro-1,3-butadiene	Averaged		0.22189	0.26737	0.23876	0.24175	0.23421
Hexachlorobenzene	Averaged		0.27478	0.31039	0.27586	0.28783	0.27505
Hexachlorocyclopentadiene	Quadratic	0.77157	1.20665	0.61763	0.56285	0.55844	0.54927
Hexachloroethane	Averaged	0.79686	0.62400	0.64573	0.57212	0.57828	0.56566
Isophorone	Averaged	0.90107	0.79947	0.72578	0.64542	0.64881	0.63794
2-Methylphenol(o-Cresol)	Averaged	1.62276	1.39558	1.30716	1.17055	1.19584	1.17033
3&4-Methylphenol(m&p Cresol)	Averaged	1.76829	1.44409	1.43343	1.24830	1.27230	1.25969
2-Nitroaniline	Wt Linear		0.67482	0.35305	0.31607	0.32202	0.31668
3-Nitroaniline	Averaged	0.44515	0.36888	0.37527	0.34461	0.34354	0.33851
4-Nitroaniline	Averaged	0.48501	0.41210	0.39058	0.35266	0.35865	0.34105
Nitrobenzene	Averaged	0.47574	0.43912	0.38328	0.34252	0.34643	0.33734

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-2

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS8 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/01/2019 05/01/2019 Calibration Time(s): 09:13 10:51

LAB FILE ID

CAL1 = 050119CALN.B\CAL1.D CAL2 = 050119CALN.B\CAL2.D CAL3 = 050119CALN.B\CAL3.D

CAL4 = 050119CALN.B\CAL4.D CAL5 = 050119CALN.B\CAL5.D CAL6 = 050119CALN.B\CAL6.D

CAL7 = 050119CALN.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
2-Nitrophenol	Averaged	0.25334	0.19325	0.20801	0.19198	0.19131	0.19030
4-Nitrophenol	Averaged	0.24206	0.24054	0.20835	0.18991	0.18931	0.18991
N-Nitroso-di-n-propylamine	Averaged	1.34897	1.17708	1.09694	0.97401	0.98030	0.97064
N-Nitrosodiphenylamine	Averaged		0.56772	0.66352	0.58326	0.61580	0.57999
Pentachlorophenol	Averaged			0.19915	0.18739	0.19520	0.18925
Phenol	Averaged		2.08089	1.75250	1.56274	1.55719	1.55124
2,4,5-Trichlorophenol	Averaged		0.46866	0.51125	0.46641	0.47618	0.47397
2,4,6-Trichlorophenol	Averaged	0.59471	0.45198	0.51693	0.44864	0.43388	0.42755
2-Fluorophenol (S)	Averaged	1.58991	1.28724	1.30239	1.13738	1.17188	1.14790
Nitrobenzene-d5 (S)	Averaged		0.45971	0.38581	0.35946	0.35772	0.34942
Phenol-d5 (S)	Averaged	2.14414	1.82752	1.74183	1.53535	1.56713	1.55216
2,4,6-Tribromophenol (S)	Averaged	0.20034	0.14111	0.16860	0.15182	0.15717	0.15221

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-3
MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS8 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/01/2019 05/01/2019 Calibration Time(s): 09:13 10:51

LAB FILE ID

CAL1 = 050119CALN.B\CAL1.D CAL2 = 050119CALN.B\CAL2.D CAL3 = 050119CALN.B\CAL3.D
CAL4 = 050119CALN.B\CAL4.D CAL5 = 050119CALN.B\CAL5.D CAL6 = 050119CALN.B\CAL6.D
CAL7 = 050119CALN.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
Benzyl alcohol	Averaged	0.85984	13.52842			0.95215	
4-Bromophenylphenyl ether	Averaged	0.24130	6.66223			0.24431	
Butylbenzylphthalate	Averaged	0.55537	12.06338			0.56891	
4-Chloro-3-methylphenol	Averaged	0.29754	12.56224			0.32720	
4-Chloroaniline	Averaged	0.41887	10.27303			0.46041	
bis(2-Chloroethoxy)methane	Averaged	0.40129	14.85616			0.44770	
bis(2-Chloroethyl) ether	Averaged	1.17100	13.71282			1.32427	
bis(2chloro1methylethyl) ether	Averaged	1.99153	14.78250			2.25457	
2-Chloronaphthalene	Averaged	1.11145	6.35122			1.19099	
2-Chlorophenol	Averaged	1.30941	13.35193			1.43092	
4-Chlorophenylphenyl ether	Averaged	0.72828	5.43575			0.75718	
Dibenzofuran	Averaged	1.68535	6.62828			1.80823	
3,3'-Dichlorobenzidine	Averaged	0.46091	5.23250			0.49078	
2,4-Dichlorophenol	Averaged	0.31612	13.99211			0.34478	
Diethylphthalate	Averaged	1.46953	13.88616			1.60729	
2,4-Dimethylphenol	Averaged	0.29187	6.34450			0.30271	
Dimethylphthalate	Averaged	1.36804	5.58120			1.46249	
Di-n-butylphthalate	Averaged	1.11615	7.85664			1.27359	
4,6-Dinitro-2-methylphenol	Averaged	0.13892	14.18024			0.13404	
2,4-Dinitrophenol	Averaged	0.24161	1.60099			0.23754	
2,4-Dinitrotoluene	Averaged	0.45442	13.48604			0.49003	
2,6-Dinitrotoluene	Averaged	0.32777	13.40364			0.35443	
Di-n-octylphthalate	Averaged	1.08071	9.75390			1.23041	
bis(2-Ethylhexyl)phthalate	Averaged	0.80034	11.58909			0.84522	
Hexachloro-1,3-butadiene	Averaged	0.23276	6.37726			0.23946	
Hexachlorobenzene	Averaged	0.27370	5.10166			0.28293	
Hexachlorocyclopentadiene	Quadratic	0.54454		0.99641	-0.0248138	0.59176	-0.01109
Hexachloroethane	Averaged	0.56448	13.47517			0.62102	
Isophorone	Averaged	0.63918	14.32673			0.71395	
2-Methylphenol(o-Cresol)	Averaged	1.16478	13.25474			1.28957	
3&4-Methylphenol(m&p Cresol)	Averaged	1.25111	13.77903			1.38246	
2-Nitroaniline	Wt Linear	0.31584		0.99914	0.03111990	0.30412	
3-Nitroaniline	Averaged	0.33422	10.67037			0.36431	
4-Nitroaniline	Averaged	0.34332	13.53707			0.38334	
Nitrobenzene	Averaged	0.33502	14.83011			0.37992	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-4

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS8 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/01/2019 05/01/2019 Calibration Time(s): 09:13 10:51

LAB FILE ID

CAL1 = 050119CALN.B\CAL1.D CAL2 = 050119CALN.B\CAL2.D CAL3 = 050119CALN.B\CAL3.D

CAL4 = 050119CALN.B\CAL4.D CAL5 = 050119CALN.B\CAL5.D CAL6 = 050119CALN.B\CAL6.D

CAL7 = 050119CALN.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
2-Nitrophenol	Averaged	0.19154	11.39424			0.20282	
4-Nitrophenol	Averaged	0.18500	12.08524			0.20644	
N-Nitroso-di-n-propylamine	Averaged	0.96359	13.63271			1.07308	
N-Nitrosodiphenylamine	Averaged	0.57188	6.15186			0.59703	
Pentachlorophenol	Averaged	0.19029	2.50463			0.19226	
Phenol	Averaged	1.52010	13.01543			1.67078	
2,4,5-Trichlorophenol	Averaged	0.44877	4.33701			0.47421	
2,4,6-Trichlorophenol	Averaged	0.43450	13.05975			0.47260	
2-Fluorophenol (S)	Averaged	1.14399	13.01767			1.25439	
Nitrobenzene-d5 (S)	Averaged	0.35081	11.27703			0.37715	
Phenol-d5 (S)	Averaged	1.54186	13.29225			1.70143	
2,4,6-Tribromophenol (S)	Averaged	0.15089	12.15119			0.16031	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-1

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS9 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/16/2019 05/16/2019 Calibration Time(s): 08:44 10:42

LAB FILE ID

CAL1 = 051619ICAL.B\CAL1.D CAL2 = 051619ICAL.B\CAL2.D CAL3 = 051619ICAL.B\CAL3.D

CAL4 = 051619ICAL.B\CAL4.D CAL5 = 051619ICAL.B\CAL5.D CAL6 = 051619ICAL.B\CAL6.D

CAL7 = 051619ICAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Benzyl alcohol	Averaged		1.89992	1.69389	1.59224	1.55320	1.47979
4-Bromophenylphenyl ether	Averaged		0.28651	0.24517	0.21429	0.21616	0.22102
Butylbenzylphthalate	Averaged		0.71449	0.58602	0.54495	0.54804	0.53921
4-Chloro-3-methylphenol	Averaged		0.44776	0.40974	0.36145	0.36642	0.35934
4-Chloroaniline	Averaged	0.63007	0.57778	0.52986	0.45423	0.47312	0.46195
bis(2-Chloroethoxy)methane	Averaged		0.59298	0.52496	0.46057	0.47476	0.45474
bis(2-Chloroethyl) ether	Averaged		1.76175	1.66091	1.52128	1.50045	1.44811
bis(2chloro1methylethyl) ether	Averaged	4.72427	4.33768	3.73217	3.49908	3.48917	3.28444
2-Chloronaphthalene	Averaged		1.43287	1.29180	1.16938	1.14386	1.12597
2-Chlorophenol	Averaged		1.97419	1.61896	1.50864	1.54201	1.42194
4-Chlorophenylphenyl ether	Averaged		0.92745	0.83224	0.70362	0.72876	0.71550
Dibenzofuran	Averaged		2.23608	2.00627	1.72322	1.76003	1.73004
3,3'-Dichlorobenzidine	Averaged	0.71778	0.59067	0.54784	0.52128	0.51451	0.50519
2,4-Dichlorophenol	Averaged	0.41974	0.39064	0.36580	0.31125	0.32543	0.30876
Diethylphthalate	Averaged		1.74980	1.66030	1.36948	1.40190	1.38832
2,4-Dimethylphenol	Averaged	0.44289	0.41992	0.36189	0.32019	0.33186	0.32025
Dimethylphthalate	Averaged		1.70414	1.53915	1.34387	1.34845	1.30631
Di-n-butylphthalate	Averaged	1.64752	1.49645	1.31815	1.17037	1.17436	1.19339
4,6-Dinitro-2-methylphenol	Averaged	0.17445	0.17966	0.15681	0.14065	0.14659	0.14069
2,4-Dinitrophenol	Averaged	0.24785	0.23479	0.24275	0.23173	0.22787	0.23109
2,4-Dinitrotoluene	Averaged		0.53344	0.51869	0.44582	0.45811	0.44960
2,6-Dinitrotoluene	Averaged	0.40587	0.37489	0.36521	0.30921	0.32577	0.31873
Di-n-octylphthalate	Averaged		1.65564	1.38498	1.16223	1.16560	1.22629
bis(2-Ethylhexyl)phthalate	Averaged	1.10460	1.03906	0.93073	0.79668	0.79603	0.79954
Hexachloro-1,3-butadiene	Averaged	0.31538	0.29023	0.25339	0.23211	0.23503	0.23205
Hexachlorobenzene	Averaged		0.34581	0.28847	0.25640	0.26571	0.25664
Hexachlorocyclopentadiene	Averaged	0.68706	0.61362	0.52678	0.50487	0.50338	0.50298
Hexachloroethane	Averaged		0.86300	0.70420	0.66345	0.66611	0.63130
Isophorone	Averaged		0.97470	0.89437	0.78627	0.81137	0.77598
2-Methylphenol(o-Cresol)	Averaged		1.78375	1.63062	1.49444	1.51887	1.41177
3&4-Methylphenol(m&p Cresol)	Averaged		1.89992	1.69389	1.59224	1.55320	1.47979
2-Nitroaniline	Averaged		0.54033	0.50446	0.45975	0.46519	0.45970
3-Nitroaniline	Averaged		0.40244	0.37806	0.34319	0.35247	0.33461
4-Nitroaniline	Averaged		0.42369	0.40698	0.36294	0.34808	0.35948
Nitrobenzene	Averaged		0.54423	0.49575	0.42864	0.44448	0.42422

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-2
MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS9 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/16/2019 05/16/2019 Calibration Time(s): 08:44 10:42

LAB FILE ID

CAL1 = 051619ICAL.B\CAL1.D CAL2 = 051619ICAL.B\CAL2.D CAL3 = 051619ICAL.B\CAL3.D
CAL4 = 051619ICAL.B\CAL4.D CAL5 = 051619ICAL.B\CAL5.D CAL6 = 051619ICAL.B\CAL6.D
CAL7 = 051619ICAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
2-Nitrophenol	Averaged	0.26073	0.23681	0.22135	0.18834	0.19857	0.19178
4-Nitrophenol	Averaged	0.30136	0.29292	0.27581	0.24444	0.24428	0.23640
N-Nitroso-di-n-propylamine	Averaged		1.62545	1.36590	1.26288	1.30700	1.22321
N-Nitrosodiphenylamine	Averaged		0.75743	0.66526	0.57815	0.57933	0.58428
Pentachlorophenol	Averaged	0.22076	0.21424	0.19150	0.16098	0.16606	0.16590
Phenol	Averaged		2.47966	2.11829	1.99446	2.00522	1.87559
2,4,5-Trichlorophenol	Averaged		0.58761	0.53544	0.45687	0.45706	0.44111
2,4,6-Trichlorophenol	Averaged		0.52884	0.49623	0.43297	0.44081	0.42176
2-Fluorophenol (S)	Averaged	1.99410	1.65986	1.60833	1.43150	1.43674	1.40719
Nitrobenzene-d5 (S)	Averaged		0.54342	0.49647	0.43938	0.44877	0.43881
Phenol-d5 (S)	Averaged		2.38579	2.12793	1.92283	1.94113	1.80265
2,4,6-Tribromophenol (S)	Averaged	0.20082	0.19422	0.16163	0.14613	0.15408	0.14609

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-3

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS9 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/16/2019 05/16/2019 Calibration Time(s): 08:44 10:42

LAB FILE ID

CAL1 = 051619ICAL.B\CAL1.D CAL2 = 051619ICAL.B\CAL2.D CAL3 = 051619ICAL.B\CAL3.D

CAL4 = 051619ICAL.B\CAL4.D CAL5 = 051619ICAL.B\CAL5.D CAL6 = 051619ICAL.B\CAL6.D

CAL7 = 051619ICAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
Benzyl alcohol	Averaged	1.51881	9.50130			1.62298	
4-Bromophenylphenyl ether	Averaged	0.21892	12.07917			0.23368	
Butylbenzylphthalate	Averaged	0.52008	12.41092			0.57547	
4-Chloro-3-methylphenol	Averaged	0.35644	9.69459			0.38352	
4-Chloroaniline	Averaged	0.45118	13.74882			0.51117	
bis(2-Chloroethoxy)methane	Averaged	0.45368	11.24601			0.49362	
bis(2-Chloroethyl) ether	Averaged	1.47036	7.92583			1.56048	
bis(2chloro1methylethyl) ether	Averaged	3.41520	14.26338			3.78315	
2-Chloronaphthalene	Averaged	1.06456	11.16332			1.20474	
2-Chlorophenol	Averaged	1.47658	12.52731			1.59039	
4-Chlorophenylphenyl ether	Averaged	0.69886	12.04704			0.76774	
Dibenzofuran	Averaged	1.69140	11.71424			1.85784	
3,3'-Dichlorobenzidine	Averaged	0.48110	14.46410			0.55405	
2,4-Dichlorophenol	Averaged	0.30695	13.08136			0.34694	
Diethylphthalate	Averaged	1.34716	11.63271			1.48616	
2,4-Dimethylphenol	Averaged	0.32069	14.34191			0.35967	
Dimethylphthalate	Averaged	1.29015	11.58139			1.42201	
Di-n-butylphthalate	Averaged	1.18298	14.47456			1.31189	
4,6-Dinitro-2-methylphenol	Averaged	0.14386	10.53875			0.15467	
2,4-Dinitrophenol	Averaged	0.23116	3.08466			0.23532	
2,4-Dinitrotoluene	Averaged	0.43970	8.61645			0.47422	
2,6-Dinitrotoluene	Averaged	0.31186	10.89015			0.34451	
Di-n-octylphthalate	Averaged	1.19620	14.89115			1.29849	
bis(2-Ethylhexyl)phthalate	Averaged	0.79771	14.71176			0.89491	
Hexachloro-1,3-butadiene	Averaged	0.22978	13.34811			0.25542	
Hexachlorobenzene	Averaged	0.25912	12.56826			0.27869	
Hexachlorocyclopentadiene	Averaged	0.49308	13.54522			0.54740	
Hexachloroethane	Averaged	0.66517	11.97075			0.69887	
Isophorone	Averaged	0.77576	9.70630			0.83641	
2-Methylphenol(o-Cresol)	Averaged	1.45124	8.85690			1.54845	
3&4-Methylphenol(m&p Cresol)	Averaged	1.51881	9.50130			1.62298	
2-Nitroaniline	Averaged	0.43536	7.96674			0.47747	
3-Nitroaniline	Averaged	0.33312	7.70488			0.35731	
4-Nitroaniline	Averaged	0.32497	10.02171			0.37102	
Nitrobenzene	Averaged	0.42772	10.59243			0.46084	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-4

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS9 GC Column: Col 1 SDG No.: 50225466

Calibration Date(s): 05/16/2019 05/16/2019 Calibration Time(s): 08:44 10:42

LAB FILE ID

CAL1 = 051619ICAL.B\CAL1.D CAL2 = 051619ICAL.B\CAL2.D CAL3 = 051619ICAL.B\CAL3.D

CAL4 = 051619ICAL.B\CAL4.D CAL5 = 051619ICAL.B\CAL5.D CAL6 = 051619ICAL.B\CAL6.D

CAL7 = 051619ICAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
2-Nitrophenol	Averaged	0.19218	13.03172			0.21282	
4-Nitrophenol	Averaged	0.23083	10.99514			0.26086	
N-Nitroso-di-n-propylamine	Averaged	1.25156	11.10690			1.33933	
N-Nitrosodiphenylamine	Averaged	0.57053	12.02701			0.62250	
Pentachlorophenol	Averaged	0.16653	13.70991			0.18371	
Phenol	Averaged	1.91595	10.64182			2.06486	
2,4,5-Trichlorophenol	Averaged	0.43479	12.72789			0.48548	
2,4,6-Trichlorophenol	Averaged	0.41025	10.27999			0.45514	
2-Fluorophenol (S)	Averaged	1.40033	13.85575			1.56258	
Nitrobenzene-d5 (S)	Averaged	0.43810	9.29083			0.46749	
Phenol-d5 (S)	Averaged	1.85521	10.79211			2.00592	
2,4,6-Tribromophenol (S)	Averaged	0.14720	14.26096			0.16431	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-1
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15262842CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/30/2019 Time: 11:51

Instrument ID: 50MSS8 GC Column: Col 1 Init. Calib. Date(s): 03/31/2019 05/01/2019

Lab File ID: 053019.B\CCV050.D Init. Calib. Time(s): 15:10 10:51

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Benzyl alcohol	Averaged	0.95215	0.85438	0.0500	-10.2677	20.0000
4-Bromophenylphenyl ether	Averaged	0.24431	0.23713	0.0500	-2.9369	20.0000
Butylbenzylphthalate	Averaged	0.56891	0.50892	0.0500	-10.5448	20.0000
4-Chloro-3-methylphenol	Averaged	0.32720	0.29894	0.0500	-8.6369	20.0000
4-Chloroaniline	Averaged	0.46041	0.42882	0.0500	-6.8610	20.0000
bis(2-Chloroethoxy)methane	Averaged	0.44770	0.39608	0.0500	-11.5309	20.0000
bis(2-Chloroethyl) ether	Averaged	1.32427	1.09093	0.0500	-17.6202	20.0000
bis(2chloro1methylethyl) ether	Averaged	2.25457	1.81441	0.0500	-19.5227	20.0000
2-Chloronaphthalene	Averaged	1.19099	1.15741	0.0500	-2.8201	20.0000
2-Chlorophenol	Averaged	1.43092	1.28138	0.0500	-10.4509	20.0000
4-Chlorophenylphenyl ether	Averaged	0.75718	0.70966	0.0500	-6.2760	20.0000
Dibenzofuran	Averaged	1.80823	1.75050	0.0500	-3.1926	20.0000
3,3'-Dichlorobenzidine	Averaged	0.49078	0.51267	0.0500	4.4608	20.0000
2,4-Dichlorophenol	Averaged	0.34478	0.31945	0.0500	-7.3470	20.0000
Diethylphthalate	Averaged	1.60729	1.41464	0.0500	-11.9859	20.0000
2,4-Dimethylphenol	Averaged	0.30271	0.26677	0.0500	-11.8743	20.0000
Dimethylphthalate	Averaged	1.46249	1.40247	0.0500	-4.1041	20.0000
Di-n-butylphthalate	Averaged	1.27359	1.20499	0.0500	-5.3862	20.0000
4,6-Dinitro-2-methylphenol	Averaged	0.13404	0.13687	0.0500	2.1100	20.0000
2,4-Dinitrophenol	Averaged	0.23754	0.22159	0.0500	-6.7136	20.0000
2,4-Dinitrotoluene	Averaged	0.49003	0.45992	0.0500	-6.1435	20.0000
2,6-Dinitrotoluene	Averaged	0.35443	0.33233	0.0500	-6.2356	20.0000
Di-n-octylphthalate	Averaged	1.23041	1.12492	0.0500	-8.5743	20.0000
bis(2-Ethylhexyl)phthalate	Averaged	0.84522	0.74119	0.0500	-12.3084	20.0000
Hexachloro-1,3-butadiene	Averaged	0.23946	0.22365	0.0500	-6.6027	20.0000
Hexachlorobenzene	Averaged	0.28293	0.27811	0.0500	-1.7062	20.0000
Hexachlorocyclopentadiene	Quadratic	50	30.40684	0.0500	-39.1863	20.0000
Hexachloroethane	Averaged	0.62102	0.58407	0.0500	-5.9501	20.0000
Isophorone	Averaged	0.71395	0.57526	0.0500	-19.4262	20.0000
2-Methylphenol(o-Cresol)	Averaged	1.28957	1.20555	0.0500	-6.5154	20.0000
3&4-Methylphenol(m&p Cresol)	Averaged	1.38246	1.28053	0.0500	-7.3728	20.0000
2-Nitroaniline	Wt Linear	50	49.67676	0.0500	-0.6465	20.0000
3-Nitroaniline	Averaged	0.36431	0.34816	0.0500	-4.4339	20.0000
4-Nitroaniline	Averaged	0.38334	0.35950	0.0500	-6.2182	20.0000
Nitrobenzene	Averaged	0.37992	0.25100	0.0500	-33.9326	20.0000
2-Nitrophenol	Averaged	0.20282	0.19849	0.0500	-2.1327	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-2
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15262842CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/30/2019 Time: 11:51

Instrument ID: 50MSS8 GC Column: Col 1 Init. Calib. Date(s): 03/31/2019 05/01/2019

Lab File ID: 053019.B\CCV050.D Init. Calib. Time(s): 15:10 10:51

SDG No.: 50225466

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
4-Nitrophenol	Averaged	0.20644	0.17900	0.0500	-13.2912	20.0000
N-Nitroso-di-n-propylamine	Averaged	1.07308	0.97321	0.0500	-9.3066	20.0000
N-Nitrosodiphenylamine	Averaged	0.59703	0.59129	0.0500	-0.9604	20.0000
Pentachlorophenol	Averaged	0.19226	0.16117	0.0500	-16.1694	20.0000
Phenol	Averaged	1.67078	1.49333	0.0500	-10.6208	20.0000
2,4,5-Trichlorophenol	Averaged	0.47421	0.44241	0.0500	-6.7048	20.0000
2,4,6-Trichlorophenol	Averaged	0.47260	0.42420	0.0500	-10.2413	20.0000
2-Fluorophenol (S)	Averaged	1.25439	1.45931	0.0500	16.3369	20.0000
Nitrobenzene-d5 (S)	Averaged	0.37715	0.26336	0.0500	-30.1711	20.0000
Phenol-d5 (S)	Averaged	1.70143	1.49680	0.0500	-12.0269	20.0000
2,4,6-Tribromophenol (S)	Averaged	0.16031	0.15026	0.0500	-6.2692	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-1
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15253810CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 06/02/2019 Time: 11:33

Instrument ID: 50MSS9 GC Column: Col 1 Init. Calib. Date(s): 05/16/2019 05/16/2019

Lab File ID: 060219A.B\CCV050.D Init. Calib. Time(s): 08:44 10:42

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Benzyl alcohol	Averaged	1.62298	1.89464	0.0500	16.7390	20.0000
4-Bromophenylphenyl ether	Averaged	0.23368	0.22236	0.0500	-4.8448	20.0000
Butylbenzylphthalate	Averaged	0.57547	0.47936	0.0500	-16.7011	20.0000
4-Chloro-3-methylphenol	Averaged	0.38352	0.48769	0.0500	27.1599	20.0000
4-Chloroaniline	Averaged	0.51117	0.51086	0.0500	-0.0605	20.0000
bis(2-Chloroethoxy)methane	Averaged	0.49362	0.54006	0.0500	9.4090	20.0000
bis(2-Chloroethyl) ether	Averaged	1.56048	1.63666	0.0500	4.8820	20.0000
bis(2chloro1methylethyl) ether	Averaged	3.78315	4.69765	0.0500	24.1731	20.0000
2-Chloronaphthalene	Averaged	1.20474	1.07612	0.0500	-10.6760	20.0000
2-Chlorophenol	Averaged	1.59039	1.56502	0.0500	-1.5949	20.0000
4-Chlorophenylphenyl ether	Averaged	0.76774	0.80739	0.0500	5.1648	20.0000
Dibenzofuran	Averaged	1.85784	1.91486	0.0500	3.0693	20.0000
3,3'-Dichlorobenzidine	Averaged	0.55405	0.53868	0.0500	-2.7741	20.0000
2,4-Dichlorophenol	Averaged	0.34694	0.33812	0.0500	-2.5409	20.0000
Diethylphthalate	Averaged	1.48616	1.61489	0.0500	8.6621	20.0000
2,4-Dimethylphenol	Averaged	0.35967	0.32361	0.0500	-10.0261	20.0000
Dimethylphthalate	Averaged	1.42201	1.45662	0.0500	2.4337	20.0000
Di-n-butylphthalate	Averaged	1.31189	1.26314	0.0500	-3.7160	20.0000
4,6-Dinitro-2-methylphenol	Averaged	0.15467	0.15374	0.0500	-0.6058	20.0000
2,4-Dinitrophenol	Averaged	0.23532	0.25378	0.0500	7.8474	20.0000
2,4-Dinitrotoluene	Averaged	0.47422	0.54348	0.0500	14.6041	20.0000
2,6-Dinitrotoluene	Averaged	0.34451	0.35640	0.0500	3.4528	20.0000
Di-n-octylphthalate	Averaged	1.29849	1.16940	0.0500	-9.9419	20.0000
bis(2-Ethylhexyl)phthalate	Averaged	0.89491	0.73773	0.0500	-17.5634	20.0000
Hexachloro-1,3-butadiene	Averaged	0.25542	0.26333	0.0500	3.0941	20.0000
Hexachlorobenzene	Averaged	0.27869	0.27258	0.0500	-2.1933	20.0000
Hexachlorocyclopentadiene	Averaged	0.54740	0.36558	0.0500	-33.2154	20.0000
Hexachloroethane	Averaged	0.69887	0.70771	0.0500	1.2655	20.0000
Isophorone	Averaged	0.83641	0.97155	0.0500	16.1574	20.0000
2-Methylphenol(o-Cresol)	Averaged	1.54845	1.67033	0.0500	7.8712	20.0000
3&4-Methylphenol(m&p Cresol)	Averaged	1.62298	1.89464	0.0500	16.7390	20.0000
2-Nitroaniline	Averaged	0.47747	0.53303	0.0500	11.6367	20.0000
3-Nitroaniline	Averaged	0.35731	0.37317	0.0500	4.4386	20.0000
4-Nitroaniline	Averaged	0.37102	0.40915	0.0500	10.2762	20.0000
Nitrobenzene	Averaged	0.46084	0.48728	0.0500	5.7367	20.0000
2-Nitrophenol	Averaged	0.21282	0.19358	0.0500	-9.0405	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-2
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15253810CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 06/02/2019 Time: 11:33

Instrument ID: 50MSS9 GC Column: Col 1 Init. Calib. Date(s): 05/16/2019 05/16/2019

Lab File ID: 060219A.B\CCV050.D Init. Calib. Time(s): 08:44 10:42

SDG No.: 50225466

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
4-Nitrophenol	Averaged	0.26086	0.32096	0.0500	23.0376	20.0000
N-Nitroso-di-n-propylamine	Averaged	1.33933	1.65633	0.0500	23.6686	20.0000
N-Nitrosodiphenylamine	Averaged	0.62250	0.52924	0.0500	-14.9818	20.0000
Pentachlorophenol	Averaged	0.18371	0.15028	0.0500	-18.1954	20.0000
Phenol	Averaged	2.06486	2.35892	0.0500	14.2411	20.0000
2,4,5-Trichlorophenol	Averaged	0.48548	0.46224	0.0500	-4.7856	20.0000
2,4,6-Trichlorophenol	Averaged	0.45514	0.43291	0.0500	-4.8852	20.0000
2-Fluorophenol (S)	Averaged	1.56258	1.39339	0.0500	-10.8273	20.0000
Nitrobenzene-d5 (S)	Averaged	0.46749	0.48717	0.0500	4.2085	20.0000
Phenol-d5 (S)	Averaged	2.00592	2.17900	0.0500	8.6285	20.0000
2,4,6-Tribromophenol (S)	Averaged	0.16431	0.13599	0.0500	-17.2368	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Prep Log Report

Batch Information: OEXT 502967 8270 SCAN (S)

Template Version: EF-IN-Q-388-Rev.03 (23Jun2017)

Prep Method	EPA 3546	Analysis Method	EPA 8270	Instrument	50BALJ	Extracted By	MJT
Extracted Date/Time	05/29/2019 09:29:43:853	Spiked By	KRM	Spiked By Date/Time	05/29/2019 09:25:14:290	Vialed By	KRM
Vialed By Date	05/29/2019 15:54:26:794	Methylene Chloride	208699	Ottawa Sand	199033	Sodium Sulfate	202028
Filter Paper	78278	3:1 Methylene Chloride/Acetone	207860	Reviewed By		Reviewed By Date	
Batch Notes							

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Sample Notes	8270C-SPK (mL)	8270C-SS (mL)
8270SCNS_P	BLANK	**2320954**	30.2	1			177522 (1)
8270SCNS_P	LCS	**2320955**	30	1		194954 (1)	177522 (1)
8270SCNS_P	PS	**50225466001**	30	1			177522 (1)
8270SCNS_P	PS	**50225466002**	30.1	1			177522 (1)
8270SCNS_P	PS	**50225466003**	30.2	1			177522 (1)
8270SCNS_P	PS	**50225466004**	30.3	1			177522 (1)
8270SCNS_P	RQS	**50225466005**	30.3	1			177522 (1)
8270SCNS_P	MS	**2320956**	30.1	1		194954 (1)	177522 (1)
8270SCNS_P	MSD	**2320957**	30	1		194954 (1)	177522 (1)
8270SCNS_P	PS	**50225466006**	30.2	1			177522 (1)
8270SCNS_P	PS	**50225466009**	30.3	1			177522 (1)
8270SCNS_P	PS	**50225466010**	30	1			177522 (1)
8270SCNS_P	PS	**50225466011**	30.4	1			177522 (1)
8270SCNS_P	PS	**50225466015**	30.2	1			177522 (1)
8270SCNS_P	PS	**50225466016**	30.3	1			177522 (1)
8270SCNS_P	PS	**50225466017**	30.3	1			177522 (1)
8270SCNS_P	PS	**50225466018**	30.2	1			177522 (1)
8270SCNS_P	PS	**50225973018**	30	1			177522 (1)
8270SCNS_P	PS	**50225973019**	30	1			177522 (1)
8270SCNS_P	PS	**50225973020**	30.2	1			177522 (1)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Sample Notes	8270C-SPK (mL)	8270C-SS (mL)
8270SCNS_P	PS	**50225973021**	30.2	5			177522 (1)
8270SCNS_P	PS	**50225973022**	30	1			177522 (1)
8270SCNS_P	PS	**50225973023**	30.1	1			205662 (1)
8270SCNS_P	PS	**50225973024**	30.2	5			205662 (1)

Standard Notes:

177522: Sim/Scan Combo Surr Stock (12) **194954: 8270 combo spike (7)** **205662: Sim/Scan Combo Surr Stock (10) 25 mL**

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss8.i
Column .50um DB-5ms 30m X 0.25mm He
Misc. Prep Info [L]: MeCl2 Lot #173082
Misc. Prep Info [S]: MeCl2 lot #173082
ISTD lot: 202139:1
Lot:
Tune std: _____

Method: Semivolatile REPORT SW-846 Method 8
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp.d	TUNE,192529:1	L/28669	DFTPP	1	m625tune	5/01/19	09:04 ✓	JCM	good
1/cal4.d	CAL4,199453:1	L/28669	CALIB_4	1	m8270new	5/01/19	09:13	JCM	
1/cal1.d	CAL1,199450:1	L/28669	CALIB_1	1	m8270new	5/01/19	09:30	JCM	
1/cal2.d	CAL2,199451:1	L/28669	SAMPLE	1	m8270new	5/01/19	09:46	JCM	
1/cal3.d	CAL3,199452:1	L/28669	CALIB_3	1	m8270new	5/01/19	10:02	JCM	
1/cal5.d	CAL5,199454:1	L/28669	CALIB_5	1	m8270new	5/01/19	10:19	JCM	
1/cal6.d	CAL6,199455:1	L/28669	CALIB_6	1	m8270new	5/01/19	10:35	JCM	
1/cal7.d	CAL7,199456:1	L/28669	CALIB_7	1	m8270new	5/01/19	10:51	JCM	
1/icv.d	ICV,199588:1	L/28669	~~LCS~~ ICV	1	m8270new	5/01/19	11:08	JCM	
1/2295546.d	2295546	L/28638	BLANK	1	m8270new	5/01/19	12:06	JCM	
1/2295547.d	2295547	L/28638	LCS	1	m8270new	5/01/19	12:22	JCM	
1/50222843001.d	50222843001	S/28638	SAMPLE	1	m8270new	5/01/19	12:38	JCM	
1/2295548.d	2295548	S/28638	MS	1	m8270new	5/01/19	12:55	JCM	
1/50223338001.d	50223338001	S/28638	SAMPLE	1	m8270new	5/01/19	13:11	JCM	
1/50223337001.d	50223337001	S/28638	SAMPLE	1	m8270new	5/01/19	13:27 ✓	JCM	

File Path 1: \\192.168.50.6\chem\50mss8.i\050119caln.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 07:23 05/07/2019

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss9.i
Column .50um DB-5ms 30m X 0.25mm He — Method: Semivolatile REPORT SW-846 Method 8
Misc. Prep Info [L]: MeCl2 Lot #173082
Misc. Prep Info [S]: MeCl2 lot #173082
ISTD lot: 202139:1 — Surr. lot:
Lot:
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp1.d	TUNE,192529:1	L/28767	DFTPP	1	m625tune	5/16/19	08:01 ✓	JCM	good
1/cal4.d	CAL4,199453:1	L/28767	CALIB_4	1	m8270new	5/16/19	08:44	JCM	
1/cal1.d	CAL1,199450:1	L/28767	CALIB_1	1	m8270new	5/16/19	09:23	JCM	
1/cal2.d	CAL2,199451:1	L/28767	CALIB_2	1	m8270new	5/16/19	09:38	JCM	
1/cal3.d	CAL3,199452:1	L/28767	CALIB_3	1	m8270new	5/16/19	09:54	JCM	
1/cal5.d	CAL5,199454:1	L/28767	CALIB_5	1	m8270new	5/16/19	10:10	JCM	
1/cal6.d	CAL6,199455:1	L/28767	CALIB_6	1	m8270new	5/16/19	10:26	JCM	
1/cal7.d	CAL7,199456:1	L/28767	CALIB_7	1	m8270new	5/16/19	10:42	JCM	
1/icv.d	ICV,199588:1	L/28767	~~Lcs~~ ICV	1	m8270new	5/16/19	10:58	JCM	
1/50224097002.d	50224097002	L/28733	SAMPLE	1	m8270new	5/16/19	13:40	JCM	
1/50224097002n.d	50224097002	L/28733	SAMPLE	1	m8270new	5/16/19	14:12	JCM	
1/2303279.d	2303279	S/28725	BLANK	1	m8270new	5/16/19	17:43	JCM	
1/2303280.d	2303280	S/28725	LCS	1	m8270new	5/16/19	17:59	JCM	
1/50223886001.d	50223886001	S/28725	SAMPLE	1	m8270new	5/16/19	18:15 ✓	JCM	
1/2307128.d	2307128	L/28734	BLANK	1	m8270new	5/17/19	03:30 ✓	JCM	6.25[15]
1/2307129.d	2307129	L/28734	LCS	1	m8270new	5/17/19	03:46	JCM	
1/50223836002.d	50223836002	L/28732	SAMPLE	1	m8270new	5/17/19	04:03	JCM	
1/2300647.d	2300647	L/28732	MS	1	m8270new	5/17/19	04:19	JCM	
1/2300648.d	2300648	L/28732	MSD	1	m8270new	5/17/19	04:35	JCM	
1/50224464002.d	50224464002	L/28733	SAMPLE	1	m8270new	5/17/19	04:51	JCM	
1/50224388001.d	50224388001	L/28733	SAMPLE	1	m8270new	5/17/19	05:07	JCM	
1/50224472001.d	50224472001	L/28733	SAMPLE	1	m8270new	5/17/19	05:23	JCM	
1/50223969001x.d	50223969001X5	L/28732	SAMPLE	5	m8270new	5/17/19	05:39	JCM	
1/50223993001.d	50223993001	L/28731	SAMPLE	1	m8270new	5/17/19	05:55	JCM	
1/50223993002.d	50223993002	L/28731	SAMPLE	1	m8270new	5/17/19	06:11	JCM	
1/50224116001.d	50224116001	L/28731	SAMPLE	1	m8270new	5/17/19	06:27	JCM	
1/50224162001.d	50224162001	L/28731	SAMPLE	1	m8270new	5/17/19	06:43	JCM	
1/50224163001.d	50224163001	L/28731	SAMPLE	1	m8270new	5/17/19	06:59	JCM	
1/50224163003.d	50224163003	L/28731	SAMPLE	1	m8270new	5/17/19	07:15	JCM	
1/50224331001.d	50224331001	L/28734	SAMPLE	1	m8270new	5/17/19	07:31	JCM	

File Path 1: \\192.168.50.6\chem\50mss9.i\051619ical.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 07:04 05/29/2019

Reviewed By/Date: _____ Page: 1 of 2

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mss9.i

Column .50um DB-5ms 30m X 0.25mm He Method: Semivolatile REPORT SW-846 Method 8270/EPA 625

Misc. Prep Info [L]: MeCl2 Lot #173082

Misc. Prep Info [S]: MeCl2 lot #173082

ISTD lot: 202139:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50224331004.d	50224331004	L/28734	SAMPLE	1	m8270new	5/17/19	07:47 ✓	JCM	625

File Path 1: \\192.168.50.6\chem\50mss9.i\051619ical.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 07:04 05/29/2019

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss8.i
Column 0m X 2mm
Misc. Prep Info [L]: MeCl2 Lot #173082
Misc. Prep Info [S]: MeCl2 lot #173082
ISTD lot: 7540-025
Lot:
Tune std: _____

Method:

Surr. lot: see extract sheet

Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp.d	TUNE,192529:1	L/	DFTPP	1	m625tune	5/30/19	11:14	JCM	good
1/ccv0501.d	CCV,199457:1	L/	CCALIB_4	1	m8270new	5/30/19	11:23	JCM	(Fail)
1/ccv050.d	CCV,199457:1	L/	CCALIB_4	1	m8270new	5/30/19	11:51	JCM	good
1/2320486.d	2320486	S/28844	BLANK	1	m8270new	5/30/19	12:44	JCM	
1/2320487.d	2320487	S/28844	LCS	1	m8270new	5/30/19	13:01	JCM	
1/50225588001.d	50225588001	S/28844	SAMPLE	1	m8270new	5/30/19	13:17	JCM	
1/50225588002.d	50225588002	S/28844	SAMPLE	1	m8270new	5/30/19	13:33	JCM	
1/50225588003.d	50225588003	S/28844	SAMPLE	1	m8270new	5/30/19	13:50	JCM	
1/50225588004.d	50225588004	S/28844	SAMPLE	1	m8270new	5/30/19	14:06	JCM	
1/50225973001.d	50225973001	S/28844	SAMPLE	1	m8270new	5/30/19	14:22	JCM	
1/50225973002.d	50225973002	S/28844	SAMPLE	1	m8270new	5/30/19	14:39	JCM	
1/2322290.d	2322290	L/28854	BLANK	1	m8270new	5/30/19	14:55	JCM	
1/2322291.d	2322291	L/28854	LCS	1	m8270new	5/30/19	15:11	JCM	
1/50225019001.d	50225019001	L/28854	SAMPLE	1	m8270new	5/30/19	15:28	JCM	
1/50225249001.d	50225249001	S/28854	SAMPLE	1	m8270new	5/30/19	15:44	JCM	
1/50225973003.d	50225973003	S/28844	SAMPLE	1	m8270new	5/30/19	16:01	JCM	
1/50225973004.d	50225973004	S/28844	SAMPLE	1	m8270new	5/30/19	16:17	JCM	
1/50225973005.d	50225973005	S/28844	SAMPLE	1	m8270new	5/30/19	16:33	JCM	
1/50225973006.d	50225973006	S/28844	SAMPLE	1	m8270new	5/30/19	16:49	JCM	
1/50225973007.d	50225973007	S/28844	SAMPLE	1	m8270new	5/30/19	17:06	JCM	
1/50225973008.d	50225973008	S/28844	SAMPLE	1	m8270new	5/30/19	17:22	JCM	
1/50225973009.d	50225973009	S/28844	SAMPLE	1	m8270new	5/30/19	17:39	JCM	
1/50225973010.d	50225973010	S/28844	SAMPLE	1	m8270new	5/30/19	17:55	JCM	
1/50225973011.d	50225973011	S/28844	SAMPLE	1	m8270new	5/30/19	18:11	JCM	
1/2320488.d	2320488	S/28844	MS	1	m8270new	5/30/19	18:28	JCM	
1/2320489.d	2320489	S/28844	MSD	1	m8270new	5/30/19	18:44	JCM	
1/50225973013.d	50225973013	S/28844	SAMPLE	1	m8270new	5/30/19	19:00	JCM	
1/50225973014.d	50225973014	S/28844	SAMPLE	1	m8270new	5/30/19	19:17	JCM	
1/50225973015.d	50225973015	S/28844	SAMPLE	1	m8270new	5/30/19	19:33	JCM	
1/50225973016.d	50225973016	S/28844	SAMPLE	1	m8270new	5/30/19	19:49	JCM	

File Path 1: \\192.168.50.6\chem\50mss8.i\053019.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:04 05/31/2019

Reviewed By/Date: _____

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mss8.i

Column 0m X 2mm Method:

Misc. Prep Info [L]: MeCl2 Lot #173082

Misc. Prep Info [S]: MeCl2 lot #173082

ISTD lot: 202139:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50225973017.d	50225973017	S/28844	SAMPLE	1	m8270new	5/30/19	20:06	JCM	
1/2320954.d	2320954	S/28857	BLANK	1	m8270new	5/30/19	20:22	JCM	
1/2320955.d	2320955	S/28857	LCS	1	m8270new	5/30/19	20:38	JCM	
1/50225973018.d	50225973018	S/28857	SAMPLE	1	m8270new	5/30/19	20:55	JCM	
1/50225973019.d	50225973019	S/28857	SAMPLE	1	m8270new	5/30/19	21:11	JCM	
1/50225973020.d	50225973020	S/28857	SAMPLE	1	m8270new	5/30/19	21:27	JCM	
1/50225973021.d	50225973021	S/28857	SAMPLE	1	m8270new	5/30/19	21:44	JCM	
1/50225973022.d	50225973022	S/28857	SAMPLE	1	m8270new	5/30/19	22:00	JCM	
1/50225973023.d	50225973023	S/28857	SAMPLE	1	m8270new	5/30/19	22:16	JCM	
1/50225973024.d	50225973024	S/28857	SAMPLE	1	m8270new	5/30/19	22:33	JCM	

File Path 1: \\192.168.50.6\chem\50mss8.i\053019.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 12:04 05/31/2019

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss9.i
Column 0m X 2mm — Method:
Misc. Prep Info [L]: MeCl2 Lot #173082
Misc. Prep Info [S]: MeCl2 lot #173082
ISTD lot: 7540-025 — Surr. lot: see extract sheet
Lot:
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp.d	TUNE,192529:1	L/28767	DFTPP	1	m625tune	6/02/19	11:24 ✓	JCM	good
1/ccv050.d	CCV,199457:1	L/28767	CCALIB_4	1	m8270new	6/02/19	11:33	JCM	
1/2323555.d	2323555	S/28879	BLANK	1	m8270new	6/02/19	12:24	JCM	
1/2323556.d	2323556	S/28879	LCS	1	m8270new	6/02/19	12:40	JCM	
1/50225994001.d	50225994001	S/28879	SAMPLE	1	m8270new	6/02/19	12:56	JCM	
1/50226302001.d	50226302001	S/28879	SAMPLE	1	m8270new	6/02/19	13:12	JCM	
1/50226302002.d	50226302002	S/28879	SAMPLE	1	m8270new	6/02/19	13:28	JCM	
1/50226302003.d	50226302003	S/28879	SAMPLE	1	m8270new	6/02/19	13:44	JCM	
1/50226302004.d	50226302004	S/28879	SAMPLE	1	m8270new	6/02/19	14:00	JCM	
1/50226485001.d	50226485001	S/28879	SAMPLE	1	m8270new	6/02/19	14:16	JCM	
1/50226485002.d	50226485002	S/28879	SAMPLE	1	m8270new	6/02/19	14:32	JCM	
1/50226485003.d	50226485003	S/28879	SAMPLE	1	m8270new	6/02/19	14:48	JCM	
1/50226485004.d	50226485004	S/28879	SAMPLE	1	m8270new	6/02/19	15:04	JCM	
1/50225466001.d	50225466001	S/28857	SAMPLE	1	m8270new	6/02/19	15:20	JCM	
1/50225466002.d	50225466002	S/28857	SAMPLE	1	m8270new	6/02/19	15:36	JCM	
1/50225466003.d	50225466003	S/28857	SAMPLE	1	m8270new	6/02/19	15:52	JCM	
1/50225466004.d	50225466004	S/28857	SAMPLE	1	m8270new	6/02/19	16:08	JCM	
1/50225466005.d	50225466005	S/28857	SAMPLE	1	m8270new	6/02/19	16:24	JCM	
1/2320956.d	2320956	S/28857	MS	1	m8270new	6/02/19	16:40	JCM	
1/2320957.d	2320957	S/28857	MSD	1	m8270new	6/02/19	16:56	JCM	
1/50225466006.d	50225466006	S/28857	SAMPLE	1	m8270new	6/02/19	17:12	JCM	
1/50225466009.d	50225466009	S/28857	SAMPLE	1	m8270new	6/02/19	17:28	JCM	
1/50225466010.d	50225466010	S/28857	SAMPLE	1	m8270new	6/02/19	17:44	JCM	
1/50225466011.d	50225466011	S/28857	SAMPLE	1	m8270new	6/02/19	18:00	JCM	
1/50225466015.d	50225466015	S/28857	SAMPLE	1	m8270new	6/02/19	18:16	JCM	
1/50225466016.d	50225466016	S/28857	SAMPLE	1	m8270new	6/02/19	18:31	JCM	
1/50225466017.d	50225466017	S/28857	SAMPLE	1	m8270new	6/02/19	18:47	JCM	
1/50225466018.d	50225466018	S/28857	SAMPLE	1	m8270new	6/02/19	19:03 ✓	JCM	

File Path 1: \\192.168.50.6\chem\50mss9.i\060219a.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:45 06/04/2019

Reviewed By/Date: _____ Page: 1 of 1

MSSV SIM - FORM II SVOA-1
SOLID SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Instrument ID: 50MSS3

LAB SAMPLE ID	SAMPLE NAME	2FBP	TD14
2320950	2320950BLANK	62	89
2320951	2320951LCS	57	82
2320952	2320952MS	61	78
2320953	2320953MSD	64	80
50225466001	SP-1 (3-5)	36	49
50225466002	SP-1 (5-7)	48	60
50225466003	SP-2 (0-2)	67	96
50225466004	SP-2 (2-4)	58	77
50225466005	SP-3 (0-2)	62	80
50225466006	SP-3 (2-4)	59	82
50225466009	SP-4 (6-8)	64	89
50225466010	SP-4 (8-9)	65	90
50225466011	SP-4 (9-10.5)	64	89
50225466015	SP-5 (9-11)	64	93
50225466016	SP-5 (11-13)	59	87
50225466017	SP-5 (11-13) DUP	60	85
50225466018	SP-5 (6-8)	63	86

	QC LIMITS
(2FBP) = 2-Fluorobiphenyl (S)	(23-107)
(TD14) = p-Terphenyl-d14 (S)	(16-117)

* Values outside of QC Limits

MSSV SIM - FORM III SVOA-1

SOLID LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 2320951LCS
Date Extracted: 05/29/2019
Date Analyzed (1): 05/30/2019
Instrument: 50MSS3
LCS Lot No: 194954
Lab File ID: 053019.B\2320951.D
SDG No.: 50225466

COMPOUND	AMOUNT ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS %REC	QC LIMITS REC.
Acenaphthene	333	211	63	48-109
Acenaphthylene	333	211	63	49-108
Anthracene	333	244	73	44-104
Benzo(a)anthracene	333	242	73	46-122
Benzo(a)pyrene	333	193	58	31-156
Benzo(b)fluoranthene	333	218	65	29-158
Benzo(g,h,i)perylene	333	203	61	35-145
Benzo(k)fluoranthene	333	191	57	33-150
Chrysene	333	277	83	47-120
Dibenz(a,h)anthracene	333	197	59	28-160
Fluoranthene	333	236	71	49-121
Fluorene	333	211	63	47-116
Indeno(1,2,3-cd)pyrene	333	200	60	31-155
1-Methylnaphthalene	333	215	64	44-111
2-Methylnaphthalene	333	218	66	45-111
Naphthalene	333	210	63	47-103
Phenanthrene	333	243	73	50-114
Pyrene	333	277	83	49-114

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-1

SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 2320952MS
Date Extracted: 05/29/2019
Date Analyzed (1): 06/02/2019
Instrument: 50MSS3
Lab File ID: 060219.B\2320952X.D
Parent Sample ID: SP-3 (0-2)
SDG No.: 50225466

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC	QC LIMITS REC.
1-Methylnaphthalene	396	<12.1	277	70	10-145
2-Methylnaphthalene	396	<12.4	280	71	10-135
Acenaphthene	396	<14.8	272	69	10-138
Acenaphthylene	396	23.9J	282	65	11-133
Anthracene	396	59.3	349	73	10-131
Benzo(a)anthracene	396	380	810	108	10-158
Benzo(a)pyrene	396	400	786	98	10-174
Benzo(b)fluoranthene	396	441	865	107	10-184
Benzo(g,h,i)perylene	396	406	729	81	10-170
Benzo(k)fluoranthene	396	346	708	91	10-183
Chrysene	396	488	979	124	10-147
Dibenz(a,h)anthracene	396	107	351	62	10-166
Fluoranthene	396	724	1270	138	10-158
Fluorene	396	<14.8	268	68	10-142
Indeno(1,2,3-cd)pyrene	396	337	667	83	11-167
Naphthalene	396	<11.8	284	72	13-128
Phenanthrene	396	196	549	89	10-164
Pyrene	396	786	1410	157	10-152

Spike Recovery: 1 out of 18 outside limits.

MSSV SIM - FORM III SVOA-2

SOLID SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSS3 Matrix Spike Duplicate - Sample No: 2320953MSD

Lab File ID (2): 060219.B\2320953X.D Date Analyzed (2): 06/02/2019

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	397	291	73	5	0-20	10-145
2-Methylnaphthalene	397	291	73	4	0-20	10-135
Acenaphthene	397	291	73	7	0-20	10-138
Acenaphthylene	397	300	70	6	0-20	11-133
Anthracene	397	363	76	4	0-20	10-131
Benzo(a)anthracene	397	835	114	3	0-20	10-158
Benzo(a)pyrene	397	907	128	14	0-20	10-174
Benzo(b)fluoranthene	397	947	127	9	0-20	10-184
Benzo(g,h,i)perylene	397	784	95	7	0-20	10-170
Benzo(k)fluoranthene	397	757	103	7	0-20	10-183
Chrysene	397	1010	131	3	0-20	10-147
Dibenz(a,h)anthracene	397	369	66	5	0-20	10-166
Fluoranthene	397	1200	121	5	0-20	10-158
Fluorene	397	284	71	6	0-20	10-142
Indeno(1,2,3-cd)pyrene	397	723	97	8	0-20	11-167
Naphthalene	397	294	74	3	0-20	13-128
Phenanthrene	397	509	79	8	0-20	10-164
Pyrene	397	1320	133	7	0-20	10-152

RPD: 0 out of 18 outside limits.

Spike Recovery: 0 out of 18 outside limits.

SAMPLE NO.

2320950BLANK

MSSV SIM - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Instrument ID: 50MSS3 Matrix: Solid Lab Sample ID: 2320950

Lab File ID: 053019.B\2320950.D Date Analyzed: 05/30/2019 Time:15:26

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
2320951LCS	2320951	053019.B\2320951.D	05/30/2019 15:42
SP-1 (3-5)	50225466001	060219.B\50225466001X.D	06/02/2019 15:59
SP-1 (5-7)	50225466002	060219.B\50225466002X.D	06/02/2019 16:15
SP-2 (2-4)	50225466004	060219.B\50225466004X.D	06/02/2019 16:48
SP-3 (0-2)	50225466005	060219.B\50225466005X.D	06/02/2019 17:04
2320952MS	2320952	060219.B\2320952X.D	06/02/2019 17:21
2320953MSD	2320953	060219.B\2320953X.D	06/02/2019 17:37
SP-3 (2-4)	50225466006	060219.B\50225466006.D	06/02/2019 17:53
SP-4 (6-8)	50225466009	060219.B\50225466009.D	06/02/2019 18:10
SP-4 (8-9)	50225466010	060219.B\50225466010.D	06/02/2019 18:26
SP-4 (9-10.5)	50225466011	060219.B\50225466011.D	06/02/2019 18:43
SP-5 (9-11)	50225466015	060219.B\50225466015.D	06/02/2019 18:59
SP-5 (11-13)	50225466016	060219.B\50225466016.D	06/02/2019 19:16
SP-5 (11-13) DUP	50225466017	060219.B\50225466017.D	06/02/2019 19:32
SP-5 (6-8)	50225466018	060319.B\50225466018.D	06/03/2019 13:19
SP-2 (0-2)	50225466003	060419.B\50225466003.D	06/04/2019 13:55

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244167CCV Date Analyzed: 05/30/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 12:41

Lab File ID: 053019.B\5PPM.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		60568	5.004	109236	9.21	116770	3.571	109587	6.218
UPPER LIMIT		121136	5.504	218472	9.71	233540	4.071	219174	6.718
LOWER LIMIT		30284	4.504	54618	8.71	58385	3.071	54793.5	5.718
LAB SAMPLE ID	SAMPLE NO.								
2320950	2320950BLANK	59022	5.004	95821	9.215	113877	3.571	108722	6.218
2320951	2320951LCS	67073	5.004	110657	9.21	128289	3.568	122849	6.215

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244167CCV Date Analyzed: 05/30/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 12:41

Lab File ID: 053019.B\5PPM.D

		AREA PYL	RT
12 HOUR STD		114475	11.103
UPPER LIMIT		228950	11.603
LOWER LIMIT		57237.5	10.603
LAB SAMPLE ID	SAMPLE NO.		
2320950	2320950BLANK	110465	11.1
2320951	2320951LCS	123102	11.091

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244171CCV Date Analyzed: 06/02/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 07:35

Lab File ID: 060219.B\5PPM.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		67424	4.999	119542	9.201	129743	3.566	123366	6.212
UPPER LIMIT		134848	5.499	239084	9.701	259486	4.066	246732	6.712
LOWER LIMIT		33712	4.499	59771	8.701	64871.5	3.066	61683	5.712
LAB SAMPLE ID	SAMPLE NO.								
2320952	2320952MS	70807	4.999	113533	9.201	136983	3.566	129345	6.209
2320953	2320953MSD	68546	4.999	114096	9.201	132363	3.566	126930	6.212
50225466001	SP-1 (3-5)	71990	5	123228	9.201	139754	3.566	133835	6.209
50225466002	SP-1 (5-7)	72265	5	123608	9.201	137282	3.566	136543	6.209
50225466004	SP-2 (2-4)	70988	5	115903	9.201	135717	3.569	130736	6.212
50225466005	SP-3 (0-2)	69635	5	111594	9.201	135602	3.569	126960	6.212
50225466006	SP-3 (2-4)	74110	5	119389	9.201	142708	3.569	136916	6.209
50225466009	SP-4 (6-8)	70323	5	117172	9.201	137902	3.564	130513	6.212
50225466010	SP-4 (8-9)	68283	4.999	111246	9.201	131573	3.566	125873	6.212
50225466011	SP-4 (9-10.5)	66086	4.999	112940	9.204	127096	3.566	123088	6.209
50225466015	SP-5 (9-11)	66241	4.999	106331	9.201	126299	3.566	119392	6.209
50225466016	SP-5 (11-13)	69194	5	111859	9.201	133196	3.566	126857	6.209
50225466017	SP-5 (11-13) DUP	73124	4.999	114178	9.201	140388	3.566	133154	6.209

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244171CCV Date Analyzed: 06/02/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 07:35

Lab File ID: 060219.B\5PPM.D

		AREA PYL	RT
12 HOUR STD		123788	11.091
UPPER LIMIT		247576	11.591
LOWER LIMIT		61894	10.591
LAB SAMPLE ID	SAMPLE NO.		
2320952	2320952MS	128279	11.091
2320953	2320953MSD	128557	11.091
50225466001	SP-1 (3-5)	142867	11.091
50225466002	SP-1 (5-7)	133477	11.091
50225466004	SP-2 (2-4)	133698	11.091
50225466005	SP-3 (0-2)	133010	11.091
50225466006	SP-3 (2-4)	135214	11.091
50225466009	SP-4 (6-8)	136309	11.091
50225466010	SP-4 (8-9)	127887	11.085
50225466011	SP-4 (9-10.5)	128007	11.091
50225466015	SP-5 (9-11)	123436	11.091
50225466016	SP-5 (11-13)	128508	11.091
50225466017	SP-5 (11-13) DUP	133250	11.082

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244173CCV Date Analyzed: 06/03/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 10:58

Lab File ID: 060319.B\5PPM.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		65337	4.999	115158	9.201	127674	3.566	118584	6.212
UPPER LIMIT		130674	5.499	230316	9.701	255348	4.066	237168	6.712
LOWER LIMIT		32668.5	4.499	57579	8.701	63837	3.066	59292	5.712
LAB SAMPLE ID	SAMPLE NO.								
50225466018	SP-5 (6-8)	70558	4.999	115938	9.201	135206	3.566	130208	6.212

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244173CCV Date Analyzed: 06/03/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 10:58

Lab File ID: 060319.B\5PPM.D

		AREA PYL	RT
12 HOUR STD		122962	11.091
UPPER LIMIT		245924	11.591
LOWER LIMIT		61481	10.591
LAB SAMPLE ID	SAMPLE NO.		
50225466018	SP-5 (6-8)	136566	11.085

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244172CCV Date Analyzed: 06/04/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 12:00

Lab File ID: 060419.B\5PPM.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		66920	4.999	116873	9.204	130149	3.566	121375	6.212
UPPER LIMIT		133840	5.499	233746	9.704	260298	4.066	242750	6.712
LOWER LIMIT		33460	4.499	58436.5	8.704	65074.5	3.066	60687.5	5.712
LAB SAMPLE ID	SAMPLE NO.								
50225466003	SP-2 (0-2)	74807	4.999	118244	9.201	144780	3.566	136749	6.212

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225466 Contract: 216 College / 19-146

Sample ID : 15244172CCV Date Analyzed: 06/04/2019

Instrument ID: 50MSS3 GC Column: FULL Time Analyzed: 12:00

Lab File ID: 060419.B\5PPM.D

		AREA PYL	RT
12 HOUR STD		121468	11.091
UPPER LIMIT		242936	11.591
LOWER LIMIT		60734	10.591
LAB SAMPLE ID	SAMPLE NO.		
50225466003	SP-2 (0-2)	139528	11.091

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VI SVOA-1

MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS3 GC Column: FULL SDG No.: 50225466

Calibration Date(s): 01/21/2019 01/21/2019 Calibration Time(s): 07:42 09:53

LAB FILE ID

CAL1 = 012119CAL.B\CAL1.D CAL2 = 012119CAL.B\CAL2.D CAL3 = 012119CAL.B\CAL3.D

CAL4 = 012119CAL.B\CAL4.D CAL5 = 012119CAL.B\CAL5.D CAL6 = 012119CAL.B\CAL6.D

CAL7 = 012119CAL.B\CAL7.D CAL8 = 012119CAL.B\CAL8.D CAL9 = 012119CAL.B\CAL9.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acenaphthene	Averaged	1.32665	1.31958	1.29756	1.29407	1.27984	1.29679
Acenaphthylene	Averaged	2.80791	2.44100	2.21441	2.19249	2.19053	2.20169
Anthracene	Averaged	1.28336	1.19560	1.16833	1.15798	1.17637	1.19394
Benzo(a)anthracene	Averaged	1.53368	1.43162	1.27265	1.24218	1.27022	1.25941
Benzo(a)pyrene	Averaged	1.38173	1.38204	1.32003	1.32495	1.42480	1.42013
Benzo(b)fluoranthene	Averaged	1.40505	1.47381	1.49101	1.69104	1.56666	1.74309
Benzo(g,h,i)perylene	Averaged	1.42254	1.52024	1.49470	1.53774	1.55931	1.57742
Benzo(k)fluoranthene	Averaged	1.86330	1.75130	1.65547	1.56410	1.66060	1.55129
Chrysene	Averaged	1.27659	1.25664	1.22718	1.21906	1.22871	1.24069
Dibenz(a,h)anthracene	Averaged	1.28029	1.45600	1.45464	1.48939	1.48830	1.49923
Fluoranthene	Averaged	1.37159	1.35988	1.30945	1.29927	1.31924	1.33141
Fluorene	Averaged	1.66330	1.66749	1.59221	1.58795	1.62542	1.60914
Indeno(1,2,3-cd)pyrene	Averaged	1.58812	1.71351	1.75990	1.75456	1.78581	1.79801
1-Methylnaphthalene	Averaged	0.71758	0.73533	0.70956	0.69985	0.70906	0.71466
2-Methylnaphthalene	Averaged	0.74523	0.75660	0.73287	0.73085	0.74266	0.74559
Naphthalene	Averaged	1.13104	1.11593	1.07502	1.06346	1.06595	1.07261
Phenanthrene	Averaged	1.25127	1.24389	1.15815	1.14978	1.14571	1.16104
Pyrene	Averaged	1.37342	1.38339	1.29752	1.28681	1.29172	1.29507
2-Fluorobiphenyl (S)	Averaged	1.72066	1.73167	1.66205	1.66325	1.68437	1.68091
p-Terphenyl-d14 (S)	Averaged	1.01838	1.02882	0.98168	0.96590	0.96981	0.97755

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV SIM - FORM VI SVOA-2

MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS3 GC Column: FULL SDG No.: 50225466

Calibration Date(s): 01/21/2019 01/21/2019 Calibration Time(s): 07:42 09:53

LAB FILE ID

CAL1 = 012119CAL.B\CAL1.D CAL2 = 012119CAL.B\CAL2.D CAL3 = 012119CAL.B\CAL3.D

CAL4 = 012119CAL.B\CAL4.D CAL5 = 012119CAL.B\CAL5.D CAL6 = 012119CAL.B\CAL6.D

CAL7 = 012119CAL.B\CAL7.D CAL8 = 012119CAL.B\CAL8.D CAL9 = 012119CAL.B\CAL9.D

COMPOUND	CURVE TYPE	CAL7	CAL8	CAL9
Acenaphthene	Averaged	1.31362	1.31100	1.29297
Acenaphthylene	Averaged	2.25269	2.21386	2.23879
Anthracene	Averaged	1.21560	1.21148	1.23776
Benzo(a)anthracene	Averaged	1.27332	1.27274	1.27778
Benzo(a)pyrene	Averaged	1.45870	1.47669	1.49164
Benzo(b)fluoranthene	Averaged	1.78495	1.75380	1.68344
Benzo(g,h,i)perylene	Averaged	1.60108	1.62874	1.58391
Benzo(k)fluoranthene	Averaged	1.58637	1.55630	1.58332
Chrysene	Averaged	1.25432	1.24314	1.25466
Dibenz(a,h)anthracene	Averaged	1.54793	1.55500	1.60920
Fluoranthene	Averaged	1.34886	1.35846	1.37311
Fluorene	Averaged	1.64471	1.62713	1.63783
Indeno(1,2,3-cd)pyrene	Averaged	1.83141	1.86311	1.90655
1-Methylnaphthalene	Averaged	0.72390	0.72606	0.74269
2-Methylnaphthalene	Averaged	0.75572	0.75336	0.76793
Naphthalene	Averaged	1.08131	1.07602	1.08775
Phenanthrene	Averaged	1.17483	1.16538	1.18921
Pyrene	Averaged	1.30417	1.29452	1.30620
2-Fluorobiphenyl (S)	Averaged	1.71251	1.69314	1.71628
p-Terphenyl-d14 (S)	Averaged	0.98339	0.97693	0.97721

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV SIM - FORM VI SVOA-3

MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS3 GC Column: FULL SDG No.: 50225466

Calibration Date(s): 01/21/2019 01/21/2019 Calibration Time(s): 07:42 09:53

LAB FILE ID

CAL1 = 012119CAL.B\CAL1.D CAL2 = 012119CAL.B\CAL2.D CAL3 = 012119CAL.B\CAL3.D

CAL4 = 012119CAL.B\CAL4.D CAL5 = 012119CAL.B\CAL5.D CAL6 = 012119CAL.B\CAL6.D

CAL7 = 012119CAL.B\CAL7.D CAL8 = 012119CAL.B\CAL8.D CAL9 = 012119CAL.B\CAL9.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acenaphthene	Averaged	1.18253			1.30489	
Acenaphthylene	Averaged	9.33046			2.31432	
Anthracene	Averaged	3.25810			1.20033	
Benzo(a)anthracene	Averaged	7.94750			1.31948	
Benzo(a)pyrene	Averaged	4.09980			1.39863	
Benzo(b)fluoranthene	Averaged	9.13322			1.61368	
Benzo(g,h,i)perylene	Averaged	4.02774			1.54730	
Benzo(k)fluoranthene	Averaged	6.71684			1.64859	
Chrysene	Averaged	1.51230			1.24329	
Dibenz(a,h)anthracene	Averaged	5.81669			1.47135	
Fluoranthene	Averaged	1.96834			1.33727	
Fluorene	Averaged	1.84761			1.62717	
Indeno(1,2,3-cd)pyrene	Averaged	4.77560			1.76180	
1-Methylnaphthalene	Averaged	1.56727			0.71700	
2-Methylnaphthalene	Averaged	1.31423			0.74536	
Naphthalene	Averaged	2.27069			1.08517	
Phenanthrene	Averaged	3.55075			1.18126	
Pyrene	Averaged	2.96572			1.31583	
2-Fluorobiphenyl (S)	Averaged	1.53030			1.69357	
p-Terphenyl-d14 (S)	Averaged	2.32764			0.98781	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15244167CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/30/2019 Time: 12:41

Instrument ID: 50MSS3 GC Column: FULL Init. Calib. Date(s): 01/21/2019 01/21/2019

Lab File ID: 053019.B\5PPM.D Init. Calib. Time(s): 07:42 09:53

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.30489	1.29240	0.0500	-0.9571	20.0000
Acenaphthylene	Averaged	2.31432	2.17245	0.0500	-6.1302	20.0000
Anthracene	Averaged	1.20033	1.29449	0.0500	7.8441	20.0000
Benzo(a)anthracene	Averaged	1.31948	1.29436	0.0500	-1.9035	20.0000
Benzo(a)pyrene	Averaged	1.39863	1.30757	0.0500	-6.5110	20.0000
Benzo(b)fluoranthene	Averaged	1.61368	1.55907	0.0500	-3.3843	20.0000
Benzo(g,h,i)perylene	Averaged	1.54730	1.40915	0.0500	-8.9280	20.0000
Benzo(k)fluoranthene	Averaged	1.64859	1.44135	0.0500	-12.5711	20.0000
Chrysene	Averaged	1.24329	1.37226	0.0500	10.3731	20.0000
Dibenz(a,h)anthracene	Averaged	1.47135	1.30727	0.0500	-11.1513	20.0000
Fluoranthene	Averaged	1.33727	1.42117	0.0500	6.2742	20.0000
Fluorene	Averaged	1.62717	1.52569	0.0500	-6.2365	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.76180	1.58200	0.0500	-10.2054	20.0000
1-Methylnaphthalene	Averaged	0.71700	0.75595	0.0500	5.4320	20.0000
2-Methylnaphthalene	Averaged	0.74536	0.78565	0.0500	5.4051	20.0000
Naphthalene	Averaged	1.08517	1.17156	0.0500	7.9613	20.0000
Phenanthrene	Averaged	1.18126	1.29192	0.0500	9.3685	20.0000
Pyrene	Averaged	1.31583	1.45246	0.0500	10.3839	20.0000
2-Fluorobiphenyl (S)	Averaged	1.69357	1.62518	0.0500	-4.0381	20.0000
p-Terphenyl-d14 (S)	Averaged	0.98781	1.06951	0.0500	8.2712	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15244171CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 06/02/2019 Time: 07:35

Instrument ID: 50MSS3 GC Column: FULL Init. Calib. Date(s): 01/21/2019 01/21/2019

Lab File ID: 060219.B\5PPM.D Init. Calib. Time(s): 07:42 09:53

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.30489	1.33645	0.0500	2.4190	20.0000
Acenaphthylene	Averaged	2.31432	2.27045	0.0500	-1.8957	20.0000
Anthracene	Averaged	1.20033	1.30753	0.0500	8.9308	20.0000
Benzo(a)anthracene	Averaged	1.31948	1.38293	0.0500	4.8087	20.0000
Benzo(a)pyrene	Averaged	1.39863	1.37675	0.0500	-1.5647	20.0000
Benzo(b)fluoranthene	Averaged	1.61368	1.49115	0.0500	-7.5927	20.0000
Benzo(g,h,i)perylene	Averaged	1.54730	1.44612	0.0500	-6.5392	20.0000
Benzo(k)fluoranthene	Averaged	1.64859	1.60093	0.0500	-2.8910	20.0000
Chrysene	Averaged	1.24329	1.38369	0.0500	11.2925	20.0000
Dibenz(a,h)anthracene	Averaged	1.47135	1.41032	0.0500	-4.1475	20.0000
Fluoranthene	Averaged	1.33727	1.43789	0.0500	7.5245	20.0000
Fluorene	Averaged	1.62717	1.61893	0.0500	-0.5061	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.76180	1.68549	0.0500	-4.3314	20.0000
1-Methylnaphthalene	Averaged	0.71700	0.77416	0.0500	7.9723	20.0000
2-Methylnaphthalene	Averaged	0.74536	0.81296	0.0500	9.0697	20.0000
Naphthalene	Averaged	1.08517	1.21163	0.0500	11.6535	20.0000
Phenanthrene	Averaged	1.18126	1.33408	0.0500	12.9372	20.0000
Pyrene	Averaged	1.31583	1.52081	0.0500	15.5785	20.0000
2-Fluorobiphenyl (S)	Averaged	1.69357	1.67753	0.0500	-0.9469	20.0000
p-Terphenyl-d14 (S)	Averaged	0.98781	1.11720	0.0500	13.0988	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15244173CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 06/03/2019 Time: 10:58

Instrument ID: 50MSS3 GC Column: FULL Init. Calib. Date(s): 01/21/2019 01/21/2019

Lab File ID: 060319.B\5PPM.D Init. Calib. Time(s): 07:42 09:53

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.30489	1.34290	0.0500	2.9130	20.0000
Acenaphthylene	Averaged	2.31432	2.26143	0.0500	-2.2855	20.0000
Anthracene	Averaged	1.20033	1.29765	0.0500	8.1072	20.0000
Benzo(a)anthracene	Averaged	1.31948	1.35364	0.0500	2.5887	20.0000
Benzo(a)pyrene	Averaged	1.39863	1.32486	0.0500	-5.2744	20.0000
Benzo(b)fluoranthene	Averaged	1.61368	1.40732	0.0500	-12.7879	20.0000
Benzo(g,h,i)perylene	Averaged	1.54730	1.42427	0.0500	-7.9512	20.0000
Benzo(k)fluoranthene	Averaged	1.64859	1.61175	0.0500	-2.2347	20.0000
Chrysene	Averaged	1.24329	1.38524	0.0500	11.4176	20.0000
Dibenz(a,h)anthracene	Averaged	1.47135	1.34602	0.0500	-8.5180	20.0000
Fluoranthene	Averaged	1.33727	1.42910	0.0500	6.8668	20.0000
Fluorene	Averaged	1.62717	1.59821	0.0500	-1.7800	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.76180	1.62747	0.0500	-7.6248	20.0000
1-Methylnaphthalene	Averaged	0.71700	0.77086	0.0500	7.5121	20.0000
2-Methylnaphthalene	Averaged	0.74536	0.80796	0.0500	8.3993	20.0000
Naphthalene	Averaged	1.08517	1.21032	0.0500	11.5336	20.0000
Phenanthrene	Averaged	1.18126	1.34370	0.0500	13.7514	20.0000
Pyrene	Averaged	1.31583	1.49909	0.0500	13.9275	20.0000
2-Fluorobiphenyl (S)	Averaged	1.69357	1.69314	0.0500	-0.0251	20.0000
p-Terphenyl-d14 (S)	Averaged	0.98781	1.10761	0.0500	12.1281	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15244172CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 06/04/2019 Time: 12:00

Instrument ID: 50MSS3 GC Column: FULL Init. Calib. Date(s): 01/21/2019 01/21/2019

Lab File ID: 060419.B\5PPM.D Init. Calib. Time(s): 07:42 09:53

SDG No.: 50225466

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.30489	1.33501	0.0500	2.3086	20.0000
Acenaphthylene	Averaged	2.31432	2.23432	0.0500	-3.4567	20.0000
Anthracene	Averaged	1.20033	1.28366	0.0500	6.9419	20.0000
Benzo(a)anthracene	Averaged	1.31948	1.33659	0.0500	1.2967	20.0000
Benzo(a)pyrene	Averaged	1.39863	1.32996	0.0500	-4.9104	20.0000
Benzo(b)fluoranthene	Averaged	1.61368	1.45782	0.0500	-9.6587	20.0000
Benzo(g,h,i)perylene	Averaged	1.54730	1.45987	0.0500	-5.6506	20.0000
Benzo(k)fluoranthene	Averaged	1.64859	1.61522	0.0500	-2.0245	20.0000
Chrysene	Averaged	1.24329	1.39017	0.0500	11.8135	20.0000
Dibenz(a,h)anthracene	Averaged	1.47135	1.33750	0.0500	-9.0966	20.0000
Fluoranthene	Averaged	1.33727	1.42120	0.0500	6.2762	20.0000
Fluorene	Averaged	1.62717	1.60897	0.0500	-1.1187	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.76180	1.64155	0.0500	-6.8256	20.0000
1-Methylnaphthalene	Averaged	0.71700	0.77424	0.0500	7.9827	20.0000
2-Methylnaphthalene	Averaged	0.74536	0.80959	0.0500	8.6171	20.0000
Naphthalene	Averaged	1.08517	1.21302	0.0500	11.7818	20.0000
Phenanthrene	Averaged	1.18126	1.34475	0.0500	13.8405	20.0000
Pyrene	Averaged	1.31583	1.50040	0.0500	14.0270	20.0000
2-Fluorobiphenyl (S)	Averaged	1.69357	1.69248	0.0500	-0.0641	20.0000
p-Terphenyl-d14 (S)	Averaged	0.98781	1.11898	0.0500	13.2797	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Prep Log Report

Batch Information: OEXT 502966 8270 COMBO (S)

Template Version: EF-IN-Q-388-Rev.03 (23Jun2017)

Prep Method	EPA 3546	Analysis Method	EPA 8270 by SIM	Instrument	50BALJ	Extracted By	MJT
Extracted Date/Time	05/29/2019 09:25:17:519	Spiked By	KRM	Spiked By Date/Time	05/29/2019 09:25:42:191	Vialed By	KRM
Vialed By Date	05/29/2019 15:59:59:894	Methylene Chloride	208699	Ottawa Sand	199033	Sodium Sulfate	202028
Filter Paper	78278	3:1 Methylene Chloride/Acetone	207860	Reviewed By		Reviewed By Date	
Batch Notes							

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Sample Notes	8270C-SPK (mL)	8270C-SS (mL)
8270COMS_P	BLANK	**2320950**	30.2	1			177522 (1)
8270COMS_P	LCS	**2320951**	30	1		194954 (1)	177522 (1)
8270COMS_P	PS	**50225466001**	30	1			177522 (1)
8270COMS_P	PS	**50225466002**	30.1	1			177522 (1)
8270COMS_P	PS	**50225466003**	30.2	1			177522 (1)
8270COMS_P	PS	**50225466004**	30.3	1			177522 (1)
8270COMS_P	RQS	**50225466005**	30.3	1			177522 (1)
8270COMS_P	MS	**2320952**	30.1	1		194954 (1)	177522 (1)
8270COMS_P	MSD	**2320953**	30	1		194954 (1)	177522 (1)
8270COMS_P	PS	**50225466006**	30.2	1			177522 (1)
8270COMS_P	PS	**50225466009**	30.3	1			177522 (1)
8270COMS_P	PS	**50225466010**	30	1			177522 (1)
8270COMS_P	PS	**50225466011**	30.4	1			177522 (1)
8270COMS_P	PS	**50225466015**	30.2	1			177522 (1)
8270COMS_P	PS	**50225466016**	30.3	1			177522 (1)
8270COMS_P	PS	**50225466017**	30.3	1			177522 (1)
8270COMS_P	PS	**50225466018**	30.2	1			177522 (1)
8270COMS_P	PS	**50225973018**	30	1			177522 (1)
8270COMS_P	PS	**50225973019**	30	1			177522 (1)
8270COMS_P	PS	**50225973020**	30.2	1			177522 (1)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Weight (g)	Final Volume (mL)	Sample Notes	8270C-SPK (mL)	8270C-SS (mL)
8270COMS_P	PS	**50225973021**	30.2	5			177522 (1)
8270COMS_P	PS	**50225973022**	30	1			177522 (1)
8270COMS_P	PS	**50225973023**	30.1	1			205662 (1)
8270COMS_P	PS	**50225973024**	30.2	5			205662 (1)

Standard Notes:

177522: Sim/Scan Combo Surr Stock (12) **194954: 8270 combo spike (7)** **205662: Sim/Scan Combo Surr Stock (10) 25 mL**

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS3.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [S]: MeCl2 Lot # 133555
ISTD lot: 182042:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/cal5.d	CAL5,192868:1	S/28003	CALIB_5	1	8270csim	1/21/19	07:42	JCM	good
1/cal1.d	CAL1,192864:1	S/28003	CALIB_1	1	8270csim	1/21/19	07:58	JCM	
1/cal2.d	CAL2,192865:1	S/28003	CALIB_2	1	8270csim	1/21/19	08:14	JCM	
1/cal3.d	CAL3,192866:1	S/28003	CALIB_3	1	8270csim	1/21/19	08:31	JCM	
1/cal4.d	CAL4,192867:1	S/28003	CALIB_4	1	8270csim	1/21/19	08:47	JCM	
1/cal6.d	CAL6,192869:1	S/28003	CALIB_6	1	8270csim	1/21/19	09:04	JCM	
1/cal7.d	CAL7,192870:1	S/28003	CALIB_7	1	8270csim	1/21/19	09:20	JCM	
1/cal8.d	CAL8,192871:1	S/28003	CALIB_8	1	8270csim	1/21/19	09:36	JCM	
1/cal9.d	CAL9,192872:1	S/28003	CALIB_9	1	8270csim	1/21/19	09:53	JCM	
1/icv.d	ICV,192873:1	S/28003	ICV	1	8270csim	1/21/19	10:09	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\012119cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:34 01/29/2019

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS3.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [S]: MeCl2 Lot # 133555
ISTD lot: 203727:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm.d	CCV,201754:1	S/28003	CCALIB_5	1	8270csim	5/30/19	12:41 ✓	JCM	good
1/2320950.d	2320950	S/28856	BLANK	1	8270csim	5/30/19	15:26	JCM	
1/2320951.d	2320951	S/28856	LCS	1	8270csim	5/30/19	15:42	JCM	
1/50225973018x.d	50225973018X5	S/28856	SAMPLE	5	8270csim	5/30/19	15:59	JCM	
1/50225973019x.d	50225973019X5	S/28856	SAMPLE	5	8270csim	5/30/19	16:15	JCM	
1/50225973020x.d	50225973020X5	S/28856	SAMPLE	5	8270csim	5/30/19	16:31	JCM	
1/50225973021x.d	50225973021X5	S/28856	SAMPLE	5	8270csim	5/30/19	16:48	JCM	
1/50225973022x.d	50225973022X5	S/28856	SAMPLE	5	8270csim	5/30/19	17:04	JCM	
1/50225973023x.d	50225973023X5	S/28856	SAMPLE	5	8270csim	5/30/19	17:21	JCM	
1/50225973024x.d	50225973024X5	S/28856	SAMPLE	5	8270csim	5/30/19	17:37	JCM	
1/50225205016.d	50225205016	S/28827	SAMPLE	1	8270csim	5/30/19	19:50	JCM	
1/50225398001.d	50225398001	S/28842	SAMPLE	1	8270csim	5/30/19	20:06	JCM	
1/2320187.d	2320187	S/28842	MS	1	8270csim	5/30/19	20:23	JCM	
1/2320188.d	2320188	S/28842	MSD	1	8270csim	5/30/19	20:39	JCM	
1/50225398002.d	50225398002	S/28842	SAMPLE	1	8270csim	5/30/19	20:55	JCM	
1/50225398003.d	50225398003	S/28842	SAMPLE	1	8270csim	5/30/19	21:12	JCM	
1/50225398004.d	50225398004	S/28842	SAMPLE	1	8270csim	5/30/19	21:28	JCM	
1/50225398005.d	50225398005	S/28842	SAMPLE	1	8270csim	5/30/19	21:45	JCM	
1/50225398006.d	50225398006	S/28842	SAMPLE	1	8270csim	5/30/19	22:01	JCM	
1/50225398007.d	50225398007	S/28842	SAMPLE	1	8270csim	5/30/19	22:18	JCM	
1/50225398008.d	50225398008	S/28842	SAMPLE	1	8270csim	5/30/19	22:34	JCM	
1/50225398009.d	50225398009	S/28842	SAMPLE	1	8270csim	5/30/19	22:51	JCM	
1/50225398010.d	50225398010	S/28842	SAMPLE	1	8270csim	5/30/19	23:07	JCM	
1/50225398011x.d	50225398011X5	S/28842	SAMPLE	5	8270csim	5/30/19	23:24	JCM	
1/50225398012.d	50225398012	S/28842	SAMPLE	1	8270csim	5/30/19	23:40	JCM	
1/50225710001.d	50225710001	S/28842	SAMPLE	1	8270csim	5/30/19	23:56	JCM	
1/50225710002x.d	50225710002X5	S/28842	SAMPLE	5	8270csim	5/31/19	00:13 ✓	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\053019.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:44 06/03/2019

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS3.i
Column Rtx-5MS 15m X 0.25mm — Method: Low-Level PAH Report by SW-846 Meth
Misc. Prep Info [S]: MeCl2 Lot # 133555
ISTD lot: 203727:1 — Surr. lot:
Lot:
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm.d	CCV,201754:1	S/28003	CCALIB_5	1	8270csim	6/02/19	07:35	JCM	good
1/50225634008.d	50225634008	S/28855	SAMPLE	1	8270csim	6/02/19	10:30	JCM	
1/50225634009.d	50225634009	S/28855	SAMPLE	1	8270csim	6/02/19	10:46	JCM	
1/50225634010.d	50225634010	S/28855	SAMPLE	1	8270csim	6/02/19	11:03	JCM	
1/50225634011.d	50225634011	S/28855	SAMPLE	1	8270csim	6/02/19	11:19	JCM	
1/50225634012.d	50225634012	S/28855	SAMPLE	1	8270csim	6/02/19	11:36	JCM	
1/50225634013.d	50225634013	S/28855	SAMPLE	1	8270csim	6/02/19	11:52	JCM	
1/50225653001.d	50225653001	S/28855	SAMPLE	1	8270csim	6/02/19	12:09	JCM	
1/50225653002.d	50225653002	S/28855	SAMPLE	1	8270csim	6/02/19	12:25	JCM	
1/50225653003.d	50225653003	S/28855	SAMPLE	1	8270csim	6/02/19	12:41	JCM	
1/50226254001.d	50226254001	S/28855	SAMPLE	1	8270csim	6/02/19	12:58	JCM	
1/50226254002.d	50226254002	S/28855	SAMPLE	1	8270csim	6/02/19	13:14	JCM	
1/50226254003.d	50226254003	S/28855	SAMPLE	1	8270csim	6/02/19	13:31	JCM	
1/50226254004.d	50226254004	S/28855	SAMPLE	1	8270csim	6/02/19	13:47	JCM	
1/50226254005.d	50226254005	S/28855	SAMPLE	1	8270csim	6/02/19	14:04	JCM	
1/50226254006.d	50226254006	S/28855	SAMPLE	1	8270csim	6/02/19	14:20	JCM	
1/50226254007.d	50226254007	S/28855	SAMPLE	1	8270csim	6/02/19	14:36	JCM	
1/50226254008.d	50226254008	S/28855	SAMPLE	1	8270csim	6/02/19	14:53	JCM	
1/50226254009.d	50226254009	S/28855	SAMPLE	1	8270csim	6/02/19	15:09	JCM	
1/2322273.d	2322273	S/28855	MS	1	8270csim	6/02/19	15:26	JCM	
1/2322274.d	2322274	S/28855	MSD	1	8270csim	6/02/19	15:42	JCM	
1/50225466001x.d	50225466001X5	S/28856	SAMPLE	5	8270csim	6/02/19	15:59	JCM	
1/50225466002x.d	50225466002X5	S/28856	SAMPLE	5	8270csim	6/02/19	16:15	JCM	
1/50225466003x.d	50225466003X5	S/28856	SAMPLE	5	8270csim	6/02/19	16:31	JCM	
1/50225466004x.d	50225466004X5	S/28856	SAMPLE	5	8270csim	6/02/19	16:48	JCM	
1/50225466005x.d	50225466005X10	S/28856	SAMPLE	10	8270csim	6/02/19	17:04	JCM	
1/2320952x.d	2320952X10	S/28856	MS	10	8270csim	6/02/19	17:21	JCM	
1/2320953x.d	2320953X10	S/28856	MSD	10	8270csim	6/02/19	17:37	JCM	
1/50225466006.d	50225466006	S/28856	SAMPLE	1	8270csim	6/02/19	17:53	JCM	
1/50225466009.d	50225466009	S/28856	SAMPLE	1	8270csim	6/02/19	18:10	JCM	
1/50225466010.d	50225466010	S/28856	SAMPLE	1	8270csim	6/02/19	18:26	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\060219.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:07 06/04/2019 — Reviewed By/Date: _____

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50MSS3.i

Column Rtx-5MS 15m X 0.25mm Method: Low-Level PAH Report by SW-846 Method 8270 SIM

Misc. Prep Info [S]: MeCl2 Lot # 133555

ISTD lot: 203727:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50225466011.d	50225466011	S/28856	SAMPLE	1	8270csim	6/02/19	18:43	JCM	
1/50225466015.d	50225466015	S/28856	SAMPLE	1	8270csim	6/02/19	18:59	JCM	
1/50225466016.d	50225466016	S/28856	SAMPLE	1	8270csim	6/02/19	19:16	JCM	
1/50225466017.d	50225466017	S/28856	SAMPLE	1	8270csim	6/02/19	19:32	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\060219.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 14:07 06/04/2019

Reviewed By/Date: _____

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS3.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [S]: MeCl2 Lot # 133555
ISTD lot: 203727:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm.d	CCV,201754:1	S/28003	CCALIB_5	1	8270csim	6/03/19	10:58	JCM	good
1/2325125.d	2325125	S/28880	BLANK	1	8270csim	6/03/19	12:13	JCM	
1/2325126.d	2325126	S/28880	LCS	1	8270csim	6/03/19	12:30	JCM	
1/50226109001.d	50226109001	S/28880	SAMPLE	1	8270csim	6/03/19	12:46	JCM	
1/50226112006.d	50226112006	S/28880	SAMPLE	1	8270csim	6/03/19	13:02	JCM	
1/50225466018.d	50225466018	S/28856	SAMPLE	1	8270csim	6/03/19	13:19	JCM	
1/50225710003x5.d	50225710003X5	S/28878	SAMPLE	5	8270csim	6/03/19	13:35	JCM	
1/50226112006x.d	50226112006X10	S/28880	SAMPLE	10	8270csim	6/03/19	14:25	JCM	
1/50226254010.d	50226254010	S/28878	SAMPLE	1	8270csim	6/03/19	14:41	JCM	
1/50226254011.d	50226254011	S/28878	SAMPLE	1	8270csim	6/03/19	14:57	JCM	
1/50226254012.d	50226254012	S/28878	SAMPLE	1	8270csim	6/03/19	15:14	JCM	
1/2325725.d	2325725	S/28883	BLANK	1	8270csim	6/03/19	19:20	JCM	
1/2325726.d	2325726	S/28883	LCS	1	8270csim	6/03/19	19:36	JCM	
1/50226671001.d	50226671001	S/28883	SAMPLE	1	8270csim	6/03/19	19:52	JCM	
1/2325727.d	2325727	S/28883	MS	1	8270csim	6/03/19	20:09	JCM	
1/2325728.d	2325728	S/28883	MSD	1	8270csim	6/03/19	20:25	JCM	
1/50226671002x.d	50226671002X5	S/28883	SAMPLE	5	8270csim	6/03/19	20:42	JCM	
1/50226671003.d	50226671003	S/28883	SAMPLE	1	8270csim	6/03/19	20:58	JCM	
1/50226671004.d	50226671004	S/28883	SAMPLE	1	8270csim	6/03/19	21:14	JCM	
1/50226671005x.d	50226671005X5	S/28883	SAMPLE	5	8270csim	6/03/19	21:31	JCM	
1/50226671006.d	50226671006	S/28883	SAMPLE	1	8270csim	6/03/19	21:47	JCM	
1/50226671007.d	50226671007	S/28883	SAMPLE	1	8270csim	6/03/19	22:04	JCM	
1/50226671008.d	50226671008	S/28883	SAMPLE	1	8270csim	6/03/19	22:20	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\060319.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:43 06/04/2019

Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS3.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [S]: MeCl2 Lot # 133555
ISTD lot: 203727:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/5ppm.d	CCV,201754:1	S/28003	CCALIB_5	1	8270csim	6/04/19	12:00	JCM	good
1/2323923.d	2323923	S/28885	BLANK	1	8270csim	6/04/19	12:32	JCM	
1/2323924.d	2323924	S/28885	LCS	1	8270csim	6/04/19	12:49	JCM	
1/50226525001.d	50226525001	S/28885	SAMPLE	1	8270csim	6/04/19	13:05	JCM	
1/2323925.d	2323925	S/28885	MS	1	8270csim	6/04/19	13:22	JCM	
1/2323926.d	2323926	S/28885	MSD	1	8270csim	6/04/19	13:38	JCM	
1/50225466003.d	50225466003	S/28856	SAMPLE	1	8270csim	6/04/19	13:55	JCM	
1/50226671002.d	50226671002	S/28883	SAMPLE	1	8270csim	6/04/19	14:11	JCM	
1/50226157013x.d	50226157013X5	S/28878	SAMPLE	5	8270csim	6/04/19	18:33	JCM	
1/50226157014x.d	50226157014X5	S/28878	SAMPLE	5	8270csim	6/04/19	18:49	JCM	
1/50226157015x.d	50226157015X5	S/28878	SAMPLE	5	8270csim	6/04/19	19:05	JCM	
1/50226157016x.d	50226157016X10	S/28878	SAMPLE	10	8270csim	6/04/19	19:22	JCM	
1/50226157017.d	50226157017	S/28878	SAMPLE	1	8270csim	6/04/19	19:38	JCM	
1/50226157018x.d	50226157018X5	S/28878	SAMPLE	5	8270csim	6/04/19	19:55	JCM	
1/50226157019x.d	50226157019X5	S/28878	SAMPLE	5	8270csim	6/04/19	20:11	JCM	
1/50226157020x.d	50226157020X5	S/28878	SAMPLE	5	8270csim	6/04/19	20:28	JCM	
1/50226157021x.d	50226157021X5	S/28878	SAMPLE	5	8270csim	6/04/19	20:44	JCM	
1/50226157022.d	50226157022	S/28878	SAMPLE	1	8270csim	6/04/19	21:00	JCM	
1/50226157023x.d	50226157023X5	S/28878	SAMPLE	5	8270csim	6/04/19	21:17	JCM	
1/2323610.d	2323610	S/28899	BLANK	1	8270csim	6/04/19	21:33	JCM	
1/2323611.d	2323611	S/28899	LCS	1	8270csim	6/04/19	21:50	JCM	
1/50225765001x.d	50225765001X10	S/28899	SAMPLE	10	8270csim	6/04/19	22:06	JCM	
1/2323612x.d	2323612X10	S/28899	MS	1	8270csim	6/04/19	22:23	JCM	
1/2323613x.d	2323613X10	S/28899	MSD	10	8270csim	6/04/19	22:39	JCM	
1/50225765002.d	50225765002	S/28899	SAMPLE	1	8270csim	6/04/19	22:56	JCM	
1/50225765005x.d	50225765005X5	S/28899	SAMPLE	5	8270csim	6/04/19	23:12	JCM	
1/50225765006x.d	50225765006X5	S/28899	SAMPLE	5	8270csim	6/04/19	23:29	JCM	
1/50225765003x.d	50225765003X5	S/28899	SAMPLE	5	8270csim	6/04/19	23:45	JCM	

File Path 1: \\192.168.50.6\chem\50MSS3.i\060419.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:57 06/06/2019

Reviewed By/Date: _____ Page: 1 of 1

SAMPLE NO.

SP-1 (3-5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466001 Percent Moisture: 16.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.25	U	mg/kg	1	05/28/2019 16:50
7440-38-2	Arsenic	12.0		mg/kg	1	05/28/2019 16:50
7440-39-3	Barium	72.6		mg/kg	1	05/28/2019 16:50
7440-41-7	Beryllium	0.91		mg/kg	1	05/28/2019 16:50
7440-43-9	Cadmium	0.18	J	mg/kg	1	05/28/2019 16:50
7440-47-3	Chromium	13.6		mg/kg	1	05/28/2019 16:50
7440-50-8	Copper	17.8		mg/kg	1	05/28/2019 16:50
7439-92-1	Lead	16.3		mg/kg	1	05/28/2019 16:50
7440-02-0	Nickel	17.0		mg/kg	1	05/28/2019 16:50
7782-49-2	Selenium	0.64	J	mg/kg	1	05/28/2019 16:50
7440-22-4	Silver	<0.30	U	mg/kg	1	05/28/2019 16:50
7440-28-0	Thallium	1.6		mg/kg	1	05/28/2019 16:50
7440-66-6	Zinc	37.0		mg/kg	1	05/28/2019 16:50

SAMPLE NO.

SP-1 (5-7)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466002 Percent Moisture: 19.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.27	U	mg/kg	1	05/28/2019 16:53
7440-38-2	Arsenic	8.2		mg/kg	1	05/28/2019 16:53
7440-39-3	Barium	49.1		mg/kg	1	05/28/2019 16:53
7440-41-7	Beryllium	1.4		mg/kg	1	05/28/2019 16:53
7440-43-9	Cadmium	0.13	J	mg/kg	1	05/28/2019 16:53
7440-47-3	Chromium	8.7		mg/kg	1	05/28/2019 16:53
7440-50-8	Copper	37.2		mg/kg	1	05/28/2019 16:53
7439-92-1	Lead	43.9		mg/kg	1	05/28/2019 16:53
7440-02-0	Nickel	19.1		mg/kg	1	05/28/2019 16:53
7782-49-2	Selenium	1.2		mg/kg	1	05/28/2019 16:53
7440-22-4	Silver	<0.32	U	mg/kg	1	05/28/2019 16:53
7440-28-0	Thallium	0.95	J	mg/kg	1	05/28/2019 16:53
7440-66-6	Zinc	49.9		mg/kg	1	05/28/2019 16:53

SAMPLE NO.

SP-2 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466003 Percent Moisture: 3.4

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.24	U	mg/kg	1	05/28/2019 16:55
7440-38-2	Arsenic	0.97	J	mg/kg	1	05/28/2019 16:55
7440-39-3	Barium	42.2		mg/kg	1	05/28/2019 16:55
7440-41-7	Beryllium	<0.020	U	mg/kg	1	05/28/2019 16:55
7440-43-9	Cadmium	0.37	J	mg/kg	1	05/28/2019 16:55
7440-47-3	Chromium	7.1		mg/kg	1	05/28/2019 16:55
7440-50-8	Copper	2.2		mg/kg	1	05/28/2019 16:55
7439-92-1	Lead	2.1		mg/kg	1	05/28/2019 16:55
7440-02-0	Nickel	8.6		mg/kg	1	05/28/2019 16:55
7782-49-2	Selenium	<0.37	U	mg/kg	1	05/28/2019 16:55
7440-22-4	Silver	0.68		mg/kg	1	05/28/2019 16:55
7440-28-0	Thallium	<0.24	U	mg/kg	1	05/28/2019 16:55
7440-66-6	Zinc	22.0		mg/kg	1	05/28/2019 16:55

SAMPLE NO.

SP-2 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466004 Percent Moisture: 8.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.25	U	mg/kg	1	05/28/2019 16:57
7440-38-2	Arsenic	14.2		mg/kg	1	05/28/2019 16:57
7440-39-3	Barium	75.2		mg/kg	1	05/28/2019 16:57
7440-41-7	Beryllium	0.46	J	mg/kg	1	05/28/2019 16:57
7440-43-9	Cadmium	0.26	J	mg/kg	1	05/28/2019 16:57
7440-47-3	Chromium	15.8		mg/kg	1	05/28/2019 16:57
7440-50-8	Copper	9.1		mg/kg	1	05/28/2019 16:57
7439-92-1	Lead	14.7		mg/kg	1	05/28/2019 16:57
7440-02-0	Nickel	11.2		mg/kg	1	05/28/2019 16:57
7782-49-2	Selenium	<0.38	U	mg/kg	1	05/28/2019 16:57
7440-22-4	Silver	<0.29	U	mg/kg	1	05/28/2019 16:57
7440-28-0	Thallium	0.86	J	mg/kg	1	05/28/2019 16:57
7440-66-6	Zinc	33.1		mg/kg	1	05/28/2019 16:57

SAMPLE NO.

SP-3 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466005 Percent Moisture: 16.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.26	U	mg/kg	1	05/28/2019 16:59
7440-38-2	Arsenic	6.3		mg/kg	1	05/28/2019 16:59
7440-39-3	Barium	301		mg/kg	1	05/28/2019 16:59
7440-41-7	Beryllium	0.51	J	mg/kg	1	05/28/2019 16:59
7440-43-9	Cadmium	0.34	J	mg/kg	1	05/28/2019 16:59
7440-47-3	Chromium	13.3		mg/kg	1	05/28/2019 16:59
7440-50-8	Copper	17.6		mg/kg	1	05/28/2019 16:59
7439-92-1	Lead	96.5		mg/kg	1	05/28/2019 16:59
7440-02-0	Nickel	13.2		mg/kg	1	05/28/2019 16:59
7782-49-2	Selenium	<0.40	U	mg/kg	1	05/28/2019 16:59
7440-22-4	Silver	<0.30	U	mg/kg	1	05/28/2019 16:59
7440-28-0	Thallium	0.83	J	mg/kg	1	05/28/2019 16:59
7440-66-6	Zinc	97.4		mg/kg	1	05/28/2019 16:59

SAMPLE NO.

SP-3 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466006 Percent Moisture: 22.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.28	U	mg/kg	1	05/28/2019 17:10
7440-38-2	Arsenic	13.6		mg/kg	1	05/28/2019 17:10
7440-39-3	Barium	72.8		mg/kg	1	05/28/2019 17:10
7440-41-7	Beryllium	0.77		mg/kg	1	05/28/2019 17:10
7440-43-9	Cadmium	0.13	J	mg/kg	1	05/28/2019 17:10
7440-47-3	Chromium	19.2		mg/kg	1	05/28/2019 17:10
7440-50-8	Copper	22.1		mg/kg	1	05/28/2019 17:10
7439-92-1	Lead	20.0		mg/kg	1	05/28/2019 17:10
7440-02-0	Nickel	15.8		mg/kg	1	05/28/2019 17:10
7782-49-2	Selenium	<0.44	U	mg/kg	1	05/28/2019 17:10
7440-22-4	Silver	<0.33	U	mg/kg	1	05/28/2019 17:10
7440-28-0	Thallium	1.1	J	mg/kg	1	05/28/2019 17:10
7440-66-6	Zinc	49.8		mg/kg	1	05/28/2019 17:10

SAMPLE NO.

SP-4 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466007 Percent Moisture: 18.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.26	U	mg/kg	1	05/28/2019 17:17
7440-38-2	Arsenic	7.7		mg/kg	1	05/28/2019 17:17
7440-39-3	Barium	187		mg/kg	1	05/28/2019 17:17
7440-41-7	Beryllium	0.60		mg/kg	1	05/28/2019 17:17
7440-43-9	Cadmium	0.63		mg/kg	1	05/28/2019 17:17
7440-47-3	Chromium	17.3		mg/kg	1	05/28/2019 17:17
7440-50-8	Copper	16.3		mg/kg	1	05/28/2019 17:17
7439-92-1	Lead	44.7		mg/kg	1	05/28/2019 17:17
7440-02-0	Nickel	12.8		mg/kg	1	05/28/2019 17:17
7782-49-2	Selenium	0.50	J	mg/kg	1	05/28/2019 17:17
7440-22-4	Silver	<0.31	U	mg/kg	1	05/28/2019 17:17
7440-28-0	Thallium	0.72	J	mg/kg	1	05/28/2019 17:17
7440-66-6	Zinc	111		mg/kg	1	05/28/2019 17:17

SAMPLE NO.

SP-4 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466008 Percent Moisture: 21.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.28	U	mg/kg	1	05/28/2019 17:19
7440-38-2	Arsenic	18.5		mg/kg	1	05/28/2019 17:19
7440-39-3	Barium	98.4		mg/kg	1	05/28/2019 17:19
7440-41-7	Beryllium	0.91		mg/kg	1	05/28/2019 17:19
7440-43-9	Cadmium	0.18	J	mg/kg	1	05/28/2019 17:19
7440-47-3	Chromium	22.5		mg/kg	1	05/28/2019 17:19
7440-50-8	Copper	26.4		mg/kg	1	05/28/2019 17:19
7439-92-1	Lead	15.1		mg/kg	1	05/28/2019 17:19
7440-02-0	Nickel	15.9		mg/kg	1	05/28/2019 17:19
7782-49-2	Selenium	<0.44	U	mg/kg	1	05/28/2019 17:19
7440-22-4	Silver	<0.33	U	mg/kg	1	05/28/2019 17:19
7440-28-0	Thallium	0.84	J	mg/kg	1	05/28/2019 17:19
7440-66-6	Zinc	57.4		mg/kg	1	05/28/2019 17:19

SAMPLE NO.

SP-5 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466012 Percent Moisture: 12.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	0.23	J	mg/kg	1	05/28/2019 17:21
7440-38-2	Arsenic	6.1		mg/kg	1	05/28/2019 17:21
7440-39-3	Barium	147		mg/kg	1	05/28/2019 17:21
7440-41-7	Beryllium	0.54		mg/kg	1	05/28/2019 17:21
7440-43-9	Cadmium	0.20	J	mg/kg	1	05/28/2019 17:21
7440-47-3	Chromium	14.9		mg/kg	1	05/28/2019 17:21
7440-50-8	Copper	12.1		mg/kg	1	05/28/2019 17:21
7439-92-1	Lead	107		mg/kg	1	05/28/2019 17:21
7440-02-0	Nickel	9.3		mg/kg	1	05/28/2019 17:21
7782-49-2	Selenium	<0.35	U	mg/kg	1	05/28/2019 17:21
7440-22-4	Silver	<0.27	U	mg/kg	1	05/28/2019 17:21
7440-28-0	Thallium	0.59	J	mg/kg	1	05/28/2019 17:21
7440-66-6	Zinc	57.5		mg/kg	1	05/28/2019 17:21

SAMPLE NO.

SP-5 (0-2) DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466013 Percent Moisture: 12.1

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.23	U	mg/kg	1	05/28/2019 17:23
7440-38-2	Arsenic	7.5		mg/kg	1	05/28/2019 17:23
7440-39-3	Barium	136		mg/kg	1	05/28/2019 17:23
7440-41-7	Beryllium	0.66		mg/kg	1	05/28/2019 17:23
7440-43-9	Cadmium	0.14	J	mg/kg	1	05/28/2019 17:23
7440-47-3	Chromium	13.9		mg/kg	1	05/28/2019 17:23
7440-50-8	Copper	116		mg/kg	1	05/28/2019 17:23
7439-92-1	Lead	95.3		mg/kg	1	05/28/2019 17:23
7440-02-0	Nickel	10.5		mg/kg	1	05/28/2019 17:23
7782-49-2	Selenium	<0.36	U	mg/kg	1	05/28/2019 17:23
7440-22-4	Silver	<0.27	U	mg/kg	1	05/28/2019 17:23
7440-28-0	Thallium	0.60	J	mg/kg	1	05/28/2019 17:23
7440-66-6	Zinc	74.1		mg/kg	1	05/28/2019 17:23

SAMPLE NO.

SP-5 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466014 Percent Moisture: 17.8

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.27	U	mg/kg	1	05/28/2019 17:25
7440-38-2	Arsenic	7.7		mg/kg	1	05/28/2019 17:25
7440-39-3	Barium	91.6		mg/kg	1	05/28/2019 17:25
7440-41-7	Beryllium	0.67		mg/kg	1	05/28/2019 17:25
7440-43-9	Cadmium	0.099	J	mg/kg	1	05/28/2019 17:25
7440-47-3	Chromium	15.1		mg/kg	1	05/28/2019 17:25
7440-50-8	Copper	11.8		mg/kg	1	05/28/2019 17:25
7439-92-1	Lead	17.8		mg/kg	1	05/28/2019 17:25
7440-02-0	Nickel	11.4		mg/kg	1	05/28/2019 17:25
7782-49-2	Selenium	<0.42	U	mg/kg	1	05/28/2019 17:25
7440-22-4	Silver	<0.32	U	mg/kg	1	05/28/2019 17:25
7440-28-0	Thallium	0.54	J	mg/kg	1	05/28/2019 17:25
7440-66-6	Zinc	49.4		mg/kg	1	05/28/2019 17:25

SAMPLE NO.

SP-5 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466018 Percent Moisture: 19.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<0.27	U	mg/kg	1	05/28/2019 17:28
7440-38-2	Arsenic	6.6		mg/kg	1	05/28/2019 17:28
7440-39-3	Barium	118		mg/kg	1	05/28/2019 17:28
7440-41-7	Beryllium	1.1		mg/kg	1	05/28/2019 17:28
7440-43-9	Cadmium	0.16	J	mg/kg	1	05/28/2019 17:28
7440-47-3	Chromium	32.3		mg/kg	1	05/28/2019 17:28
7440-50-8	Copper	13.5		mg/kg	1	05/28/2019 17:28
7439-92-1	Lead	14.0		mg/kg	1	05/28/2019 17:28
7440-02-0	Nickel	15.0		mg/kg	1	05/28/2019 17:28
7782-49-2	Selenium	<0.41	U	mg/kg	1	05/28/2019 17:28
7440-22-4	Silver	<0.31	U	mg/kg	1	05/28/2019 17:28
7440-28-0	Thallium	0.50	J	mg/kg	1	05/28/2019 17:28
7440-66-6	Zinc	57.3		mg/kg	1	05/28/2019 17:28

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210196

Continuing Calibration Verification Source: 210197

Concentration Units: ug/L Instrument ID: 50ICP4

	Initial Calibration Verification				Continuing Calibration Verification						
	05/28/2019 11:19				05/28/2019 11:52			05/28/2019 16:18			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Antimony	1000	986	98.6	90-110	1000	962	96.2	1000	958	95.8	90-110
Arsenic	1000	981	98.1	90-110	1000	968	96.8	1000	952	95.2	90-110
Barium	1000	996	99.6	90-110	1000	993	99.3	1000	986	98.6	90-110
Beryllium	1000	999	99.9	90-110	1000	985	98.5	1000	950	95.0	90-110
Cadmium	1000	973	97.3	90-110	1000	965	96.5	1000	944	94.4	90-110
Chromium	1000	973	97.3	90-110	1000	963	96.3	1000	938	93.8	90-110
Copper	1000	971	97.1	90-110	1000	965	96.5	1000	942	94.2	90-110
Lead	1000	940	94.0	90-110	1000	933	93.3	1000	910	91.0	90-110
Nickel	1000	968	96.8	90-110	1000	969	96.9	1000	940	94.0	90-110
Selenium	1000	981	98.1	90-110	1000	975	97.5	1000	957	95.7	90-110
Silver	500	481	96.2	90-110	500	477	95.4	500	476	95.3	90-110
Thallium	1000	978	97.8	90-110	1000	960	96.0	1000	952	95.2	90-110
Zinc	1000	992	99.2	90-110	1000	987	98.7	1000	944	94.4	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210197

Concentration Units: ug/L Instrument ID: 50ICP4

	Continuing Calibration Verification									
	05/28/2019 16:46			05/28/2019 17:12			05/28/2019 17:39			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	1000	964	96.4	1000	970	97.0	1000	958	95.8	90-110
Arsenic	1000	955	95.5	1000	964	96.4	1000	958	95.8	90-110
Barium	1000	985	98.5	1000	992	99.2	1000	991	99.1	90-110
Beryllium	1000	949	94.9	1000	955	95.5	1000	961	96.1	90-110
Cadmium	1000	946	94.6	1000	946	94.6	1000	946	94.6	90-110
Chromium	1000	949	94.9	1000	941	94.1	1000	941	94.1	90-110
Copper	1000	948	94.8	1000	943	94.3	1000	938	93.8	90-110
Lead	1000	914	91.4	1000	914	91.4	1000	913	91.3	90-110
Nickel	1000	938	93.8	1000	937	93.7	1000	936	93.6	90-110
Selenium	1000	954	95.4	1000	958	95.8	1000	950	95.0	90-110
Silver	500	482	96.4	500	481	96.2	500	476	95.3	90-110
Thallium	1000	957	95.7	1000	960	96.0	1000	956	95.6	90-110
Zinc	1000	949	94.9	1000	947	94.7	1000	949	94.9	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

CRDL Check Standard Source: 210076 Analysis Date/Time: 05/28/2019 11:23

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	6.0	4.6	76.2	50-150
Arsenic	10.0	9.0	89.9	50-150
Barium	10.0	10.2	101.7	50-150
Beryllium	4.0	4.0	100.6	50-150
Cadmium	2.0	1.8	88.2	50-150
Chromium	10.0	9.1	91.4	50-150
Copper	10.0	10.6	106.4	50-150
Lead	10.0	8.8	88.1	50-150
Nickel	10.0	10.6	105.7	50-150
Selenium	10.0	10.3	102.6	50-150
Silver	10.0	9.0	90.0	50-150
Thallium	10.0	10.7	106.6	50-150
Zinc	20	20.6	102.8	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract : 216 College / 19-146

Method Blank Matrix: Solid Instrument ID: 50ICP4

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/28/2019 11:21	C	05/28/2019 11:54	C	05/28/2019 16:20	C	05/28/2019 16:48	C	2317323	C
Antimony	4.0	U	4.0	U	4.0	U	4.0	U	<0.24	U
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	<0.14	U
Barium	5.0	U	5.0	U	5.0	U	5.0	U	<0.030	U
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	<0.020	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	<0.020	U
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	<0.29	U
Copper	5.0	U	5.0	U	5.0	U	5.0	U	0.18	J
Lead	4.0	U	4.0	U	4.0	U	4.0	U	<0.15	U
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	<0.11	U
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	<0.37	U
Silver	5.0	U	5.0	U	5.0	U	5.0	U	<0.28	U
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	<0.24	U
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	<0.35	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICP4

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	05/28/2019 17:14	C	05/28/2019 17:41	C		C
Antimony			4.0	U	4.0	U		
Arsenic			5.0	U	5.0	U		
Barium			5.0	U	5.0	U		
Beryllium			2.0	U	2.0	U		
Cadmium			1.0	U	1.0	U		
Chromium			5.0	U	5.0	U		
Copper			5.0	U	5.0	U		
Lead			4.0	U	4.0	U		
Nickel			5.0	U	5.0	U		
Selenium			5.0	U	5.0	U		
Silver			5.0	U	5.0	U		
Thallium			5.0	U	5.0	U		
Zinc			10.0	U	10.0	U		

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Instrument ID: 50ICP4 Solution A Run Date: 05/28/2019 11:25

ICS Source: 210150,210151 Solution AB Run Date: 05/28/2019 11:28

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	468900	93.8	461800	92.4	80-120
Antimony		500	-1.401		485.2	97	80-120
Arsenic		500	5.386		496.8	99.4	80-120
Barium		500	0.6447		487	97.4	80-120
Beryllium		500	-0.326		481.7	96.3	80-120
Cadmium		500	0.8728		495	99	80-120
Calcium	500000	500000	437500	87.5	433200	86.6	80-120
Chromium		500	0.9225		456.1	91.2	80-120
Copper		500	3.217		503.1	100.6	80-120
Iron	200000	200000	180600	90.3	179400	89.7	80-120
Lead		500	-6.685		411.2	82.2	80-120
Magnesium	500000	500000	489700	97.9	485600	97.1	80-120
Nickel		500	2.658		430.8	86.2	80-120
Selenium		500	0.3039		488.1	97.6	80-120
Silver		250	-0.2299		255.7	102.3	80-120
Thallium		500	8.319		410.9	82.2	80-120
Zinc		500	-3.717		446.7	89.3	80-120

SAMPLE NO.

2317325MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Basis: Dry Parent Sample ID: SP-3 (0-2)

Percent Moisture: 16.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	17.1	<0.26	51.9	33*
Arsenic	mg/kg	75-125	50.6	6.3	51.9	85
Barium	mg/kg	75-125	408	301	51.9	206*
Beryllium	mg/kg	75-125	44.9	0.51J	51.9	86
Cadmium	mg/kg	75-125	45.9	0.34J	51.9	88
Chromium	mg/kg	75-125	59.9	13.3	51.9	90
Copper	mg/kg	75-125	67.1	17.6	51.9	95
Lead	mg/kg	75-125	150	96.5	51.9	102
Nickel	mg/kg	75-125	54.3	13.2	51.9	79
Selenium	mg/kg	75-125	44.4	<0.40	51.9	85
Silver	mg/kg	75-125	24.2	<0.30	25.9	93
Thallium	mg/kg	75-125	37.7	0.83J	51.9	71*
Zinc	mg/kg	75-125	142	97.4	51.9	87

* Spike Recovery outside QC Limits

SAMPLE NO.

2317326MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Basis: Dry Parent Sample ID: SP-3 (0-2)

Percent Moisture: 16.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	mg/kg	75-125	22.6	<0.26	58.9	38*
Arsenic	mg/kg	75-125	59.2	6.3	58.9	90
Barium	mg/kg	75-125	345	301	58.9	74*
Beryllium	mg/kg	75-125	52.1	0.51J	58.9	88
Cadmium	mg/kg	75-125	54.2	0.34J	58.9	92
Chromium	mg/kg	75-125	65.7	13.3	58.9	89
Copper	mg/kg	75-125	74.1	17.6	58.9	96
Lead	mg/kg	75-125	162	96.5	58.9	111
Nickel	mg/kg	75-125	60.9	13.2	58.9	81
Selenium	mg/kg	75-125	52.9	<0.40	58.9	89
Silver	mg/kg	75-125	28.9	<0.30	29.5	97
Thallium	mg/kg	75-125	42.6	0.83J	58.9	71*
Zinc	mg/kg	75-125	159	97.4	58.9	104

* Spike Recovery outside QC Limits

SAMPLE NO.

2320825PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Parent Sample ID: SP-3 (0-2)

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1	912	1	4.8U	1000	91.2
Arsenic	ug/L	75-125	1	1020	1	118	1000	89.8
Barium	ug/L	75-125	1	6450	1	5630	1000	81.7
Beryllium	ug/L	75-125	1	890	1	9.5J	1000	88.0
Cadmium	ug/L	75-125	1	910	1	6.3J	1000	90.4
Chromium	ug/L	75-125	1	1090	1	248	1000	83.8
Copper	ug/L	75-125	1	1230	1	329	1000	89.7
Lead	ug/L	75-125	1	2530	1	1800	1000	72.3*
Nickel	ug/L	75-125	1	1020	1	246	1000	77.8
Selenium	ug/L	75-125	1	910	1	7.4U	1000	91.0
Silver	ug/L	75-125	1	482	1	5.6U	500	96.4
Thallium	ug/L	75-125	1	744	1	15.6J	1000	72.8*
Zinc	ug/L	75-125	1	2570	1	1820	1000	74.8*

SAMPLE NO.

2317326MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 16.2 Basis: Dry

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	17.1	22.6	28*
Arsenic	20	50.6	59.2	16
Barium	20	408	345	17
Beryllium	20	44.9	52.1	15
Cadmium	20	45.9	54.2	17
Chromium	20	59.9	65.7	9
Copper	20	67.1	74.1	10
Lead	20	150	162	8
Nickel	20	54.3	60.9	12
Selenium	20	44.4	52.9	18
Silver	20	24.2	28.9	17
Thallium	20	37.7	42.6	12
Zinc	20	142	159	11

* RPD outside QC Limits

SAMPLE NO.

2317324LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Antimony	mg/kg	50.0	49.9	100	80	120
Arsenic	mg/kg	50.0	48.2	96	80	120
Barium	mg/kg	50.0	51.2	102	80	120
Beryllium	mg/kg	50.0	49.6	99	80	120
Cadmium	mg/kg	50.0	48.7	97	80	120
Chromium	mg/kg	50.0	49.1	98	80	120
Copper	mg/kg	50.0	49.3	99	80	120
Lead	mg/kg	50.0	46.9	94	80	120
Nickel	mg/kg	50.0	48.5	97	80	120
Selenium	mg/kg	50.0	49.1	98	80	120
Silver	mg/kg	25.0	24.9	100	80	120
Thallium	mg/kg	50.0	47.5	95	80	120
Zinc	mg/kg	50.0	47.9	96	80	120

SAMPLE NO.

2320826SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Parent Sample ID: SP-3 (0-2)

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	4.8U	24.0U		10
Arsenic	ug/L	118	128	7.8	10
Barium	ug/L	5630	5970	6.0	10
Beryllium	ug/L	9.5J	10.3J	8.7	10
Cadmium	ug/L	6.3J	5.6J	10.1*	10
Chromium	ug/L	248	265	6.7	10
Copper	ug/L	329	348	5.7	10
Lead	ug/L	1800	2060	14.1*	10
Nickel	ug/L	246	284	15.4*	10
Selenium	ug/L	7.4U	37.0U		10
Silver	ug/L	5.6U	28.0U		10
Thallium	ug/L	15.6J	25.8J	65.8*	10
Zinc	ug/L	1820	2060	13.0*	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract : 216 College / 19-146

Instrument ID: 50ICP4 Effective Date:09/29/2016

Analyte	Concentration (ug/L)
Antimony	40000
Arsenic	35000
Barium	25000
Beryllium	10000
Cadmium	20000
Chromium	25000
Copper	100000
Lead	100000
Nickel	100000
Selenium	50000
Silver	10000
Thallium	50000
Zinc	50000

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Preparation Method: EPA 3050 Batch: MPRP 35886

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
2317323	2317323BLANK	05/28/2019	1	50
2317324	2317324LCS	05/28/2019	1	50
2317325	2317325MS	05/28/2019	1.15	50
2317326	2317326MSD	05/28/2019	1.013	50
50225466001	SP-1 (3-5)	05/28/2019	1.124	50
50225466002	SP-1 (5-7)	05/28/2019	1.086	50
50225466003	SP-2 (0-2)	05/28/2019	1.031	50
50225466004	SP-2 (2-4)	05/28/2019	1.068	50
50225466005	SP-3 (0-2)	05/28/2019	1.115	50
50225466006	SP-3 (2-4)	05/28/2019	1.091	50
50225466007	SP-4 (0-2)	05/28/2019	1.113	50
50225466008	SP-4 (2-4)	05/28/2019	1.086	50
50225466012	SP-5 (0-2)	05/28/2019	1.195	50
50225466013	SP-5 (0-2) DUP	05/28/2019	1.166	50
50225466014	SP-5 (2-4)	05/28/2019	1.065	50
50225466018	SP-5 (6-8)	05/28/2019	1.11	50

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Instrument ID: 50ICP4 Analysis Method: EPA 6010

Start Date: 05/28/2019 11:01 End Date: 05/28/2019 17:41

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	Ba	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Tl	Zn
15136100CAL0	15136100CAL0	1	05/28/2019	11:01	X	X	X	X	X	X	X	X	X	X	X	X	X
15136101CAL1	15136101CAL1	1	05/28/2019	11:04				X	X				X		X		X
15136102CAL2	15136102CAL2	1	05/28/2019	11:06			X				X						
15136103CAL3	15136103CAL3	1	05/28/2019	11:08		X											
15136104CAL4	15136104CAL4	1	05/28/2019	11:10						X		X					
15136105CAL5	15136105CAL5	1	05/28/2019	11:12										X		X	
15136107CAL7	15136107CAL7	1	05/28/2019	11:17	X												
15136108ICV	15136108ICV	1	05/28/2019	11:19	X	X	X	X	X	X	X	X	X	X	X	X	X
15136109ICB	15136109ICB	1	05/28/2019	11:21	X	X	X	X	X	X	X	X	X	X	X	X	X
15136110CRDL	15136110CRDL	1	05/28/2019	11:23	X	X	X	X	X	X	X	X	X	X	X	X	X
15136111ICSA	15136111ICSA	1	05/28/2019	11:25	X	X	X	X	X	X	X	X	X	X	X	X	X
15136112ICSAB	15136112ICSAB	1	05/28/2019	11:28	X	X	X	X	X	X	X	X	X	X	X	X	X
15136113CCV	15136113CCV	1	05/28/2019	11:52	X	X	X	X	X	X	X	X	X	X	X	X	X
15136114CCB	15136114CCB	1	05/28/2019	11:54	X	X	X	X	X	X	X	X	X	X	X	X	X
15136137CCV	15136137CCV	1	05/28/2019	16:18	X	X	X	X	X	X	X	X	X	X	X	X	X
15136138CCB	15136138CCB	1	05/28/2019	16:20	X	X	X	X	X	X	X	X	X	X	X	X	X
2317323BLANK	2317323	1	05/28/2019	16:42	X	X	X	X	X	X	X	X	X	X	X	X	X
2317324LCS	2317324	1	05/28/2019	16:44	X	X	X	X	X	X	X	X	X	X	X	X	X
15136140CCV	15136140CCV	1	05/28/2019	16:46	X	X	X	X	X	X	X	X	X	X	X	X	X
15136141CCB	15136141CCB	1	05/28/2019	16:48	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-1 (3-5)	50225466001	1	05/28/2019	16:50	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-1 (5-7)	50225466002	1	05/28/2019	16:53	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-2 (0-2)	50225466003	1	05/28/2019	16:55	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-2 (2-4)	50225466004	1	05/28/2019	16:57	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-3 (0-2)	50225466005	1	05/28/2019	16:59	X	X	X	X	X	X	X	X	X	X	X	X	X
2317325MS	2317325	1	05/28/2019	17:02	X	X	X	X	X	X	X	X	X	X	X	X	X
2317326MSD	2317326	1	05/28/2019	17:04	X	X	X	X	X	X	X	X	X	X	X	X	X
2320825PDS	2320825	1	05/28/2019	17:06	X	X	X	X	X	X	X	X	X	X	X	X	X
2320826SD	2320826	1	05/28/2019	17:08	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-3 (2-4)	50225466006	1	05/28/2019	17:10	X	X	X	X	X	X	X	X	X	X	X	X	X
15136142CCV	15136142CCV	1	05/28/2019	17:12	X	X	X	X	X	X	X	X	X	X	X	X	X
15136143CCB	15136143CCB	1	05/28/2019	17:14	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-4 (0-2)	50225466007	1	05/28/2019	17:17	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-4 (2-4)	50225466008	1	05/28/2019	17:19	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-5 (0-2)	50225466012	1	05/28/2019	17:21	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-5 (0-2) DUP	50225466013	1	05/28/2019	17:23	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-5 (2-4)	50225466014	1	05/28/2019	17:25	X	X	X	X	X	X	X	X	X	X	X	X	X
SP-5 (6-8)	50225466018	1	05/28/2019	17:28	X	X	X	X	X	X	X	X	X	X	X	X	X
15136144CCV	15136144CCV	1	05/28/2019	17:39	X	X	X	X	X	X	X	X	X	X	X	X	X
15136145CCB	15136145CCB	1	05/28/2019	17:41	X	X	X	X	X	X	X	X	X	X	X	X	X

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Instrument ID: 50ICP4 Start Date: 05/28/2019 11:01 End Date: 05/28/2019 17:41

Sample Name	Time	Y1	Y2	Y3
15136100CAL0	11:01	100.0	100.0	100.0
15136101CAL1	11:04	100.3	100.5	101.6
15136102CAL2	11:06	100.1	100.1	101.5
15136103CAL3	11:08	101.5	101.7	
15136104CAL4	11:10	99.7	99.4	101.1
15136105CAL5	11:12	100.5	100.8	
15136106CAL6	11:15	99.9	99.5	100.9
15136107CAL7	11:17	99.8		
15136108ICV	11:19	100.2	99.5	100.6
15136109ICB	11:21	100.1	101.2	100.8
15136110CRDL	11:23	100.6	100.8	101.3
15136111ICSA	11:25	91.4	89.0	99.5
15136112ICSAB	11:28	91.4	90.0	100.3
15136113CCV	11:52	100.8	100.8	102.0
15136114CCB	11:54	101.2	101.4	101.8
15136137CCV	16:18	103.8	104.3	106.5
15136138CCB	16:20	104.0	105.5	105.9
15136140CCV	16:46	103.7	104.1	105.6
15136141CCB	16:48	103.7	104.2	104.2
2320825PDS	17:06	99.3	97.4	109.5
2320826SD	17:08	102.2	101.3	105.3
15136142CCV	17:12	103.5	103.5	105.0
15136143CCB	17:14	103.9	104.5	104.3
15136144CCV	17:39	102.3	102.2	101.3
15136145CCB	17:41	102.6	103.5	102.0

Prep Log Report

Batch Information: MPRP 35886

Template Version: EF-IN-I-318-Rev.01 (08Aug2017)

Prep Method	EPA 3050	Analysis Method	EPA 6010	Extracted By	phb	Extracted Date/Time	05/28/2019 07:10:32:900
Solid Matrix Lot	201780	Instrument	50BALL	Block ID	4	Block Temp (C)	96
Correction Factor (C)	-1.4	Corrected Temp. (C)	94.6	Acceptance Range:	95 +/- 3 C	Thermometer ID	PT-236
Digestion Vessel Lot	204633/174134 antifoam	Batch Notes	207422 filtermate	Reviewed By	KJE	Reviewed By Date	05/28/2019 15:35

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	6010-SPK (mL)
6010 S_P	BLANK	**2317323**	Solid	1	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	LCS	**2317324**	Solid	1	200224 (5)	209940 (4)	206319 (5)	50		2*	210095 (1)
6010 S_P	PS	**50225466001**	Solid	1.124	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466002**	Solid	1.086	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466003**	Solid	1.031	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466004**	Solid	1.068	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	RQS	**50225466005**	Solid	1.115	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	MS	**2317325**	Solid	1.15	200224 (5)	209940 (4)	206319 (5)	50		2*	210095 (1)
6010 S_P	MSD	**2317326**	Solid	1.013	200224 (5)	209940 (4)	206319 (5)	50		2*	210095 (1)
6010 S_P	PS	**50225466006**	Solid	1.091	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466007**	Solid	1.113	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466008**	Solid	1.086	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466012**	Solid	1.195	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466013**	Solid	1.166	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466018**	Solid	1.11	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225466014**	Solid	1.065	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225732001**	Solid	1.126	200224 (5)	209940 (4)	206319 (5)	50		1*	
6010 S_P	PS	**50225732002**	Solid	1.099	200224 (5)	209940 (4)	206319 (5)	50		1*	
6010 S_P	PS	**50225732003**	Solid	1.2	200224 (5)	209940 (4)	206319 (5)	50		1*	
6010 S_P	PS	**50225812001**	Solid	1.052	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225812002**	Solid	1.087	200224 (5)	209940 (4)	206319 (5)	50		2*	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	6010-SPK (mL)
6010 S_P	PS	**50225812003**	Solid	1.11	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225812004**	Solid	1.052	200224 (5)	209940 (4)	206319 (5)	50		2*	
6010 S_P	PS	**50225812005**	Solid	1.074	200224 (5)	209940 (4)	206319 (5)	50		2*	

Sample Notes:

1*: large gravel; w/b cel 052419

2*: w/b cel 052419

Standard Notes:

210095: ICP-SPK

SAMPLE NO.

SP-1 (3-5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466001 Percent Moisture: 16.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.11	J	mg/kg	1	05/30/2019 20:16

SAMPLE NO.

SP-1 (5-7)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466002 Percent Moisture: 19.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.13	J	mg/kg	1	05/30/2019 20:18

SAMPLE NO.

SP-2 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466003 Percent Moisture: 3.4

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.10	U	mg/kg	1	05/30/2019 20:20

SAMPLE NO.

SP-2 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466004 Percent Moisture: 8.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.11	U	mg/kg	1	05/30/2019 20:22

SAMPLE NO.

SP-3 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466005 Percent Moisture: 16.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.59		mg/kg	1	05/30/2019 20:29

SAMPLE NO.

SP-3 (2-4)

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146
Lab Sample ID: 50225466006 Percent Moisture: 22.2

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.12	U	mg/kg	1	05/30/2019 20:35

SAMPLE NO.

SP-4 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466007 Percent Moisture: 18.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.15	J	mg/kg	1	05/30/2019 20:37

SAMPLE NO.

SP-4 (2-4)

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146
Lab Sample ID: 50225466008 Percent Moisture: 21.9

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.12	U	mg/kg	1	05/30/2019 20:39

SAMPLE NO.

SP-5 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466012 Percent Moisture: 12.3

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.85		mg/kg	1	05/30/2019 20:42

SAMPLE NO.

SP-5 (0-2) DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466013 Percent Moisture: 12.1

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	1.0		mg/kg	1	05/30/2019 20:44

SAMPLE NO.

SP-5 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466014 Percent Moisture: 17.8

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	0.42		mg/kg	1	05/30/2019 20:46

SAMPLE NO.

SP-5 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466018 Percent Moisture: 19.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.11	U	mg/kg	1	05/30/2019 20:48

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210657

Continuing Calibration Verification Source: 210654

Concentration Units: ug/L Instrument ID: 50HG03

	Initial Calibration Verification				Continuing Calibration Verification						
	05/30/2019 19:04				05/30/2019 19:32			05/30/2019 19:57			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	101.2	90-110	5.0	5.1	102.0	5.0	5.2	103.4	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210654

Concentration Units: ug/L Instrument ID: 50HG03

	Continuing Calibration Verification									
	05/30/2019 20:25			05/30/2019 20:50			05/30/2019 21:22			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Mercury	5.0	5.2	103.8	5.0	5.2	105.0	5.0	5.0	100.0	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

CRDL Check Standard Source: 210651 Analysis Date/Time: 05/30/2019 19:08

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.20	101.5	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

CRDL Check Standard Source: 210651 Analysis Date/Time: 05/30/2019 20:01

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.21	105.0	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

CRDL Check Standard Source: 210651 Analysis Date/Time: 05/30/2019 20:54

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.22	107.5	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract : 216 College / 19-146

Method Blank Matrix: Solid Instrument ID: 50HG03

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/30/2019 19:06	C	05/30/2019 19:34	C	05/30/2019 19:59	C	05/30/2019 20:27	C	2321759	C
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	<0.091	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50HG03

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	05/30/2019 20:52	C	05/30/2019 21:24	C		C
Mercury			0.20	U	0.20	U		

SAMPLE NO.

2321761MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Basis: Dry Parent Sample ID: SP-3 (0-2)

Percent Moisture: 16.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	1.6	0.59	0.54	184*

* Spike Recovery outside QC Limits

SAMPLE NO.

2321762MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Basis: Dry Parent Sample ID: SP-3 (0-2)

Percent Moisture: 16.2

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	mg/kg	75-125	0.96	0.59	0.55	67*

* Spike Recovery outside QC Limits

SAMPLE NO.

2321762MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: mg/kg

Percent Moisture: 16.2 Basis: Dry

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	1.6	0.96	49*

* RPD outside QC Limits

SAMPLE NO.

2321760LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Mercury	mg/kg	0.49	0.52	105	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Preparation Method: EPA 7471 Batch: MERP 11846

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
2321759	2321759BLANK	05/30/2019	0.319	50
2321760	2321760LCS	05/30/2019	0.304	50
2321761	2321761MS	05/30/2019	0.332	50
2321762	2321762MSD	05/30/2019	0.325	50
50225466001	SP-1 (3-5)	05/30/2019	0.319	50
50225466002	SP-1 (5-7)	05/30/2019	0.312	50
50225466003	SP-2 (0-2)	05/30/2019	0.288	50
50225466004	SP-2 (2-4)	05/30/2019	0.293	50
50225466005	SP-3 (0-2)	05/30/2019	0.323	50
50225466006	SP-3 (2-4)	05/30/2019	0.324	50
50225466007	SP-4 (0-2)	05/30/2019	0.297	50
50225466008	SP-4 (2-4)	05/30/2019	0.303	50
50225466012	SP-5 (0-2)	05/30/2019	0.322	50
50225466013	SP-5 (0-2) DUP	05/30/2019	0.328	50
50225466014	SP-5 (2-4)	05/30/2019	0.307	50
50225466018	SP-5 (6-8)	05/30/2019	0.324	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Instrument ID: 50HG03 Analysis Method: EPA 7471

Start Date: 05/30/2019 18:49 End Date: 05/30/2019 21:24

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
15156213CAL0	15156213CAL0	1	05/30/2019	18:49	X
15156214CAL1	15156214CAL1	1	05/30/2019	18:51	X
15156215CAL2	15156215CAL2	1	05/30/2019	18:53	X
15156216CAL3	15156216CAL3	1	05/30/2019	18:55	X
15156217CAL4	15156217CAL4	1	05/30/2019	18:58	X
15156218CAL5	15156218CAL5	1	05/30/2019	19:00	X
15156219CAL6	15156219CAL6	1	05/30/2019	19:02	X
15156220ICV	15156220ICV	1	05/30/2019	19:04	X
15156221ICB	15156221ICB	1	05/30/2019	19:06	X
15156222CRDL	15156222CRDL	1	05/30/2019	19:08	X
15156223CCV	15156223CCV	1	05/30/2019	19:32	X
15156224CCB	15156224CCB	1	05/30/2019	19:34	X
15156225CCV	15156225CCV	1	05/30/2019	19:57	X
15156226CCB	15156226CCB	1	05/30/2019	19:59	X
15156227CRDL	15156227CRDL	1	05/30/2019	20:01	X
2321759BLANK	2321759	1	05/30/2019	20:12	X
2321760LCS	2321760	1	05/30/2019	20:14	X
SP-1 (3-5)	50225466001	1	05/30/2019	20:16	X
SP-1 (5-7)	50225466002	1	05/30/2019	20:18	X
SP-2 (0-2)	50225466003	1	05/30/2019	20:20	X
SP-2 (2-4)	50225466004	1	05/30/2019	20:22	X
15156228CCV	15156228CCV	1	05/30/2019	20:25	X
15156229CCB	15156229CCB	1	05/30/2019	20:27	X
SP-3 (0-2)	50225466005	1	05/30/2019	20:29	X
2321761MS	2321761	1	05/30/2019	20:31	X
2321762MSD	2321762	1	05/30/2019	20:33	X
SP-3 (2-4)	50225466006	1	05/30/2019	20:35	X
SP-4 (0-2)	50225466007	1	05/30/2019	20:37	X
SP-4 (2-4)	50225466008	1	05/30/2019	20:39	X
SP-5 (0-2)	50225466012	1	05/30/2019	20:42	X
SP-5 (0-2) DUP	50225466013	1	05/30/2019	20:44	X
SP-5 (2-4)	50225466014	1	05/30/2019	20:46	X
SP-5 (6-8)	50225466018	1	05/30/2019	20:48	X
15156230CCV	15156230CCV	1	05/30/2019	20:50	X
15156231CCB	15156231CCB	1	05/30/2019	20:52	X
15156232CRDL	15156232CRDL	1	05/30/2019	20:54	X
15156233CCV	15156233CCV	1	05/30/2019	21:22	X
15156234CCB	15156234CCB	1	05/30/2019	21:24	X

Prep Log Report

Batch Information: MERP 11846

Template Version: EF-IN-I-323 (rev.01, 19Nov2013)

Prep Method	EPA 7471	Analysis Method	EPA 7471	Extracted By	ILP	Extracted Date/Time	05/30/2019 12:54:39:568
Instrument	50BAL7	Block ID	8	Thermometer ID	PT-289	Block Temp (C)	93
Correction Factor (C)	0.0	Corrected Temp. (C)	93.00	Digestion Vessel Lot	204633	Batch Notes	RGNT070#210592
Reviewed By	LBT	Reviewed By Date	05/30/2019 22:42				

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	Conc. HCL (mL)	5% KMnO4 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MDL / EQL	MERCURY-SPK (mL)
7471 S_P	BLANK	**2321759**	Solid	0.319	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	LCS	**2321760**	Solid	0.304	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			210573 (1.5)
7471 S_P	PS	**50225466001**	Solid	0.319	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466002**	Solid	0.312	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466003**	Solid	0.288	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466004**	Solid	0.293	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	RQS	**50225466005**	Solid	0.323	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	MS	**2321761**	Solid	0.332	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			210573 (1.5)
7471 S_P	MSD	**2321762**	Solid	0.325	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			210573 (1.5)
7471 S_P	PS	**50225466006**	Solid	0.324	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466007**	Solid	0.297	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466008**	Solid	0.303	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466012**	Solid	0.322	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466013**	Solid	0.328	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466014**	Solid	0.307	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225466018**	Solid	0.324	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225469001**	Solid	0.308	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	Conc. HCL (mL)	5% KMnO4 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MDL / EQL	MERCURY-SPK (mL)
7471 S_P	PS	**50225732001**	Solid	0.306	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225732002**	Solid	0.29	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			
7471 S_P	PS	**50225732003**	Solid	0.303	200224 (0.625)	206319 (1.875)	203545 (7.5)	210332 (3)	50			

Standard Notes:

210573: prepared fresh daily

Prep Log Report

Batch Information: MERC 15066

Template Version: EF-IN-I-323 (rev.01, 19Nov2013)

Prep Method		Analysis Method	EPA 7470/7471/245.1	Extracted By	LBT	Extracted Date/Time	05/31/2019 12:51:32:088
Instrument	50BAL7	Block ID	8	Thermometer ID	PT-289	Block Temp (C)	93
Correction Factor (C)	0	Corrected Temp. (C)	93.00	Digestion Vessel Lot	204633	Batch Notes	RGNT070#210592
Reviewed By		Reviewed By Date					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	Conc. HCL (mL)	5% KMnO4 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MDL / EQL
7471_Q	CAL0	**CAL0**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL1	**CAL1**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL2	**CAL2**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL3	**CAL3**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL4	**CAL4**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL5	**CAL5**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	CAL6	**CAL6**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		
7471_Q	ICV	**ICV**	WT	1	200224 (0.625)	206319 (1.875)	203545 (7.5)	210666 (3)	50		

SAMPLE NO.

SP-1 (3-5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	16.2		%	1	05/28/2019 11:52

SAMPLE NO.

SP-1 (5-7)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.5		%	1	05/28/2019 11:52

SAMPLE NO.

SP-2 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	3.4		%	1	05/28/2019 11:52

SAMPLE NO.

SP-2 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	8.5		%	1	05/28/2019 11:52

SAMPLE NO.

SP-3 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	16.2		%	1	05/28/2019 11:53

SAMPLE NO.

SP-3 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	22.2		%	1	05/28/2019 12:39

SAMPLE NO.

SP-4 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	18.5		%	1	05/28/2019 12:39

SAMPLE NO.

SP-4 (2-4)

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146
Lab Sample ID: 50225466008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	21.9		%	1	05/28/2019 12:40

SAMPLE NO.

SP-4 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	20.7		%	1	05/28/2019 12:40

SAMPLE NO.

SP-4 (8-9)

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146
Lab Sample ID: 50225466010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.3		%	1	05/28/2019 12:40

SAMPLE NO.

SP-4 (9-10.5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	20.3		%	1	05/28/2019 12:40

SAMPLE NO.

SP-5 (0-2)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	12.3		%	1	05/28/2019 12:41

SAMPLE NO.

SP-5 (0-2) DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466013 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	12.1		%	1	05/28/2019 12:41

SAMPLE NO.

SP-5 (2-4)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466014 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	17.8		%	1	05/28/2019 12:41

SAMPLE NO.

SP-5 (9-11)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466015 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	24.8		%	1	05/28/2019 12:41

SAMPLE NO.

SP-5 (11-13)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466016 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	32.6		%	1	05/28/2019 12:42

SAMPLE NO.

SP-5 (11-13) DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466017 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	23.7		%	1	05/28/2019 12:42

SAMPLE NO.

SP-5 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Lab Sample ID: 50225466018 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	19.0		%	1	05/28/2019 12:42

SAMPLE NO.

2320587DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	9.0	9.5	5

SAMPLE NO.

2320588DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	16.2	16.5	2

SAMPLE NO.

2320625DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	17.6	18.2	3

SAMPLE NO.

2320626DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	32.6	32.0	2

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Preparation Method: SM 2540G Batch: PMST 16120

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2320587	2320587DUP	05/28/2019	1	1
2320588	2320588DUP	05/28/2019	1	1
50225466001	SP-1 (3-5)	05/28/2019	1	1
50225466002	SP-1 (5-7)	05/28/2019	1	1
50225466003	SP-2 (0-2)	05/28/2019	1	1
50225466004	SP-2 (2-4)	05/28/2019	1	1
50225466005	SP-3 (0-2)	05/28/2019	1	1

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Preparation Method: SM 2540G Batch: PMST 16121

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2320625	2320625DUP	05/28/2019	1	1
2320626	2320626DUP	05/28/2019	1	1
50225466006	SP-3 (2-4)	05/28/2019	1	1
50225466007	SP-4 (0-2)	05/28/2019	1	1
50225466008	SP-4 (2-4)	05/28/2019	1	1
50225466009	SP-4 (6-8)	05/28/2019	1	1
50225466010	SP-4 (8-9)	05/28/2019	1	1
50225466011	SP-4 (9-10.5)	05/28/2019	1	1
50225466012	SP-5 (0-2)	05/28/2019	1	1
50225466013	SP-5 (0-2) DUP	05/28/2019	1	1
50225466014	SP-5 (2-4)	05/28/2019	1	1
50225466015	SP-5 (9-11)	05/28/2019	1	1
50225466016	SP-5 (11-13)	05/28/2019	1	1
50225466017	SP-5 (11-13) DUP	05/28/2019	1	1
50225466018	SP-5 (6-8)	05/28/2019	1	1

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225466 Contract: 216 College / 19-146

Instrument ID: 50BALH Analysis Method: SM 2540G

Start Date: 05/28/2019 11:48 End Date: 05/28/2019 12:42

Sample Name	Lab Sample ID	D/F	Date	Time	MOIST
50225398001	50225398001	1	05/28/2019	11:48	X
2320587DUP	2320587	1	05/28/2019	11:49	X
SP-1 (3-5)	50225466001	1	05/28/2019	11:52	X
SP-1 (5-7)	50225466002	1	05/28/2019	11:52	X
SP-2 (0-2)	50225466003	1	05/28/2019	11:52	X
SP-2 (2-4)	50225466004	1	05/28/2019	11:52	X
SP-3 (0-2)	50225466005	1	05/28/2019	11:53	X
2320588DUP	2320588	1	05/28/2019	11:53	X
50225404004	50225404004	1	05/28/2019	12:38	X
2320625DUP	2320625	1	05/28/2019	12:38	X
SP-3 (2-4)	50225466006	1	05/28/2019	12:39	X
SP-4 (0-2)	50225466007	1	05/28/2019	12:39	X
SP-4 (2-4)	50225466008	1	05/28/2019	12:40	X
SP-4 (6-8)	50225466009	1	05/28/2019	12:40	X
SP-4 (8-9)	50225466010	1	05/28/2019	12:40	X
SP-4 (9-10.5)	50225466011	1	05/28/2019	12:40	X
SP-5 (0-2)	50225466012	1	05/28/2019	12:41	X
SP-5 (0-2) DUP	50225466013	1	05/28/2019	12:41	X
SP-5 (2-4)	50225466014	1	05/28/2019	12:41	X
SP-5 (9-11)	50225466015	1	05/28/2019	12:41	X
SP-5 (11-13)	50225466016	1	05/28/2019	12:42	X
2320626DUP	2320626	1	05/28/2019	12:42	X
SP-5 (11-13) DUP	50225466017	1	05/28/2019	12:42	X
SP-5 (6-8)	50225466018	1	05/28/2019	12:42	X

Prep Log Report

Batch Information: PMST 16120

Template Version: EF-IN-Q-337-Rev.03 (06Feb2017)

Analysis Method	SM 2540G	Analyzed By	RM1	Instrument	50BALH	Oven ID	50WETZ
Thermometer ID	PT-112	Oven Temp Correction Factor	0	Oven Temp In1 | Corr | Date/Time | Init	104.5 | 104.5 | 05/28/2019 12:29 | RM1	Oven Temp Out1 | Corr | Date/Time | Init	103.5 | 103.5 | 05/29/2019 06:45 | RM1
Reviewed By	SEP	Reviewed By Date	05/30/2019 11:36	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50225367001**	Y	99.96	0.04492	05/28/2019 11:48:49	12.179	1.053	12.184	12.179	M	150	
DRY WEIGHT	RQS	**50225398001**	Y	90.95	9.047	05/28/2019 11:48:57	16.463	1.091	17.992	16.463	M	151	
DRY WEIGHT	DUP	**2320587**	Y	90.46	9.543	05/28/2019 11:49:08	14.92	1.091	16.379	14.92	M	152	
DRY WEIGHT	PS	**50225398002**	Y	89.68	10.32	05/28/2019 11:49:15	13.27	1.115	14.668	13.27	M	153	
DRY WEIGHT	PS	**50225398003**	Y	88.81	11.19	05/28/2019 11:49:25	12.825	1.099	14.302	12.825	M	154	
DRY WEIGHT	PS	**50225398004**	Y	90.36	9.645	05/28/2019 11:49:34	13.541	1.082	14.871	13.541	M	155	
DRY WEIGHT	PS	**50225398005**	Y	88.59	11.41	05/28/2019 11:49:53	12.037	1.067	13.45	12.037	M	156	
DRY WEIGHT	PS	**50225398006**	Y	88.89	11.11	05/28/2019 11:50:03	11.467	1.197	12.75	11.467	M	157	
DRY WEIGHT	PS	**50225398007**	Y	87.29	12.71	05/28/2019 11:50:16	11.201	1.088	12.674	11.201	M	158	
DRY WEIGHT	PS	**50225398008**	Y	86.84	13.16	05/28/2019 11:50:33	10.948	1.034	12.45	10.948	M	159	
DRY WEIGHT	PS	**50225398009**	Y	85.40	14.60	05/28/2019 11:50:46	12.429	1.079	14.369	12.429	M	160	
DRY WEIGHT	PS	**50225398010**	Y	85.93	14.07	05/28/2019 11:50:58	12.056	1.12	13.846	12.056	M	161	
DRY WEIGHT	PS	**50225398011**	Y	93.10	6.899	05/28/2019 11:51:12	19.088	1.113	20.42	19.088	M	162	
DRY WEIGHT	PS	**50225398012**	Y	85.67	14.33	05/28/2019 11:51:34	10.95	1.184	12.584	10.95	M	163	
DRY WEIGHT	PS	**50225404002**	Y	82.49	17.51	05/28/2019 11:51:45	11.847	1.092	14.13	11.847	M	164	
DRY WEIGHT	PS	**50225404003**	Y	86.04	13.96	05/28/2019 11:52:00	18.055	1.086	20.809	18.055	M	165	
DRY WEIGHT	PS	**50225466001**	Y	83.78	16.22	05/28/2019 11:52:11	12.58	1.163	14.791	12.58	M	166	
DRY WEIGHT	PS	**50225466002**	Y	80.55	19.45	05/28/2019 11:52:22	10.769	1.154	13.091	10.769	M	167	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50225466003**	Y	96.61	3.390	05/28/2019 11:52:31	12.309	1.139	12.701	12.309	M	168	
DRY WEIGHT	PS	**50225466004**	Y	91.54	8.464	05/28/2019 11:52:44	14.923	1.08	16.203	14.923	M	169	
DRY WEIGHT	RQS	**50225466005**	Y	83.83	16.17	05/28/2019 11:53:02	11.994	1.094	14.097	11.994	M	170	
DRY WEIGHT	DUP	**2320588**	Y	83.47	16.53	05/28/2019 11:53:15	10.583	1.037	12.474	10.583	M	171	

Prep Log Report

Batch Information: PMST 16121

Template Version: EF-IN-Q-337-Rev.03 (06Feb2017)

Analysis Method	SM 2540G	Analyzed By	RM1	Instrument	50BALH	Oven ID	50WETZ
Thermometer ID	PT-112	Oven Temp Correction Factor	0	Oven Temp In1 | Corr | Date/Time | Init	104.5 | 104.5 | 05/28/2019 13:16 | RM1	Oven Temp Out1 | Corr | Date/Time | Init	103.5 | 103.5 | 05/29/2019 06:45 | RM1
Reviewed By	SEP	Reviewed By Date	05/30/2019 11:34	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50225404004**	Y	82.38	17.62	05/28/2019 12:38:41	11.557	1.194	13.773	11.557	M	251	
DRY WEIGHT	DUP	**2320625**	Y	81.83	18.17	05/28/2019 12:38:54	10.742	1.165	12.868	10.742	M	252	
DRY WEIGHT	PS	**50225466006**	Y	77.77	22.23	05/28/2019 12:39:06	11.938	1.044	15.052	11.938	M	253	
DRY WEIGHT	PS	**50225466007**	Y	81.54	18.46	05/28/2019 12:39:56	12.28	1.039	14.825	12.28	M	254	
DRY WEIGHT	PS	**50225466008**	Y	78.11	21.89	05/28/2019 12:40:17	10.355	1.017	12.972	10.355	M	255	
DRY WEIGHT	PS	**50225466009**	Y	79.35	20.65	05/28/2019 12:40:38	12.314	1.048	15.246	12.314	M	256	
DRY WEIGHT	PS	**50225466010**	Y	80.69	19.31	05/28/2019 12:40:48	10.567	1.056	12.843	10.567	M	257	
DRY WEIGHT	PS	**50225466011**	Y	79.74	20.26	05/28/2019 12:40:59	10.711	1.052	13.165	10.711	M	258	
DRY WEIGHT	PS	**50225466012**	Y	87.73	12.27	05/28/2019 12:41:08	11.152	1.026	12.568	11.152	M	259	
DRY WEIGHT	PS	**50225466013**	Y	87.94	12.06	05/28/2019 12:41:16	13.791	1.022	15.542	13.791	M	260	
DRY WEIGHT	PS	**50225466014**	Y	82.23	17.77	05/28/2019 12:41:26	12.755	1.079	15.279	12.755	M	261	
DRY WEIGHT	PS	**50225466015**	Y	75.24	24.76	05/28/2019 12:41:41	10.473	1.035	13.579	10.473	M	262	
DRY WEIGHT	PS	**50225466016**	Y	67.44	32.56	05/28/2019 12:42:00	9.745	1.042	13.946	9.745	M	263	
DRY WEIGHT	DUP	**2320626**	Y	67.97	32.03	05/28/2019 12:42:10	8.97	1.047	12.703	8.97	M	264	
DRY WEIGHT	PS	**50225466017**	Y	76.35	23.65	05/28/2019 12:42:22	12.151	1.066	15.585	12.151	M	265	
DRY WEIGHT	PS	**50225466018**	Y	81.03	18.97	05/28/2019 12:42:36	14.056	1.103	17.088	14.056	M	266	
DRY WEIGHT	PS	**50225469001**	Y	90.74	9.258	05/28/2019 12:42:52	13.359	1.097	14.61	13.359	M	267	
DRY WEIGHT	PS	**50225732001**	Y	95.66	4.342	05/28/2019 12:43:03	17.863	1.054	18.626	17.863	M	268	Rocks

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50225732002**	Y	97.13	2.871	05/28/2019 12:43:16	18.308	1.057	18.818	18.308	M	269	Rocks
DRY WEIGHT	PS	**50225732003**	Y	97.99	2.012	05/28/2019 12:43:30	13.95	1.045	14.215	13.95	M	270	Rocks
DRY WEIGHT	PS	**10476078001**	Y	86.64	13.36	05/28/2019 12:43:45	11.686	1.024	13.33	11.686	M	271	
DRY WEIGHT	PS	**10476078002**	Y	94.30	5.700	05/28/2019 12:43:56	14.343	1.042	15.147	14.343	M	272	

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50225468

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 11, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 College / 19-146
Pace Project No.: 50225468

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Revised Report: This revision replaces previous report dated June 4, 2019. Field filtered metals were added per client request. 6/7/19 RRB

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC Rod Manny, BCA Environmental Consultants

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

cc: Mr. Dan Rust, BCA Environmental Consultants, LLC

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CERTIFICATIONS

Project: 216 College / 19-146
Pace Project No.: 50225468

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50225468001	**SP-1**	Water	05/17/19 11:45	05/17/19 18:01
50225468002	**SP-3**	Water	05/17/19 13:10	05/17/19 18:01
50225468003	**SP-4**	Water	05/17/19 13:45	05/17/19 18:01
50225468004	**SP-5**	Water	05/17/19 10:23	05/17/19 18:01
50225468005	**SP-5 DUP**	Water	05/17/19 10:23	05/17/19 18:01
50225468006	**EQ Blank**	Water	05/17/19 14:50	05/17/19 18:01
50225468007	**SP-1 FIELD FILTERED**	Water	05/17/19 11:45	05/17/19 18:01
50225468008	**SP-4 FIELD FILTERED**	Water	05/17/19 13:45	05/17/19 18:01
50225468009	**SP-5 FIELD FILTERED**	Water	05/17/19 10:23	05/17/19 18:01

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SAMPLE ANALYTE COUNT

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50225468001	**SP-1**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468002	**SP-3**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468003	**SP-4**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468004	**SP-5**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468005	**SP-5 DUP**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	LBT	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468006	**EQ Blank**	EPA 6010	JPK	12	PASI-I
		EPA 6020	DMT	1	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM	GRM	20	PASI-I
		EPA 8270	GRM	47	PASI-I
50225468008	**SP-4 FIELD FILTERED**	EPA 6010	RAM	2	PASI-I
50225468009	**SP-5 FIELD FILTERED**	EPA 6010	RAM	1	PASI-I

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225468001	**SP-1**					
EPA 6010	Arsenic	8.2J	ug/L	10.0	05/21/19 23:33	
EPA 6010	Barium	276	ug/L	10.0	05/21/19 23:33	
EPA 6010	Nickel	3.7J	ug/L	10.0	05/21/19 23:33	
EPA 6010	Zinc	3.5J	ug/L	20.0	05/21/19 23:33	
50225468002	**SP-3**					
EPA 6010	Antimony	3.9J	ug/L	6.0	05/21/19 23:45	
EPA 6010	Arsenic	10J	ug/L	10.0	05/21/19 23:45	
EPA 6010	Barium	203	ug/L	10.0	05/21/19 23:45	
EPA 6010	Beryllium	1.6J	ug/L	4.0	05/21/19 23:45	
EPA 6010	Cadmium	1.3J	ug/L	2.0	05/21/19 23:45	
EPA 6010	Chromium	44.6	ug/L	10.0	05/21/19 23:45	
EPA 6010	Copper	18.1	ug/L	10.0	05/21/19 23:45	
EPA 6010	Lead	33.2	ug/L	10.0	05/21/19 23:45	
EPA 6010	Nickel	29.4	ug/L	10.0	05/21/19 23:45	
EPA 6010	Zinc	69.2	ug/L	20.0	05/21/19 23:45	
EPA 6020	Thallium	0.18J	ug/L	1.0	06/01/19 14:17	
EPA 8270 by SIM	1-Methylnaphthalene	0.065J	ug/L	1.0	05/28/19 17:16	
EPA 8270 by SIM	2-Methylnaphthalene	0.071J	ug/L	1.0	05/28/19 17:16	
50225468003	**SP-4**					
EPA 6010	Arsenic	14.9	ug/L	10.0	05/21/19 23:47	
EPA 6010	Barium	607	ug/L	10.0	05/21/19 23:47	
EPA 6010	Beryllium	1.2J	ug/L	4.0	05/21/19 23:47	
EPA 6010	Cadmium	0.73J	ug/L	2.0	05/21/19 23:47	
EPA 6010	Chromium	22.7	ug/L	10.0	05/21/19 23:47	
EPA 6010	Copper	24.3	ug/L	10.0	05/21/19 23:47	
EPA 6010	Lead	26.4	ug/L	10.0	05/21/19 23:47	
EPA 6010	Nickel	18.0	ug/L	10.0	05/21/19 23:47	
EPA 6010	Zinc	68.1	ug/L	20.0	05/21/19 23:47	
EPA 6020	Thallium	0.22J	ug/L	1.0	06/01/19 14:22	
EPA 8270 by SIM	Fluorene	0.080J	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	1-Methylnaphthalene	10.6	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	2-Methylnaphthalene	18.1	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	Naphthalene	8.0	ug/L	1.0	05/28/19 17:27	
EPA 8270 by SIM	Phenanthrene	0.11J	ug/L	1.0	05/28/19 17:27	
50225468004	**SP-5**					
EPA 6010	Arsenic	12.4	ug/L	10.0	05/21/19 23:50	
EPA 6010	Barium	459	ug/L	10.0	05/21/19 23:50	
EPA 6010	Cadmium	0.58J	ug/L	2.0	05/21/19 23:50	
EPA 6010	Chromium	2.8J	ug/L	10.0	05/21/19 23:50	
EPA 6010	Nickel	5.8J	ug/L	10.0	05/21/19 23:50	
EPA 6010	Zinc	12.7J	ug/L	20.0	05/21/19 23:50	
EPA 8270 by SIM	Acenaphthene	0.066J	ug/L	1.0	05/28/19 17:39	
EPA 8270 by SIM	1-Methylnaphthalene	0.38J	ug/L	1.0	05/28/19 17:39	
EPA 8270 by SIM	2-Methylnaphthalene	0.31J	ug/L	1.0	05/28/19 17:39	

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SUMMARY OF DETECTION

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50225468005	**SP-5 DUP**					
EPA 6010	Arsenic	12.1	ug/L	10.0	05/21/19 23:52	
EPA 6010	Barium	460	ug/L	10.0	05/21/19 23:52	
EPA 6010	Cadmium	0.59J	ug/L	2.0	05/21/19 23:52	
EPA 6010	Chromium	3.4J	ug/L	10.0	05/21/19 23:52	
EPA 6010	Nickel	6.8J	ug/L	10.0	05/21/19 23:52	
EPA 6010	Zinc	15.7J	ug/L	20.0	05/21/19 23:52	
EPA 8270 by SIM	1-Methylnaphthalene	0.47J	ug/L	1.0	05/28/19 17:50	
EPA 8270 by SIM	2-Methylnaphthalene	0.39J	ug/L	1.0	05/28/19 17:50	
EPA 8270 by SIM	Phenanthrene	0.053J	ug/L	1.0	05/28/19 17:50	
50225468006	**EQ Blank**					
EPA 6010	Zinc	1.6J	ug/L	20.0	05/24/19 22:58	
EPA 8270 by SIM	Naphthalene	0.096J	ug/L	1.0	05/28/19 18:01	
50225468008	**SP-4 FIELD FILTERED**					
EPA 6010	Arsenic	4.7J	ug/L	10.0	06/10/19 13:44	
EPA 6010	Lead	3.7J	ug/L	10.0	06/10/19 13:44	
50225468009	**SP-5 FIELD FILTERED**					
EPA 6010	Arsenic	10.2	ug/L	10.0	06/10/19 13:46	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:33	7440-36-0	
Arsenic	**8.2J**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:33	7440-38-2	
Barium	**276**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:33	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:33	7440-41-7	
Cadmium	**<0.44**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:33	7440-43-9	
Chromium	**<1.1**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:33	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:33	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:33	7439-92-1	
Nickel	**3.7J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:33	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:33	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:33	7440-22-4	
Zinc	**3.5J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:33	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 12:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 19:45	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 16:41	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 16:41	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 16:41	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 16:41	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 16:41	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 16:41	205-99-2	R1
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 16:41	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 16:41	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 16:41	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 16:41	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 16:41	206-44-0	R1
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 16:41	86-73-7	R1
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 16:41	193-39-5	
1-Methylnaphthalene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 16:41	90-12-0	
2-Methylnaphthalene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 16:41	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 16:41	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 16:41	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 16:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%.	10-83		1	05/22/19 09:23	05/28/19 16:41	321-60-8	
p-Terphenyl-d14 (S)	89	%.	28-125		1	05/22/19 09:23	05/28/19 16:41	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 20:11	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 20:11	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 20:11	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 20:11	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 20:11	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 20:11	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 20:11	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 20:11	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 20:11	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 20:11	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 20:11	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 20:11	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 20:11	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 20:11	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 20:11	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 20:11	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 20:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 20:11	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 20:11	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 20:11	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 20:11	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 20:11	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 20:11	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 20:11	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 20:11	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 20:11	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 20:11	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 20:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	85	%.	15-115		1	05/22/19 09:23	05/24/19 20:11	4165-60-0	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-1 **Lab ID: 50225468001** Collected: 05/17/19 11:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	40	%.	10-65		1	05/22/19 09:23	05/24/19 20:11	4165-62-2	
2-Fluorophenol (S)	58	%.	10-82		1	05/22/19 09:23	05/24/19 20:11	367-12-4	
2,4,6-Tribromophenol (S)	93	%.	29-134		1	05/22/19 09:23	05/24/19 20:11	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**3.9J**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:45	7440-36-0	
Arsenic	**10J**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:45	7440-38-2	
Barium	**203**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:45	7440-39-3	
Beryllium	**1.6J**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:45	7440-41-7	
Cadmium	**1.3J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:45	7440-43-9	
Chromium	**44.6**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:45	7440-47-3	
Copper	**18.1**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:45	7440-50-8	
Lead	**33.2**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:45	7439-92-1	
Nickel	**29.4**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:45	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:45	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:45	7440-22-4	
Zinc	**69.2**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**0.18J**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 19:58	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:16	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:16	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:16	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:16	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:16	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:16	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:16	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:16	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:16	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:16	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:16	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:16	193-39-5	
1-Methylnaphthalene	**0.065J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:16	90-12-0	
2-Methylnaphthalene	**0.071J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:16	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:16	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:16	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%.	10-83		1	05/22/19 09:23	05/28/19 17:16	321-60-8	
p-Terphenyl-d14 (S)	66	%.	28-125		1	05/22/19 09:23	05/28/19 17:16	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:00	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:00	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:00	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:00	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:00	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:00	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:00	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:00	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:00	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:00	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:00	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:00	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:00	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:00	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:00	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:00	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:00	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:00	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:00	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:00	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:00	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:00	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:00	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:00	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:00	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:00	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:00	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	15-115		1	05/22/19 09:23	05/24/19 21:00	4165-60-0	

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-3 **Lab ID: 50225468002** Collected: 05/17/19 13:10 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	45	%.	10-65		1	05/22/19 09:23	05/24/19 21:00	4165-62-2	
2-Fluorophenol (S)	59	%.	10-82		1	05/22/19 09:23	05/24/19 21:00	367-12-4	
2,4,6-Tribromophenol (S)	88	%.	29-134		1	05/22/19 09:23	05/24/19 21:00	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:47	7440-36-0	
Arsenic	**14.9**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:47	7440-38-2	
Barium	**607**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:47	7440-39-3	
Beryllium	**1.2J**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:47	7440-41-7	
Cadmium	**0.73J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:47	7440-43-9	
Chromium	**22.7**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:47	7440-47-3	
Copper	**24.3**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:47	7440-50-8	
Lead	**26.4**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:47	7439-92-1	
Nickel	**18.0**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:47	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:47	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:47	7440-22-4	
Zinc	**68.1**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**0.22J**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:00	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:27	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:27	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:27	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:27	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:27	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:27	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:27	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:27	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:27	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:27	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:27	206-44-0	
Fluorene	**0.080J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:27	193-39-5	
1-Methylnaphthalene	**10.6**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:27	90-12-0	
2-Methylnaphthalene	**18.1**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:27	91-57-6	
Naphthalene	**8.0**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:27	91-20-3	
Phenanthrene	**0.11J**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:27	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%.	10-83		1	05/22/19 09:23	05/28/19 17:27	321-60-8	
p-Terphenyl-d14 (S)	76	%.	28-125		1	05/22/19 09:23	05/28/19 17:27	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:17	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:17	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:17	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:17	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:17	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:17	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:17	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:17	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:17	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:17	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:17	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:17	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:17	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:17	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:17	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:17	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:17	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:17	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:17	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:17	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:17	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:17	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:17	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:17	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:17	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:17	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	101	%.	15-115		1	05/22/19 09:23	05/24/19 21:17	4165-60-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 **Lab ID: 50225468003** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	51	%.	10-65		1	05/22/19 09:23	05/24/19 21:17	4165-62-2	
2-Fluorophenol (S)	71	%.	10-82		1	05/22/19 09:23	05/24/19 21:17	367-12-4	
2,4,6-Tribromophenol (S)	119	%.	29-134		1	05/22/19 09:23	05/24/19 21:17	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:50	7440-36-0	
Arsenic	**12.4**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:50	7440-38-2	
Barium	**459**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:50	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:50	7440-41-7	
Cadmium	**0.58J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:50	7440-43-9	
Chromium	**2.8J**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:50	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:50	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:50	7439-92-1	
Nickel	**5.8J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:50	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:50	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:50	7440-22-4	
Zinc	**12.7J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:02	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**0.066J**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:39	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:39	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:39	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:39	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:39	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:39	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:39	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:39	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:39	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:39	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:39	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:39	193-39-5	
1-Methylnaphthalene	**0.38J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:39	90-12-0	
2-Methylnaphthalene	**0.31J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:39	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:39	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:39	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%.	10-83		1	05/22/19 09:23	05/28/19 17:39	321-60-8	
p-Terphenyl-d14 (S)	87	%.	28-125		1	05/22/19 09:23	05/28/19 17:39	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:33	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:33	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:33	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:33	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:33	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:33	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:33	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:33	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:33	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:33	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:33	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:33	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:33	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:33	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:33	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:33	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:33	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:33	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:33	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:33	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:33	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:33	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:33	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:33	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:33	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:33	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:33	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	88	%.	15-115		1	05/22/19 09:23	05/24/19 21:33	4165-60-0	

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 **Lab ID: 50225468004** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	48	%.	10-65		1	05/22/19 09:23	05/24/19 21:33	4165-62-2	
2-Fluorophenol (S)	64	%.	10-82		1	05/22/19 09:23	05/24/19 21:33	367-12-4	
2,4,6-Tribromophenol (S)	102	%.	29-134		1	05/22/19 09:23	05/24/19 21:33	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/21/19 13:28	05/21/19 23:52	7440-36-0	
Arsenic	**12.1**	ug/L	10.0	4.3	1	05/21/19 13:28	05/21/19 23:52	7440-38-2	
Barium	**460**	ug/L	10.0	0.66	1	05/21/19 13:28	05/21/19 23:52	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/21/19 13:28	05/21/19 23:52	7440-41-7	
Cadmium	**0.59J**	ug/L	2.0	0.44	1	05/21/19 13:28	05/21/19 23:52	7440-43-9	
Chromium	**3.4J**	ug/L	10.0	1.1	1	05/21/19 13:28	05/21/19 23:52	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/21/19 13:28	05/21/19 23:52	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/21/19 13:28	05/21/19 23:52	7439-92-1	
Nickel	**6.8J**	ug/L	10.0	1.0	1	05/21/19 13:28	05/21/19 23:52	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/21/19 13:28	05/21/19 23:52	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/21/19 13:28	05/21/19 23:52	7440-22-4	
Zinc	**15.7J**	ug/L	20.0	1.1	1	05/21/19 13:28	05/21/19 23:52	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/28/19 01:09	05/28/19 20:04	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 17:50	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:50	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 17:50	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:50	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 17:50	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 17:50	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 17:50	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 17:50	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 17:50	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 17:50	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 17:50	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 17:50	193-39-5	
1-Methylnaphthalene	**0.47J**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 17:50	90-12-0	
2-Methylnaphthalene	**0.39J**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 17:50	91-57-6	
Naphthalene	**<0.053**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 17:50	91-20-3	
Phenanthrene	**0.053J**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 17:50	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 17:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%.	10-83		1	05/22/19 09:23	05/28/19 17:50	321-60-8	
p-Terphenyl-d14 (S)	72	%.	28-125		1	05/22/19 09:23	05/28/19 17:50	1718-51-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:50	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 21:50	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:50	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 21:50	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 21:50	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 21:50	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 21:50	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 21:50	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 21:50	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 21:50	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 21:50	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 21:50	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 21:50	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 21:50	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 21:50	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 21:50	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 21:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 21:50	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:50	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 21:50	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 21:50	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 21:50	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 21:50	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 21:50	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 21:50	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 21:50	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 21:50	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 21:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	92	%.	15-115		1	05/22/19 09:23	05/24/19 21:50	4165-60-0	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 DUP **Lab ID: 50225468005** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	47	%.	10-65		1	05/22/19 09:23	05/24/19 21:50	4165-62-2	
2-Fluorophenol (S)	62	%.	10-82		1	05/22/19 09:23	05/24/19 21:50	367-12-4	
2,4,6-Tribromophenol (S)	100	%.	29-134		1	05/22/19 09:23	05/24/19 21:50	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Antimony	**<3.3**	ug/L	6.0	3.3	1	05/24/19 13:15	05/24/19 22:58	7440-36-0	
Arsenic	**<4.3**	ug/L	10.0	4.3	1	05/24/19 13:15	05/24/19 22:58	7440-38-2	
Barium	**<0.66**	ug/L	10.0	0.66	1	05/24/19 13:15	05/24/19 22:58	7440-39-3	
Beryllium	**<0.24**	ug/L	4.0	0.24	1	05/24/19 13:15	05/24/19 22:58	7440-41-7	
Cadmium	**<0.44**	ug/L	2.0	0.44	1	05/24/19 13:15	05/24/19 22:58	7440-43-9	
Chromium	**<1.1**	ug/L	10.0	1.1	1	05/24/19 13:15	05/24/19 22:58	7440-47-3	
Copper	**<2.7**	ug/L	10.0	2.7	1	05/24/19 13:15	05/24/19 22:58	7440-50-8	
Lead	**<3.5**	ug/L	10.0	3.5	1	05/24/19 13:15	05/24/19 22:58	7439-92-1	
Nickel	**<1.0**	ug/L	10.0	1.0	1	05/24/19 13:15	05/24/19 22:58	7440-02-0	
Selenium	**<5.2**	ug/L	10.0	5.2	1	05/24/19 13:15	05/24/19 22:58	7782-49-2	
Silver	**<1.2**	ug/L	10.0	1.2	1	05/24/19 13:15	05/24/19 22:58	7440-22-4	
Zinc	**1.6J**	ug/L	20.0	1.1	1	05/24/19 13:15	05/24/19 22:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Thallium	**<0.040**	ug/L	1.0	0.040	1	05/30/19 08:09	06/01/19 14:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Mercury	**<0.069**	ug/L	2.0	0.069	1	05/23/19 22:50	05/24/19 09:28	7439-97-6	
8270 100mL Combo RV	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Acenaphthene	**<0.032**	ug/L	1.0	0.032	1	05/22/19 09:23	05/28/19 18:01	83-32-9	
Acenaphthylene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 18:01	208-96-8	
Anthracene	**<0.040**	ug/L	0.10	0.040	1	05/22/19 09:23	05/28/19 18:01	120-12-7	
Benzo(a)anthracene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 18:01	56-55-3	
Benzo(a)pyrene	**<0.043**	ug/L	0.10	0.043	1	05/22/19 09:23	05/28/19 18:01	50-32-8	
Benzo(b)fluoranthene	**<0.038**	ug/L	0.10	0.038	1	05/22/19 09:23	05/28/19 18:01	205-99-2	
Benzo(g,h,i)perylene	**<0.029**	ug/L	0.10	0.029	1	05/22/19 09:23	05/28/19 18:01	191-24-2	
Benzo(k)fluoranthene	**<0.042**	ug/L	0.10	0.042	1	05/22/19 09:23	05/28/19 18:01	207-08-9	
Chrysene	**<0.056**	ug/L	0.50	0.056	1	05/22/19 09:23	05/28/19 18:01	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	ug/L	0.10	0.032	1	05/22/19 09:23	05/28/19 18:01	53-70-3	
Fluoranthene	**<0.029**	ug/L	1.0	0.029	1	05/22/19 09:23	05/28/19 18:01	206-44-0	
Fluorene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 18:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.031**	ug/L	0.10	0.031	1	05/22/19 09:23	05/28/19 18:01	193-39-5	
1-Methylnaphthalene	**<0.045**	ug/L	1.0	0.045	1	05/22/19 09:23	05/28/19 18:01	90-12-0	
2-Methylnaphthalene	**<0.044**	ug/L	1.0	0.044	1	05/22/19 09:23	05/28/19 18:01	91-57-6	
Naphthalene	**0.096J**	ug/L	1.0	0.053	1	05/22/19 09:23	05/28/19 18:01	91-20-3	
Phenanthrene	**<0.052**	ug/L	1.0	0.052	1	05/22/19 09:23	05/28/19 18:01	85-01-8	
Pyrene	**<0.034**	ug/L	1.0	0.034	1	05/22/19 09:23	05/28/19 18:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	42	%.	10-83		1	05/22/19 09:23	05/28/19 18:01	321-60-8	
p-Terphenyl-d14 (S)	60	%.	28-125		1	05/22/19 09:23	05/28/19 18:01	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Benzyl alcohol	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 22:06	100-51-6	
4-Bromophenylphenyl ether	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	101-55-3	
Butylbenzylphthalate	**<4.2**	ug/L	10.0	4.2	1	05/22/19 09:23	05/24/19 22:06	85-68-7	
4-Chloro-3-methylphenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 22:06	59-50-7	
4-Chloroaniline	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	106-47-8	
bis(2-Chloroethoxy)methane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	111-91-1	
bis(2-Chloroethyl) ether	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	111-44-4	
bis(2chloro1methylethyl) ether	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	108-60-1	
2-Chloronaphthalene	**<4.1**	ug/L	10.0	4.1	1	05/22/19 09:23	05/24/19 22:06	91-58-7	
2-Chlorophenol	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	95-57-8	
4-Chlorophenylphenyl ether	**<3.8**	ug/L	10.0	3.8	1	05/22/19 09:23	05/24/19 22:06	7005-72-3	
Dibenzofuran	**<3.6**	ug/L	10.0	3.6	1	05/22/19 09:23	05/24/19 22:06	132-64-9	
3,3'-Dichlorobenzidine	**<3.5**	ug/L	20.0	3.5	1	05/22/19 09:23	05/24/19 22:06	91-94-1	
2,4-Dichlorophenol	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	120-83-2	
Diethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	84-66-2	
2,4-Dimethylphenol	**<3.9**	ug/L	10.0	3.9	1	05/22/19 09:23	05/24/19 22:06	105-67-9	
Dimethylphthalate	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	131-11-3	
Di-n-butylphthalate	**<3.1**	ug/L	10.0	3.1	1	05/22/19 09:23	05/24/19 22:06	84-74-2	
4,6-Dinitro-2-methylphenol	**<4.9**	ug/L	20.0	4.9	1	05/22/19 09:23	05/24/19 22:06	534-52-1	
2,4-Dinitrophenol	**<3.8**	ug/L	50.0	3.8	1	05/22/19 09:23	05/24/19 22:06	51-28-5	
2,4-Dinitrotoluene	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	121-14-2	
2,6-Dinitrotoluene	**<3.4**	ug/L	10.0	3.4	1	05/22/19 09:23	05/24/19 22:06	606-20-2	
Di-n-octylphthalate	**<6.2**	ug/L	10.0	6.2	1	05/22/19 09:23	05/24/19 22:06	117-84-0	
bis(2-Ethylhexyl)phthalate	**<4.4**	ug/L	10.0	4.4	1	05/22/19 09:23	05/24/19 22:06	117-81-7	
Hexachloro-1,3-butadiene	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	87-68-3	
Hexachlorobenzene	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	118-74-1	
Hexachlorocyclopentadiene	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	77-47-4	
Hexachloroethane	**<2.6**	ug/L	10.0	2.6	1	05/22/19 09:23	05/24/19 22:06	67-72-1	
Isophorone	**<2.2**	ug/L	10.0	2.2	1	05/22/19 09:23	05/24/19 22:06	78-59-1	
2-Methylphenol(o-Cresol)	**<2.7**	ug/L	10.0	2.7	1	05/22/19 09:23	05/24/19 22:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06		
2-Nitroaniline	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	88-74-4	
3-Nitroaniline	**<3.0**	ug/L	10.0	3.0	1	05/22/19 09:23	05/24/19 22:06	99-09-2	
4-Nitroaniline	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 22:06	100-01-6	
Nitrobenzene	**<2.4**	ug/L	10.0	2.4	1	05/22/19 09:23	05/24/19 22:06	98-95-3	
2-Nitrophenol	**<2.8**	ug/L	10.0	2.8	1	05/22/19 09:23	05/24/19 22:06	88-75-5	
4-Nitrophenol	**<2.5**	ug/L	50.0	2.5	1	05/22/19 09:23	05/24/19 22:06	100-02-7	
N-Nitroso-di-n-propylamine	**<2.6**	ug/L	50.0	2.6	1	05/22/19 09:23	05/24/19 22:06	621-64-7	
N-Nitrosodiphenylamine	**<2.5**	ug/L	10.0	2.5	1	05/22/19 09:23	05/24/19 22:06	86-30-6	
Pentachlorophenol	**<1.9**	ug/L	50.0	1.9	1	05/22/19 09:23	05/24/19 22:06	87-86-5	
Phenol	**<1.7**	ug/L	10.0	1.7	1	05/22/19 09:23	05/24/19 22:06	108-95-2	
2,4,5-Trichlorophenol	**<2.9**	ug/L	10.0	2.9	1	05/22/19 09:23	05/24/19 22:06	95-95-4	
2,4,6-Trichlorophenol	**<3.2**	ug/L	10.0	3.2	1	05/22/19 09:23	05/24/19 22:06	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	59	%.	15-115		1	05/22/19 09:23	05/24/19 22:06	4165-60-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: EQ Blank **Lab ID: 50225468006** Collected: 05/17/19 14:50 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 SVOC Combo Water	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Initial Volume/Weight: 100 mL Final Volume/Weight: 1 mL								
Surrogates									
Phenol-d5 (S)	29	%.	10-65		1	05/22/19 09:23	05/24/19 22:06	4165-62-2	
2-Fluorophenol (S)	39	%.	10-82		1	05/22/19 09:23	05/24/19 22:06	367-12-4	
2,4,6-Tribromophenol (S)	70	%.	29-134		1	05/22/19 09:23	05/24/19 22:06	118-79-6	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-4 FIELD FILTERED **Lab ID: 50225468008** Collected: 05/17/19 13:45 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Arsenic	**4.7J**	ug/L	10.0	3.8	1	06/10/19 06:21	06/10/19 13:44	7440-38-2	
Lead	**3.7J**	ug/L	10.0	2.7	1	06/10/19 06:21	06/10/19 13:44	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 College / 19-146
Pace Project No.: 50225468

Sample: SP-5 FIELD FILTERED **Lab ID: 50225468009** Collected: 05/17/19 10:23 Received: 05/17/19 18:01 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Arsenic	**10.2**	ug/L	10.0	3.8	1	06/10/19 06:21	06/10/19 13:46	7440-38-2	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 501889 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

METHOD BLANK: 2315928 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.069	2.0	0.069	05/28/19 19:05	

LABORATORY CONTROL SAMPLE: 2315929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315930 2315931

Parameter	Units	50225442011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.3	93	86	75-125	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2315932 2315933

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.069	5	5	5.3	5.0	105	100	75-125	5	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502148 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50225468006

METHOD BLANK: 2317087 Matrix: Water
Associated Lab Samples: 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.069	2.0	0.069	05/24/19 09:22	

LABORATORY CONTROL SAMPLE: 2317088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2317089 2317090

Parameter	Units	50225773003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.9	97	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 501305 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

METHOD BLANK: 2313609 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<3.3	6.0	3.3	05/21/19 22:45	
Arsenic	ug/L	<4.3	10.0	4.3	05/21/19 22:45	
Barium	ug/L	<0.66	10.0	0.66	05/21/19 22:45	
Beryllium	ug/L	<0.24	4.0	0.24	05/21/19 22:45	
Cadmium	ug/L	<0.44	2.0	0.44	05/21/19 22:45	
Chromium	ug/L	<1.1	10.0	1.1	05/21/19 22:45	
Copper	ug/L	<2.7	10.0	2.7	05/21/19 22:45	
Lead	ug/L	<3.5	10.0	3.5	05/21/19 22:45	
Nickel	ug/L	<1.0	10.0	1.0	05/21/19 22:45	
Selenium	ug/L	<5.2	10.0	5.2	05/21/19 22:45	
Silver	ug/L	<1.2	10.0	1.2	05/21/19 22:45	
Zinc	ug/L	1.5J	20.0	1.1	05/21/19 22:45	

LABORATORY CONTROL SAMPLE: 2313610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Arsenic	ug/L	1000	971	97	80-120	
Barium	ug/L	1000	969	97	80-120	
Beryllium	ug/L	1000	986	99	80-120	
Cadmium	ug/L	1000	978	98	80-120	
Chromium	ug/L	1000	977	98	80-120	
Copper	ug/L	1000	958	96	80-120	
Lead	ug/L	1000	925	93	80-120	
Nickel	ug/L	1000	985	99	80-120	
Selenium	ug/L	1000	979	98	80-120	
Silver	ug/L	500	473	95	80-120	
Zinc	ug/L	1000	976	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313611 2313612

Parameter	Units	50225400001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	972	972	97	97	75-125	0	20	
Arsenic	ug/L	15.4	1000	1000	1010	1010	99	99	75-125	0	20	
Barium	ug/L	202	1000	1000	1160	1160	95	96	75-125	0	20	
Beryllium	ug/L	ND	1000	1000	955	960	95	96	75-125	0	20	
Cadmium	ug/L	2.1	1000	1000	981	987	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313611 2313612

Parameter	Units	50225400001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	57.8	1000	1000	967	976	91	92	75-125	1	20	
Copper	ug/L	95.5	1000	1000	1040	1040	94	95	75-125	0	20	
Lead	ug/L	137	1000	1000	956	961	82	82	75-125	1	20	
Nickel	ug/L	109	1000	1000	982	989	87	88	75-125	1	20	
Selenium	ug/L	ND	1000	1000	986	986	99	99	75-125	0	20	
Silver	ug/L	ND	500	500	486	488	97	98	75-125	1	20	
Zinc	ug/L	401	1000	1000	1280	1290	88	89	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2313613 2313614

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<3.3	1000	1000	1010	1010	101	101	75-125	0	20	
Arsenic	ug/L	8.2J	1000	1000	1020	1010	101	100	75-125	1	20	
Barium	ug/L	276	1000	1000	1250	1250	97	97	75-125	0	20	
Beryllium	ug/L	<0.24	1000	1000	981	988	98	99	75-125	1	20	
Cadmium	ug/L	<0.44	1000	1000	990	994	99	99	75-125	0	20	
Chromium	ug/L	<1.1	1000	1000	941	946	94	95	75-125	0	20	
Copper	ug/L	<2.7	1000	1000	956	952	95	95	75-125	0	20	
Lead	ug/L	<3.5	1000	1000	846	845	85	84	75-125	0	20	
Nickel	ug/L	3.7J	1000	1000	909	914	91	91	75-125	1	20	
Selenium	ug/L	<5.2	1000	1000	1000	1000	100	100	75-125	0	20	
Silver	ug/L	<1.2	500	500	488	488	98	98	75-125	0	20	
Zinc	ug/L	3.5J	1000	1000	942	944	94	94	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502070
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50225468006

METHOD BLANK: 2316804 Matrix: Water
Associated Lab Samples: 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	<3.3	6.0	3.3	05/24/19 22:35	
Arsenic	ug/L	<4.3	10.0	4.3	05/24/19 22:35	
Barium	ug/L	<0.66	10.0	0.66	05/24/19 22:35	
Beryllium	ug/L	<0.24	4.0	0.24	05/24/19 22:35	
Cadmium	ug/L	<0.44	2.0	0.44	05/24/19 22:35	
Chromium	ug/L	<1.1	10.0	1.1	05/24/19 22:35	
Copper	ug/L	<2.7	10.0	2.7	05/24/19 22:35	
Lead	ug/L	<3.5	10.0	3.5	05/24/19 22:35	
Nickel	ug/L	<1.0	10.0	1.0	05/24/19 22:35	
Selenium	ug/L	<5.2	10.0	5.2	05/24/19 22:35	
Silver	ug/L	<1.2	10.0	1.2	05/24/19 22:35	
Zinc	ug/L	2.2J	20.0	1.1	05/24/19 22:35	

LABORATORY CONTROL SAMPLE: 2316805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Arsenic	ug/L	1000	953	95	80-120	
Barium	ug/L	1000	977	98	80-120	
Beryllium	ug/L	1000	1010	101	80-120	
Cadmium	ug/L	1000	986	99	80-120	
Chromium	ug/L	1000	957	96	80-120	
Copper	ug/L	1000	957	96	80-120	
Lead	ug/L	1000	933	93	80-120	
Nickel	ug/L	1000	976	98	80-120	
Selenium	ug/L	1000	968	97	80-120	
Silver	ug/L	500	475	95	80-120	
Zinc	ug/L	1000	988	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316806 2316807

Parameter	Units	50225740008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	30.5	5000	5000	3290	3250	65	64	75-125	1	20	M3
Arsenic	ug/L	789	5000	5000	5330	5250	91	89	75-125	2	20	
Barium	ug/L	1940	5000	5000	6540	6500	92	91	75-125	1	20	
Beryllium	ug/L	21.5	5000	5000	4680	4670	93	93	75-125	0	20	
Cadmium	ug/L	13.8	5000	5000	4720	4670	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316806 2316807

Parameter	Units	50225740008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	752	5000	5000	5080	5020	87	85	75-125	1	20	
Copper	ug/L	1450	5000	5000	6080	5960	93	90	75-125	2	20	
Lead	ug/L	637	5000	5000	4490	4450	77	76	75-125	1	20	
Nickel	ug/L	766	5000	5000	4820	4780	81	80	75-125	1	20	
Selenium	ug/L	ND	5000	5000	4490	4500	90	90	75-125	0	20	
Silver	ug/L	ND	2500	2500	2370	2350	95	94	75-125	1	20	
Zinc	ug/L	2860	5000	5000	6990	6760	83	78	75-125	3	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 505173 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50225468008, 50225468009

METHOD BLANK: 2331106 Matrix: Water
Associated Lab Samples: 50225468008, 50225468009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<3.8	10.0	3.8	06/11/19 10:35	
Lead	ug/L	<2.7	10.0	2.7	06/11/19 10:35	

LABORATORY CONTROL SAMPLE: 2331107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1010	101	80-120	
Lead	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332014 2332015

Parameter	Units	50227311002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	220	1000	1000	1090	1080	87	86	75-125	1	20	
Lead	ug/L	246	1000	1000	914	911	67	66	75-125	0	20	M3

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 503006 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2321049 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Thallium	ug/L	<0.040	1.0	0.040	06/01/19 11:52	

LABORATORY CONTROL SAMPLE: 2321050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	40	40.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2321051 2321052

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	<0.040	40	40	40.5	41.5	101	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502357 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH Low Volume
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2318323 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.045	1.0	0.045	05/24/19 18:56	
2-Methylnaphthalene	ug/L	<0.044	1.0	0.044	05/24/19 18:56	
Acenaphthene	ug/L	<0.032	1.0	0.032	05/24/19 18:56	
Acenaphthylene	ug/L	<0.045	1.0	0.045	05/24/19 18:56	
Anthracene	ug/L	<0.040	0.10	0.040	05/24/19 18:56	
Benzo(a)anthracene	ug/L	<0.042	0.10	0.042	05/24/19 18:56	
Benzo(a)pyrene	ug/L	<0.043	0.10	0.043	05/24/19 18:56	
Benzo(b)fluoranthene	ug/L	<0.038	0.10	0.038	05/24/19 18:56	
Benzo(g,h,i)perylene	ug/L	<0.029	0.10	0.029	05/24/19 18:56	
Benzo(k)fluoranthene	ug/L	<0.042	0.10	0.042	05/24/19 18:56	
Chrysene	ug/L	<0.056	0.50	0.056	05/24/19 18:56	
Dibenz(a,h)anthracene	ug/L	<0.032	0.10	0.032	05/24/19 18:56	
Fluoranthene	ug/L	<0.029	1.0	0.029	05/24/19 18:56	
Fluorene	ug/L	<0.044	1.0	0.044	05/24/19 18:56	
Indeno(1,2,3-cd)pyrene	ug/L	<0.031	0.10	0.031	05/24/19 18:56	
Naphthalene	ug/L	<0.053	1.0	0.053	05/24/19 18:56	
Phenanthrene	ug/L	<0.052	1.0	0.052	05/24/19 18:56	
Pyrene	ug/L	<0.034	1.0	0.034	05/24/19 18:56	
2-Fluorobiphenyl (S)	%.	54	10-83		05/24/19 18:56	
p-Terphenyl-d14 (S)	%.	72	28-125		05/24/19 18:56	

LABORATORY CONTROL SAMPLE: 2318324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.4	54	20-92	
2-Methylnaphthalene	ug/L	10	5.3	53	18-98	
Acenaphthene	ug/L	10	5.8	58	21-102	
Acenaphthylene	ug/L	10	6.3	63	23-118	
Anthracene	ug/L	10	6.1	61	29-119	
Benzo(a)anthracene	ug/L	10	6.4	64	36-131	
Benzo(a)pyrene	ug/L	10	5.2	52	31-121	
Benzo(b)fluoranthene	ug/L	10	6.8	68	32-130	
Benzo(g,h,i)perylene	ug/L	10	4.5	45	23-118	
Benzo(k)fluoranthene	ug/L	10	5.4	54	33-127	
Chrysene	ug/L	10	6.0	60	41-118	
Dibenz(a,h)anthracene	ug/L	10	4.9	49	25-121	
Fluoranthene	ug/L	10	6.8	68	36-128	
Fluorene	ug/L	10	6.4	64	26-114	
Indeno(1,2,3-cd)pyrene	ug/L	10	5.1	51	26-119	
Naphthalene	ug/L	10	5.3	53	19-97	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

LABORATORY CONTROL SAMPLE: 2318324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.4	64	32-115	
Pyrene	ug/L	10	6.7	67	36-123	
2-Fluorobiphenyl (S)	%.			56	10-83	
p-Terphenyl-d14 (S)	%.			63	28-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318325 2318326

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.045	10	10	6.3	6.1	63	61	15-88	2	20	
2-Methylnaphthalene	ug/L	<0.044	10	10	6.1	6.0	61	60	19-92	3	20	
Acenaphthene	ug/L	<0.032	10	10	6.4	6.2	64	62	13-91	3	20	
Acenaphthylene	ug/L	<0.045	10	10	6.1	7.2	61	72	10-110	16	20	
Anthracene	ug/L	<0.040	10	10	6.9	7.1	69	71	18-111	3	20	
Benzo(a)anthracene	ug/L	<0.042	10	10	7.4	7.2	74	72	36-113	3	20	
Benzo(a)pyrene	ug/L	<0.043	10	10	6.1	6.7	61	67	22-92	9	20	
Benzo(b)fluoranthene	ug/L	<0.038	10	10	6.8	8.6	68	86	28-104	23	20	R1
Benzo(g,h,i)perylene	ug/L	<0.029	10	10	5.0	5.7	50	57	10-83	13	20	
Benzo(k)fluoranthene	ug/L	<0.042	10	10	6.3	5.7	63	57	19-98	9	20	
Chrysene	ug/L	<0.056	10	10	7.1	7.5	71	75	36-100	6	20	
Dibenz(a,h)anthracene	ug/L	<0.032	10	10	5.5	6.3	55	63	12-88	14	20	
Fluoranthene	ug/L	<0.029	10	10	5.2	11.2	52	112	41-114	74	20	R1
Fluorene	ug/L	<0.044	10	10	6.8	4.8	68	48	21-104	36	20	R1
Indeno(1,2,3-cd)pyrene	ug/L	<0.031	10	10	5.5	6.2	55	62	13-88	11	20	
Naphthalene	ug/L	<0.053	10	10	6.2	6.2	62	62	14-92	0	20	
Phenanthrene	ug/L	<0.052	10	10	6.6	6.5	66	65	29-105	1	20	
Pyrene	ug/L	<0.034	10	10	7.9	8.3	79	83	29-112	4	20	
2-Fluorobiphenyl (S)	%.						37	41	10-83			
p-Terphenyl-d14 (S)	%.						65	79	28-125			

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

QC Batch: 502356 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Scan LV
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

METHOD BLANK: 2318319 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	<2.9	10.0	2.9	05/24/19 17:43	
2,4,6-Trichlorophenol	ug/L	<3.2	10.0	3.2	05/24/19 17:43	
2,4-Dichlorophenol	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
2,4-Dimethylphenol	ug/L	<3.9	10.0	3.9	05/24/19 17:43	
2,4-Dinitrophenol	ug/L	<3.8	50.0	3.8	05/24/19 17:43	
2,4-Dinitrotoluene	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
2,6-Dinitrotoluene	ug/L	<3.4	10.0	3.4	05/24/19 17:43	
2-Chloronaphthalene	ug/L	<4.1	10.0	4.1	05/24/19 17:43	
2-Chlorophenol	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
2-Methylphenol(o-Cresol)	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
2-Nitroaniline	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
2-Nitrophenol	ug/L	<2.8	10.0	2.8	05/24/19 17:43	
3&4-Methylphenol(m&p Cresol)	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
3,3'-Dichlorobenzidine	ug/L	<3.5	20.0	3.5	05/24/19 17:43	
3-Nitroaniline	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
4,6-Dinitro-2-methylphenol	ug/L	<4.9	20.0	4.9	05/24/19 17:43	
4-Bromophenylphenyl ether	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
4-Chloro-3-methylphenol	ug/L	<2.9	10.0	2.9	05/24/19 17:43	
4-Chloroaniline	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
4-Chlorophenylphenyl ether	ug/L	<3.8	10.0	3.8	05/24/19 17:43	
4-Nitroaniline	ug/L	<2.8	10.0	2.8	05/24/19 17:43	
4-Nitrophenol	ug/L	<2.5	50.0	2.5	05/24/19 17:43	
Benzyl alcohol	ug/L	<2.4	10.0	2.4	05/24/19 17:43	
bis(2-Chloroethoxy)methane	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
bis(2-Chloroethyl) ether	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
bis(2-Ethylhexyl)phthalate	ug/L	<4.4	10.0	4.4	05/24/19 17:43	
bis(2chloro1methylethyl) ether	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Butylbenzylphthalate	ug/L	<4.2	10.0	4.2	05/24/19 17:43	
Di-n-butylphthalate	ug/L	<3.1	10.0	3.1	05/24/19 17:43	
Di-n-octylphthalate	ug/L	<6.2	10.0	6.2	05/24/19 17:43	
Dibenzofuran	ug/L	<3.6	10.0	3.6	05/24/19 17:43	
Diethylphthalate	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Dimethylphthalate	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Hexachloro-1,3-butadiene	ug/L	<3.0	10.0	3.0	05/24/19 17:43	
Hexachlorobenzene	ug/L	<2.7	10.0	2.7	05/24/19 17:43	
Hexachlorocyclopentadiene	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Hexachloroethane	ug/L	<2.6	10.0	2.6	05/24/19 17:43	
Isophorone	ug/L	<2.2	10.0	2.2	05/24/19 17:43	
N-Nitroso-di-n-propylamine	ug/L	<2.6	50.0	2.6	05/24/19 17:43	
N-Nitrosodiphenylamine	ug/L	<2.5	10.0	2.5	05/24/19 17:43	
Nitrobenzene	ug/L	<2.4	10.0	2.4	05/24/19 17:43	

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QUALITY CONTROL DATA

Project: 216 College / 19-146
Pace Project No.: 50225468

METHOD BLANK: 2318319 Matrix: Water
Associated Lab Samples: 50225468001, 50225468002, 50225468003, 50225468004, 50225468005, 50225468006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Pentachlorophenol	ug/L	<1.9	50.0	1.9	05/24/19 17:43	
Phenol	ug/L	<1.7	10.0	1.7	05/24/19 17:43	
2,4,6-Tribromophenol (S)	%.	98	29-134		05/24/19 17:43	
2-Fluorophenol (S)	%.	47	10-82		05/24/19 17:43	
Nitrobenzene-d5 (S)	%.	94	15-115		05/24/19 17:43	
Phenol-d5 (S)	%.	37	10-65		05/24/19 17:43	

LABORATORY CONTROL SAMPLE: 2318320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	88.4	88	10-142	
2-Chlorophenol	ug/L	100	60.1	60	18-105	
4-Chloro-3-methylphenol	ug/L	100	77.7	78	18-127	
4-Nitrophenol	ug/L	100	43.8J	44	10-87	
N-Nitroso-di-n-propylamine	ug/L	100	90.4	90	20-120	
Pentachlorophenol	ug/L	100	97.8	98	21-141	
Phenol	ug/L	100	32.3	32	10-62	
2,4,6-Tribromophenol (S)	%.			87	29-134	
2-Fluorophenol (S)	%.			46	10-82	
Nitrobenzene-d5 (S)	%.			90	15-115	
Phenol-d5 (S)	%.			36	10-65	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318321 2318322

Parameter	Units	50225468001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/L	<2.6	100	100	96.1	93.5	96	93	10-134	3	20	
2-Chlorophenol	ug/L	<2.7	100	100	85.1	84.1	85	84	13-95	1	20	
4-Chloro-3-methylphenol	ug/L	<2.9	100	100	110	108	110	108	15-119	2	20	
4-Nitrophenol	ug/L	<2.5	100	100	58.8	57.3	59	57	10-76	3	20	
N-Nitroso-di-n-propylamine	ug/L	<2.6	100	100	95.3	92.3	95	92	12-111	3	20	
Pentachlorophenol	ug/L	<1.9	100	100	119	114	119	114	21-132	4	20	
Phenol	ug/L	<1.7	100	100	41.1	41.0	41	41	10-52	0	20	
2,4,6-Tribromophenol (S)	%.						92	95	29-134			
2-Fluorophenol (S)	%.						59	58	10-82			
Nitrobenzene-d5 (S)	%.						88	91	15-115			
Phenol-d5 (S)	%.						41	41	10-65			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 216 College / 19-146
Pace Project No.: 50225468

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R1	RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225468

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Water	SW-846 6010B	SW-846 3010A
6020 MET ICPMS	Water	SW-846 6020	SW-846 3010A
7470 Mercury	Water	SW-846 7470A	SW-846 7470A
8270 100mL Combo RV	Water	SW-846 8270C	SW-846 3510C
8270 SVOC Combo Water	Water	SW-846 8270C	SW-846 3510C

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 College / 19-146
Pace Project No.: 50225468

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50225468001	**SP-1**	EPA 3010	501305	EPA 6010	501704
50225468002	**SP-3**	EPA 3010	501305	EPA 6010	501704
50225468003	**SP-4**	EPA 3010	501305	EPA 6010	501704
50225468004	**SP-5**	EPA 3010	501305	EPA 6010	501704
50225468005	**SP-5 DUP**	EPA 3010	501305	EPA 6010	501704
50225468006	**EQ Blank**	EPA 3010	502070	EPA 6010	502565
50225468008	**SP-4 FIELD FILTERED**	EPA 3010	505173	EPA 6010	505441
50225468009	**SP-5 FIELD FILTERED**	EPA 3010	505173	EPA 6010	505441
50225468001	**SP-1**	EPA 200.2	503006	EPA 6020	503481
50225468002	**SP-3**	EPA 200.2	503006	EPA 6020	503481
50225468003	**SP-4**	EPA 200.2	503006	EPA 6020	503481
50225468004	**SP-5**	EPA 200.2	503006	EPA 6020	503481
50225468005	**SP-5 DUP**	EPA 200.2	503006	EPA 6020	503481
50225468006	**EQ Blank**	EPA 200.2	503006	EPA 6020	503481
50225468001	**SP-1**	EPA 7470	501889	EPA 7470	502925
50225468002	**SP-3**	EPA 7470	501889	EPA 7470	502925
50225468003	**SP-4**	EPA 7470	501889	EPA 7470	502925
50225468004	**SP-5**	EPA 7470	501889	EPA 7470	502925
50225468005	**SP-5 DUP**	EPA 7470	501889	EPA 7470	502925
50225468006	**EQ Blank**	EPA 7470	502148	EPA 7470	502319
50225468001	**SP-1**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468002	**SP-3**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468003	**SP-4**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468004	**SP-5**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468005	**SP-5 DUP**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468006	**EQ Blank**	EPA 3510	502357	EPA 8270 by SIM	502532
50225468001	**SP-1**	EPA 3510	502356	EPA 8270	502531
50225468002	**SP-3**	EPA 3510	502356	EPA 8270	502531
50225468003	**SP-4**	EPA 3510	502356	EPA 8270	502531
50225468004	**SP-5**	EPA 3510	502356	EPA 8270	502531
50225468005	**SP-5 DUP**	EPA 3510	502356	EPA 8270	502531
50225468006	**EQ Blank**	EPA 3510	502356	EPA 8270	502531

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

50225468

ALL SHADED AREAS are for LAB USE ONLY

Company: BCA Environmental	Billing Information:
Address: 12026 87th St.	
Report To: JTenschler	Email To: JTenschler
Copy To: RManny@BCAConsultants.com	Site Collection Info/Address: 216 S College
Customer Project Name/Number: 19-146	State: IN County/City: Monroe Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [✓] No
Collected By (print): Rod Manny	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Rod Manny	Turnaround Date Required: STD Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [✓] Hold: Filtered metals	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [✓] Yes [ ] No Analysis: 14 Metals

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: U | | 1 | | 1 | | B | | |

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	SVOCs + PAHs 8270 + SIM	14 Metals	14 Metals (Field Filtered *)	Cr VI 7199			Lab Sample # / Comments
** SP-1	GW	G	5.17.19	1145				14	X	X	X	X			001 007
SP-3				1310				5	X	X		X			002
SP-4				1345				5	X	X	X	X			003 008
SP-5				1023				5	X	X	X	X			004 009
SP-5 DUP				1023				4	X	X		X			005
Equipment Blank 5/21/19 RMB									X	X		X			006

Lab Profile/Line:

Lab Sample Receipt Checklist: See Scan

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
* Hold Filtered until Analysis Pending
** MS/MSD

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2397500

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: (Y) N NA
Therm ID#: E
Cooler 1 Temp Upon Receipt: 1.5 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 1.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rod Manny/BCA	5/17/19 1801		5/17/19 1801
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Lucas Dawson LMC	5/17/19		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50225468

Date/Time and Initials of person examining contents: LWG 1830 5/17/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A B C D (E) F Ice Type: ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☑ Yes ☐ No ☐ N/A

Cooler Temperature: 1.5/1.5 Ice Visible in Sample Containers?: ☐ Yes ☑ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☑ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			+ GWG
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: (HNO3) H2SO4 NaOH NaOH/ZnAc	✓		
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:	✓		+ LWG
Short Hold Time Analysis (<72hr)?: **Analysis:**		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:		✓		Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested:			Headspace in VOA Vials (>6mm):			
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓	Trip Blank Custody Seals?:		✓	

Comments: Missing SP-3 Cr VI Sample. - LWG 5/17/19 EQ blank not on COC - LWG 5/17/19
This ↑ is correct - ~~not~~ no SP-3 CrVI 5/20/19 RRB
Analyze CrVI groundwater, per Rob Manny 5/21/19 RRB
Analyze equipment blank for all parameters 5/21/19 RRB

Analyze field filtered SP-4 As & Pb and SP-5 As per Jacob T. 6/7/19 RRB

Sample Container Count

WO# : 50225468

50225468

CLIENT: BCA

COC PAGE 1 of 1

COC ID# 2397500

Project # 50225468

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Bulk Kit SRS	GNX	Date	Time	Matrix SI/ (Soil/Wate Aqueous	pH <2	pH >9	pH>12
1		6												4					3			WT	✓		
2		2												1					0						
3		2												2					1						
4		|												2					1						
5		|												1					1						
6		|												1					1	5/17	1450	|	|		
7																									
8																									
9																									
10																									
11																									
12																									

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic
BP2O	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

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National Center for Testing & Innovation

ANALYTICAL REPORT

May 30, 2019

Pace Analytical - Indianapolis, IN

Sample Delivery Group:	L1101712
Samples Received:	05/23/2019
Project Number:	50225468
Description:	216 College / 19-146

Report To: Regina Bedel
7726 Moller Rd.
Indianapolis, IN 46268

Entire Report Reviewed By: Nancy F. McLain

Nancy McLain
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

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SP-4 L1101712-02 6

SP-5 L1101712-03 7

SP-5 DUP L1101712-04 8

EQ BLANK L1101712-05 9

Qc: Quality Control Summary 10

Wet Chemistry by Method 7199 10

Gl: Glossary of Terms 11

Al: Accreditations & Locations 12

Sc: Sample Chain of Custody 13

SP-1 L1101712-01 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 11:45	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 18:29	05/29/19 18:29	GB	Mt. Juliet, TN

SP-4 L1101712-02 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 13:45	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 21:04	05/29/19 21:04	GB	Mt. Juliet, TN

SP-5 L1101712-03 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 10:23	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:08	05/29/19 19:08	GB	Mt. Juliet, TN

SP-5 DUP L1101712-04 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 10:23	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:23	05/29/19 19:23	GB	Mt. Juliet, TN

EQ BLANK L1101712-05 GW

			Collected by	Collected date/time	Received date/time	
				05/17/19 14:50	05/23/19 08:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:32	05/29/19 19:32	GB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy F. McLain

Nancy McLain
Project Manager

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1101712-01	SP-1	7199
L1101712-02	SP-4	7199
L1101712-03	SP-5	7199
L1101712-04	SP-5 DUP	7199
L1101712-05	EQ BLANK	7199

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.224	J6	0.0200	0.0600	1	05/29/2019 18:29	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.0539	J P1	0.0200	0.0600	1	05/29/2019 21:04	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.124		0.0200	0.0600	1	05/29/2019 19:08	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.0999		0.0200	0.0600	1	05/29/2019 19:23	WG1287501

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium-Low Level	0.135		0.0200	0.0600	1	05/29/2019 19:32	WG1287501

Method Blank (MB)

(MB) R3416028-1 05/29/19 17:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexavalent Chromium-Low Level	U		0.0200	0.0600

L1101712-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1101712-02 05/29/19 21:04 • (DUP) R3416028-7 05/29/19 21:13

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium-Low Level	0.0539	0.0266	1	67.8	J P1	20

Laboratory Control Sample (LCS)

(LCS) R3416028-2 05/29/19 18:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium-Low Level	0.500	0.499	99.8	90.0-110	

L1101712-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1101712-01 05/29/19 18:29 • (MS) R3416028-3 05/29/19 18:38 • (MSD) R3416028-4 05/29/19 18:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium-Low Level	1.00	0.224	1.04	1.03	81.1	80.9	1	90.0-110	J6	J6	0.222	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

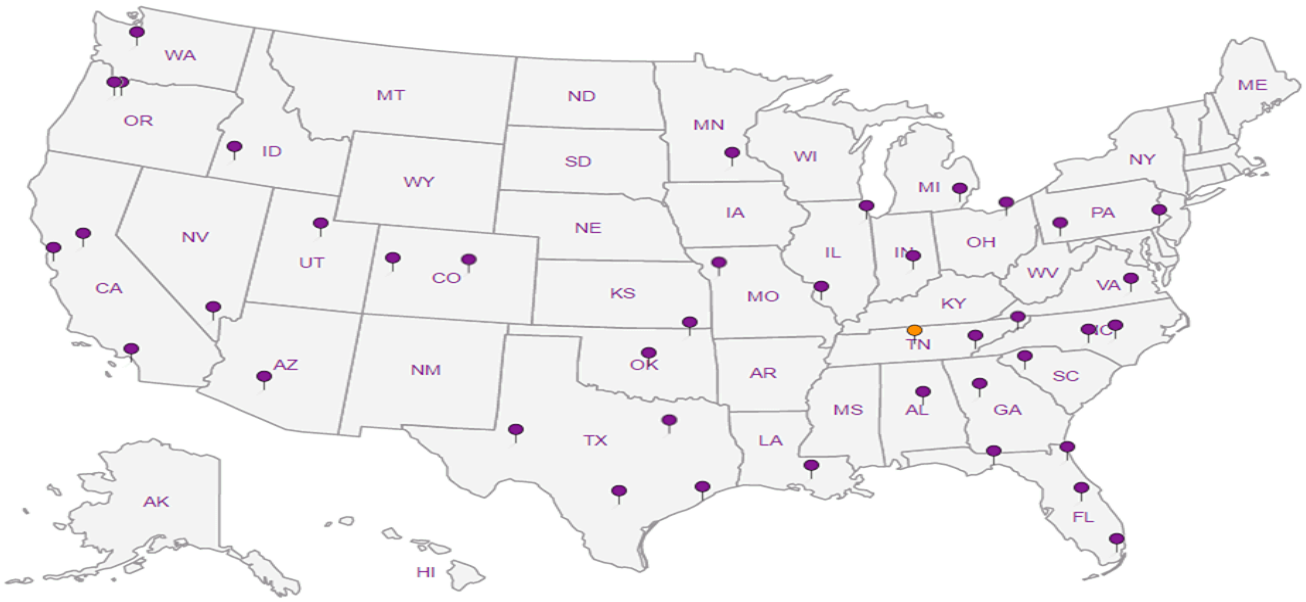
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody

Pace Analytical®
www.pacelabs.com

A116

Workorder: 50225468 **Workorder Name:** 216 College / 19-146 **Results Requested By:** 6/4/2019

Report / Invoice To	Subcontract To
Regina Bedel Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100 Email: regina.bedel@pacelabs.com	Pace National 12065 Lebanon Rd Mt Juliet, TN 37122 P.O. 50225468

State of Sample Origin: IN

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	7199 CR6 LLFFP + MS/MSD	7199 CR6 LLFFP	LAB USE ONLY
1	SP-1	5/17/2019 11:45	50225468001	Water	3	X		-01
2	SP-4	5/17/2019 13:45	50225468003	Water	1		X	-02
3	SP-5	5/17/2019 10:23	50225468004	Water	1		X	-03
4	SP-5 DUP	5/17/2019 10:23	50225468005	Water	1		X	-04
5	EQ Blank	5/17/2019 14:50	50225468006	Water	1		X	-05

L1101712

Transfers	Released By	Date/Time	Received By	Date/Time
1		5-22-19 1649		5-23-19 8:45
2				
3				

Comments: OK

Cooler Temperature on Receipt 3.4±0 °C 3.4 A39F | Custody Seal Y or N 4893 0206 3376 | Received on Ice (Y) or N | Samples Intact (Y) or N

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEEEN	SDG#:	L1101712	
Cooler Received/Opened On: 5/23/19	Temperature:	3.4	
Received By: Lexxi Romero			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

MSSV FULL SCAN - FORM II SVOA-1
WATER SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Instrument ID: 50MSS2

LAB SAMPLE ID	SAMPLE NAME	24B6	2FPH	NIT5	PHD5
2318319	2318319BLANK	98	47	94	37
2318320	2318320LCS	87	46	90	36
2318321	2318321MS	92	59	88	41
2318322	2318322MSD	95	58	91	41
50225468001	SP-1	93	58	85	40
50225468002	SP-3	88	59	81	45
50225468003	SP-4	119	71	101	51
50225468004	SP-5	102	64	88	48
50225468005	SP-5 DUP	100	62	92	47
50225468006	EQ Blank	70	39	59	29

	QC LIMITS
(24B6) = 2,4,6-Tribromophenol (S)	(29-134)
(2FPH) = 2-Fluorophenol (S)	(10-82)
(NIT5) = Nitrobenzene-d5 (S)	(15-115)
(PHD5) = Phenol-d5 (S)	(10-65)

* Values outside of QC Limits

MSSV FULL SCAN - FORM III SVOA-1
WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 2318320LCS
Date Extracted: 05/22/2019
Date Analyzed (1): 05/24/2019
Instrument: 50MSS2
LCS Lot No: 205376
Lab File ID: 052419.B\2318320L.D
SDG No.: 50225468

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
4-Chloro-3-methylphenol	100	77.7	78	18-127
2-Chlorophenol	100	60.1	60	18-105
2,4-Dinitrotoluene	100	88.4	88	10-142
4-Nitrophenol	100	43.8J	44	10-87
N-Nitroso-di-n-propylamine	100	90.4	90	20-120
Pentachlorophenol	100	97.8	98	21-141
Phenol	100	32.3	32	10-62

Spike Recovery: 0 out of 7 outside limits.

MSSV FULL SCAN - FORM III SVOA-1

WATER SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 2318321MS

Date Extracted: 05/22/2019

Date Analyzed (1): 05/24/2019

Instrument: 50MSS2

Lab File ID: 052419.B\2318321M.D

Parent Sample ID: SP-1

SDG No.: 50225468

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
2,4-Dinitrotoluene	100	<2.6	96.1	96	10-134
2-Chlorophenol	100	<2.7	85.1	85	13-95
4-Chloro-3-methylphenol	100	<2.9	110	110	15-119
4-Nitrophenol	100	<2.5	58.8	59	10-76
N-Nitroso-di-n-propylamine	100	<2.6	95.3	95	12-111
Pentachlorophenol	100	<1.9	119	119	21-132
Phenol	100	<1.7	41.1	41	10-52

Spike Recovery: 0 out of 7 outside limits.

MSSV FULL SCAN - FORM III SVOA-2

WATER SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSS2 Matrix Spike Duplicate - Sample No: 2318322MSD

Lab File ID (2): 052419.B\2318322D.D Date Analyzed (2): 05/24/2019

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
2,4-Dinitrotoluene	100	93.5	93	3	0-20	10-134
2-Chlorophenol	100	84.1	84	1	0-20	13-95
4-Chloro-3-methylphenol	100	108	108	2	0-20	15-119
4-Nitrophenol	100	57.3	57	3	0-20	10-76
N-Nitroso-di-n-propylamine	100	92.3	92	3	0-20	12-111
Pentachlorophenol	100	114	114	4	0-20	21-132
Phenol	100	41.0	41	0	0-20	10-52

RPD: 0 out of 7 outside limits.

Spike Recovery: 0 out of 7 outside limits.

SAMPLE NO.

2318319BLANK

MSSV FULL SCAN - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Instrument ID: 50MSS2 Matrix: Water Lab Sample ID: 2318319

Lab File ID: 052419.B\2318319B.D Date Analyzed: 05/24/2019 Time: 17:43

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
2318320LCS	2318320	052419.B\2318320L.D	05/24/2019 17:59
SP-1	50225468001	052419.B\50225468001.D	05/24/2019 20:11
2318321MS	2318321	052419.B\2318321M.D	05/24/2019 20:27
2318322MSD	2318322	052419.B\2318322D.D	05/24/2019 20:44
SP-3	50225468002	052419.B\50225468002.D	05/24/2019 21:00
SP-4	50225468003	052419.B\50225468003.D	05/24/2019 21:17
SP-5	50225468004	052419.B\50225468004.D	05/24/2019 21:33
SP-5 DUP	50225468005	052419.B\50225468005.D	05/24/2019 21:50
EQ Blank	50225468006	052419.B\50225468006.D	05/24/2019 22:06

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146
Lab File ID: 043019CAL.B\DFTPP.D DFTPP Injection Date: 04/30/2019
Instrument ID: 50MSS2 DFTPP Injection Time: 14:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	34.90	
68	Less than 2.00% of mass 69	0.63	(1.77)[1]
69	Mass 69 relative abundance	35.64	
70	Less than 2.00% of mass 69	0.14	(0.41)[1]
127	40.00 - 60.00% of mass 198	42.48	
197	Less than 1.00% of mass 198	0.30	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	6.78	
275	10.00 - 30.00% of mass 198	24.60	
365	Greater than 1.00% of mass 198	3.03	
441	Present, but less than mass 443	14.63	
442	Greater than 40.00% of mass 198	96.13	
443	17.00 - 23.00% of mass 442	19.62	(20.41)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
14956453CAL4	14956453CAL4	043019CAL.B\CAL4.D	04/30/2019	14:48
14956433CAL1	14956433CAL1	043019CAL.B\CAL1.D	04/30/2019	15:05
14956451CAL2	14956451CAL2	043019CAL.B\CAL2.D	04/30/2019	15:22
14956452CAL3	14956452CAL3	043019CAL.B\CAL3.D	04/30/2019	15:40
14956454CAL5	14956454CAL5	043019CAL.B\CAL5.D	04/30/2019	15:57
14956455CAL6	14956455CAL6	043019CAL.B\CAL6.D	04/30/2019	16:14
14956456CAL7	14956456CAL7	043019CAL.B\CAL7.D	04/30/2019	16:31
14956458ICV	14956458ICV	043019CAL.B\ICV.D	04/30/2019	18:32

MSSV Full Scan - FORM V SVOA-1
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146
Lab File ID: 052419.B\DFTPP.D DFTPP Injection Date: 05/24/2019
Instrument ID: 50MSS2 DFTPP Injection Time: 15:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.00 - 60.00% of mass 198	36.76	
68	Less than 2.00% of mass 69	0.61	(1.65)[1]
69	Mass 69 relative abundance	37.29	
70	Less than 2.00% of mass 69	0.10	(0.25)[1]
127	40.00 - 60.00% of mass 198	41.90	
197	Less than 1.00% of mass 198	0.40	
198	Base Peak, 100.00% relative	100.00	
199	5.00 - 9.00% of mass 198	6.90	
275	10.00 - 30.00% of mass 198	25.07	
365	Greater than 1.00% of mass 198	2.91	
441	Present, but less than mass 443	14.18	
442	Greater than 40.00% of mass 198	96.09	
443	17.00 - 23.00% of mass 442	19.43	(20.22)[2]

1 - Value is % mass 69 2 - Value is % mass 442

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15123996CCV	15123996CCV	052419.B\CCV050.D	05/24/2019	15:43
2318319BLANK	2318319BLANK	052419.B\2318319B.D	05/24/2019	17:43
2318320LCS	2318320LCS	052419.B\2318320L.D	05/24/2019	17:59
SP-1	50225468001	052419.B\50225468001.D	05/24/2019	20:11
2318321MS	2318321MS	052419.B\2318321M.D	05/24/2019	20:27
2318322MSD	2318322MSD	052419.B\2318322D.D	05/24/2019	20:44
SP-3	50225468002	052419.B\50225468002.D	05/24/2019	21:00
SP-4	50225468003	052419.B\50225468003.D	05/24/2019	21:17
SP-5	50225468004	052419.B\50225468004.D	05/24/2019	21:33
SP-5 DUP	50225468005	052419.B\50225468005.D	05/24/2019	21:50
EQ Blank	50225468006	052419.B\50225468006.D	05/24/2019	22:06

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15123996CCV Date Analyzed: 05/24/2019

Instrument ID: 50MSS2 GC Column: Col 1 Time Analyzed: 15:43

Lab File ID: 052419.B\CCV050.D

		AREA ANT	RT	AREA ANTSIM	RT	AREA CRY	RT	AREA DCB	RT
12 HOUR STD		249054	6.38	286086	6.383	598527	10.483	87769	2.753
UPPER LIMIT		498108	6.88	572172	6.883	1197054	10.983	175538	3.253
LOWER LIMIT		124527	5.88	143043	5.883	299263.5	9.983	43884.5	2.253
LAB SAMPLE ID	SAMPLE NO.								
2318319	2318319BLANK	152256	6.38	166662	6.374	348720	10.474	55765	2.753
2318320	2318320LCS	170575	6.38	194031	6.382	382937	10.475	64206	2.753
2318321	2318321MS	189347	6.38	209576	6.383	421618	10.474	69686	2.76
2318322	2318322MSD	184197	6.38	203182	6.374	410697	10.474	68855	2.753
50225468001	SP-1	172574	6.38	195112	6.374	393608	10.474	66525	2.76
50225468002	SP-3	190008	6.38	211769	6.374	444959	10.475	64455	2.745
50225468003	SP-4	194581	6.38	216669	6.374	454085	10.474	65998	2.745
50225468004	SP-5	203707	6.38	235648	6.374	481662	10.474	75795	2.753
50225468005	SP-5 DUP	192548	6.38	218696	6.383	446552	10.474	72010	2.753
50225468006	EQ Blank	210066	6.38	245351	6.382	481357	10.474	78671	2.753

ANT = Acenaphthene-d10 (IS)
ANTSIM = Acenaphthene-d10 (IS)(SIM)
CRY = Chrysene-d12 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15123996CCV Date Analyzed: 05/24/2019

Instrument ID: 50MSS2 GC Column: Col 1 Time Analyzed: 15:43

Lab File ID: 052419.B\CCV050.D

		AREA DCBSIM	RT	AREA NPT	RT	AREA PHN	RT	AREA PHNSIM	RT
12 HOUR STD		109082	2.755	382585	4.365	560047	7.875	611643	7.878
UPPER LIMIT		218164	3.255	765170	4.865	1120094	8.375	1223286	8.378
LOWER LIMIT		54541	2.255	191292.5	3.865	280023.5	7.375	305821.5	7.378
LAB SAMPLE ID	SAMPLE NO.								
2318319	2318319BLANK	69045	2.756	222078	4.374	325461	7.876	365388	7.872
2318320	2318320LCS	78128	2.755	260876	4.374	371356	7.875	427574	7.878
2318321	2318321MS	84908	2.763	278806	4.374	411802	7.876	465753	7.872
2318322	2318322MSD	83970	2.756	270829	4.374	405301	7.876	455625	7.878
50225468001	SP-1	79999	2.763	257628	4.374	381474	7.876	436694	7.878
50225468002	SP-3	82422	2.748	276737	4.365	414658	7.875	477239	7.872
50225468003	SP-4	82082	2.748	277089	4.365	415426	7.876	473287	7.872
50225468004	SP-5	92174	2.748	309376	4.365	447146	7.876	521271	7.878
50225468005	SP-5 DUP	86163	2.755	289763	4.374	428027	7.875	480296	7.872
50225468006	EQ Blank	97429	2.755	320701	4.374	455081	7.875	537116	7.878

DCBSIM = 1,4-Dichlorobenzene (IS)(SIM)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)
PHNSIM = Phenanthrene-d10 (IS)(SIM)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VIII SVOA-1
MSSV FULL SCAN INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15123996CCV Date Analyzed: 05/24/2019

Instrument ID: 50MSS2 GC Column: Col 1 Time Analyzed: 15:43

Lab File ID: 052419.B\CCV050.D

		AREA PYL	RT
12 HOUR STD		572926	11.869
UPPER LIMIT		1145852	12.369
LOWER LIMIT		286463	11.369
LAB SAMPLE ID	SAMPLE NO.		
2318319	2318319BLANK	422562	11.86
2318320	2318320LCS	446928	11.861
2318321	2318321MS	464983	11.86
2318322	2318322MSD	468880	11.86
50225468001	SP-1	443869	11.86
50225468002	SP-3	509590	11.861
50225468003	SP-4	508743	11.86
50225468004	SP-5	557039	11.864
50225468005	SP-5 DUP	506193	11.86
50225468006	EQ Blank	549484	11.86

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV FULL SCAN - FORM VI SVOA-1

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS2 GC Column: Col 1 SDG No.: 50225468

Calibration Date(s): 04/30/2019 04/30/2019 Calibration Time(s): 14:48 16:31

LAB FILE ID

CAL1 = 043019CAL.B\CAL1.D CAL2 = 043019CAL.B\CAL2.D CAL3 = 043019CAL.B\CAL3.D

CAL4 = 043019CAL.B\CAL4.D CAL5 = 043019CAL.B\CAL5.D CAL6 = 043019CAL.B\CAL6.D

CAL7 = 043019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Benzyl alcohol	Averaged	0.77063	0.81371	0.75479	0.85828	0.89644	0.90667
4-Bromophenylphenyl ether	Averaged	0.17858	0.18723	0.20833	0.19415	0.20935	0.20003
Butylbenzylphthalate	Wt Linear	0.30070	0.38786	0.43484	0.47923	0.51057	0.51469
4-Chloro-3-methylphenol	Averaged	0.21701	0.26711	0.29413	0.30918	0.31427	0.32541
4-Chloroaniline	Averaged	0.37464	0.39598	0.39291	0.45674	0.43682	0.44338
bis(2-Chloroethoxy)methane	Averaged	0.34913	0.38106	0.41613	0.40369	0.40618	0.40467
bis(2-Chloroethyl) ether	Averaged	1.27655	1.27817	1.26967	1.23060	1.27561	1.26829
bis(2chloro1methylethyl) ether	Averaged	2.62868	2.54109	2.53836	2.36683	2.47467	2.64420
2-Chloronaphthalene	Averaged	0.95245	1.12287	1.13283	1.05778	1.11357	1.04806
2-Chlorophenol	Averaged	1.31492	1.32565	1.34182	1.37289	1.36819	1.41492
4-Chlorophenylphenyl ether	Averaged	0.68786	0.71801	0.76347	0.72220	0.75747	0.71162
Dibenzofuran	Averaged	1.64265	1.76377	1.77622	1.73874	1.78770	1.74892
3,3'-Dichlorobenzidine	Wt Linear	0.29537	0.35819	0.39755	0.45800	0.46133	0.46990
2,4-Dichlorophenol	Averaged	0.21569	0.25875	0.29202	0.30640	0.30341	0.30595
Diethylphthalate	Wt Linear	1.23762	1.33923	1.72603	1.72908	1.91894	1.95211
2,4-Dimethylphenol	Averaged	0.23853	0.27629	0.29063	0.29360	0.29389	0.30362
Dimethylphthalate	Averaged	1.24897	1.42541	1.42877	1.37620	1.41276	1.35962
Di-n-butylphthalate	Wt Linear	0.94031	1.12231	1.37743	1.28210	1.52562	1.40617
4,6-Dinitro-2-methylphenol	Wt Linear	0.04254	0.06939	0.08980	0.12440	0.12234	0.12506
2,4-Dinitrophenol	Wt Linear	0.06715	0.09716	0.12882	0.20531	0.21428	0.22093
2,4-Dinitrotoluene	Wt Linear	0.24304	0.34193	0.39050	0.44244	0.45326	0.42930
2,6-Dinitrotoluene	Averaged	0.22314	0.27010	0.30399	0.32085	0.31649	0.32677
Di-n-octylphthalate	Wt Linear	0.58647	0.81659	0.97976	1.27018	1.23251	1.23007
bis(2-Ethylhexyl)phthalate	Wt Linear	0.43208	0.58157	0.66842	0.72631	0.76144	0.75495
Hexachloro-1,3-butadiene	Averaged	0.21660	0.22197	0.22927	0.22055	0.21399	0.20764
Hexachlorobenzene	Averaged	0.22099	0.23036	0.22770	0.22794	0.22499	0.22149
Hexachlorocyclopentadiene	Averaged	0.25011	0.29991	0.33332	0.35396	0.38817	0.38473
Hexachloroethane	Averaged	0.57431	0.62671	0.66924	0.65802	0.57783	0.66826
Isophorone	Averaged	0.57039	0.60837	0.68086	0.68076	0.66448	0.71801
2-Methylphenol(o-Cresol)	Averaged	1.08955	1.12223	1.28212	1.25701	1.24263	1.33003
3&4-Methylphenol(m&p Cresol)	Averaged	1.08120	1.21881	1.31025	1.33762	1.31192	1.46045
2-Nitroaniline	Wt Linear	0.18233	0.23311	0.32629	0.34293	0.38434	0.37138
3-Nitroaniline	Wt Linear	0.18864	0.21988	0.28671	0.32338	0.33002	0.32014
4-Nitroaniline	Wt Linear	0.12324	0.18413	0.25462	0.30579	0.34691	0.33849
Nitrobenzene	Averaged	0.29841	0.33127	0.36950	0.35826	0.34636	0.37192

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-2

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS2 GC Column: Col 1 SDG No.: 50225468

Calibration Date(s): 04/30/2019 04/30/2019 Calibration Time(s): 14:48 16:31

LAB FILE ID

CAL1 = 043019CAL.B\CAL1.D CAL2 = 043019CAL.B\CAL2.D CAL3 = 043019CAL.B\CAL3.D

CAL4 = 043019CAL.B\CAL4.D CAL5 = 043019CAL.B\CAL5.D CAL6 = 043019CAL.B\CAL6.D

CAL7 = 043019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
2-Nitrophenol	Wt Linear	0.10562	0.12942	0.15295	0.17187	0.16642	0.17953
4-Nitrophenol	Wt Linear		0.09878	0.13580	0.18282	0.18694	0.18713
N-Nitroso-di-n-propylamine	Averaged	0.82717	0.91034	1.02748	1.05890	0.99223	1.16250
N-Nitrosodiphenylamine	Averaged	0.52015	0.57771	0.58235	0.57015	0.57034	0.57365
Pentachlorophenol	Averaged		0.11365	0.12998	0.15891	0.16329	0.16150
Phenol	Averaged	1.53942	1.61524	1.67231	1.78423	1.76496	1.82024
2,4,5-Trichlorophenol	Averaged	0.36888	0.36429	0.42272	0.40056	0.43356	0.42058
2,4,6-Trichlorophenol	Averaged	0.28545	0.35696	0.34320	0.37952	0.39514	0.38143
2-Fluorophenol (S)	Averaged	1.08130	1.21607	1.22695	1.23338	1.21540	1.24501
Nitrobenzene-d5 (S)	Averaged	0.33167	0.33904	0.36267	0.35514	0.34521	0.38262
Phenol-d5 (S)	Averaged	1.35990	1.52511	1.52612	1.62963	1.63245	1.63105
2,4,6-Tribromophenol (S)	Averaged	0.08472	0.09381	0.10159	0.10434	0.10715	0.10781

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-3
MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS2 GC Column: Col 1 SDG No.: 50225468

Calibration Date(s): 04/30/2019 04/30/2019 Calibration Time(s): 14:48 16:31

LAB FILE ID

CAL1 = 043019CAL.B\CAL1.D CAL2 = 043019CAL.B\CAL2.D CAL3 = 043019CAL.B\CAL3.D
CAL4 = 043019CAL.B\CAL4.D CAL5 = 043019CAL.B\CAL5.D CAL6 = 043019CAL.B\CAL6.D
CAL7 = 043019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
Benzyl alcohol	Averaged	0.93651	8.27803			0.84815	
4-Bromophenylphenyl ether	Averaged	0.19762	5.62017			0.19647	
Butylbenzylphthalate	Wt Linear	0.50883		0.99953	-0.0310781	0.51899	
4-Chloro-3-methylphenol	Averaged	0.33463	13.81029			0.29453	
4-Chloroaniline	Averaged	0.44474	7.61318			0.42074	
bis(2-Chloroethoxy)methane	Averaged	0.40915	5.86817			0.39572	
bis(2-Chloroethyl) ether	Averaged	1.29077	1.48308			1.26995	
bis(2chloro1methylethyl) ether	Averaged	2.37149	4.44944			2.50933	
2-Chloronaphthalene	Averaged	1.02314	6.07233			1.06439	
2-Chlorophenol	Averaged	1.41915	3.00334			1.36536	
4-Chlorophenylphenyl ether	Averaged	0.68127	4.35553			0.72027	
Dibenzofuran	Averaged	1.62158	3.83603			1.72566	
3,3'-Dichlorobenzidine	Wt Linear	0.47648		0.99960	-0.0275316	0.47949	
2,4-Dichlorophenol	Averaged	0.30474	12.16905			0.28385	
Diethylphthalate	Wt Linear	1.81906		0.99770	-0.1007934	1.90449	
2,4-Dimethylphenol	Averaged	0.29370	7.65047			0.28432	
Dimethylphthalate	Averaged	1.32205	4.75806			1.36768	
Di-n-butylphthalate	Wt Linear	1.46305		0.99722	-0.0738003	1.47076	
4,6-Dinitro-2-methylphenol	Wt Linear	0.13023		0.99825	-0.0135429	0.13143	
2,4-Dinitrophenol	Wt Linear	0.23210		0.99509	-0.0286337	0.23185	
2,4-Dinitrotoluene	Wt Linear	0.42804		0.99881	-0.0243041	0.44522	
2,6-Dinitrotoluene	Averaged	0.31086	12.52492			0.29603	
Di-n-octylphthalate	Wt Linear	1.29284		0.99864	-0.1057954	1.29966	
bis(2-Ethylhexyl)phthalate	Wt Linear	0.76274		0.99987	-0.0458732	0.77428	
Hexachloro-1,3-butadiene	Averaged	0.21677	3.10914			0.21811	
Hexachlorobenzene	Averaged	0.22274	1.60085			0.22517	
Hexachlorocyclopentadiene	Averaged	0.37516	14.90602			0.34077	
Hexachloroethane	Averaged	0.61921	6.40637			0.62765	
Isophorone	Averaged	0.69025	7.80024			0.65902	
2-Methylphenol(o-Cresol)	Averaged	1.27891	7.22747			1.22892	
3&4-Methylphenol(m&p Cresol)	Averaged	1.42204	9.71078			1.30604	
2-Nitroaniline	Wt Linear	0.37001		0.99873	-0.0288887	0.38166	
3-Nitroaniline	Wt Linear	0.32365		0.99930	-0.0208309	0.33215	
4-Nitroaniline	Wt Linear	0.33744		0.99817	-0.0344595	0.34869	
Nitrobenzene	Averaged	0.35523	7.36955			0.34728	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV FULL SCAN - FORM VI SVOA-4

MSSV FULL SCAN INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS2 GC Column: Col 1 SDG No.: 50225468

Calibration Date(s): 04/30/2019 04/30/2019 Calibration Time(s): 14:48 16:31

LAB FILE ID

CAL1 = 043019CAL.B\CAL1.D CAL2 = 043019CAL.B\CAL2.D CAL3 = 043019CAL.B\CAL3.D

CAL4 = 043019CAL.B\CAL4.D CAL5 = 043019CAL.B\CAL5.D CAL6 = 043019CAL.B\CAL6.D

CAL7 = 043019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
2-Nitrophenol	Wt Linear	0.17963		0.99899	-0.0110036	0.18016	
4-Nitrophenol	Wt Linear	0.19234		0.99957	-0.0267343	0.19946	
N-Nitroso-di-n-propylamine	Averaged	1.11706	11.46186			1.01367	
N-Nitrosodiphenylamine	Averaged	0.55906	3.71315			0.56477	
Pentachlorophenol	Averaged	0.16279	14.32309			0.14835	
Phenol	Averaged	1.92393	7.55658			1.73148	
2,4,5-Trichlorophenol	Averaged	0.40395	6.65456			0.40208	
2,4,6-Trichlorophenol	Averaged	0.37871	10.31379			0.36006	
2-Fluorophenol (S)	Averaged	1.25774	4.88176			1.21083	
Nitrobenzene-d5 (S)	Averaged	0.35908	4.78828			0.35363	
Phenol-d5 (S)	Averaged	1.73824	7.64092			1.57750	
2,4,6-Tribromophenol (S)	Averaged	0.10438	8.34537			0.10054	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-1
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15123996CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/24/2019 Time: 15:43

Instrument ID: 50MSS2 GC Column: Col 1 Init. Calib. Date(s): 04/30/2019 04/30/2019

Lab File ID: 052419.B\CCV050.D Init. Calib. Time(s): 14:48 16:31

SDG No.: 50225468

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Benzyl alcohol	Averaged	0.84815	0.80809	0.0500	-4.7224	20.0000
4-Bromophenylphenyl ether	Averaged	0.19647	0.20255	0.0500	3.0930	20.0000
Butylbenzylphthalate	Wt Linear	5	5.792084	0.0500	15.8417	20.0000
4-Chloro-3-methylphenol	Averaged	0.29453	0.33478	0.0500	13.6632	20.0000
4-Chloroaniline	Averaged	0.42074	0.44451	0.0500	5.6487	20.0000
bis(2-Chloroethoxy)methane	Averaged	0.39572	0.40622	0.0500	2.6536	20.0000
bis(2-Chloroethyl) ether	Averaged	1.26995	1.31480	0.0500	3.5311	20.0000
bis(2chloro1methylethyl) ether	Averaged	2.50933	2.67590	0.0500	6.6379	20.0000
2-Chloronaphthalene	Averaged	1.06439	1.14783	0.0500	7.8401	20.0000
2-Chlorophenol	Averaged	1.36536	1.43785	0.0500	5.3088	20.0000
4-Chlorophenylphenyl ether	Averaged	0.72027	0.73341	0.0500	1.8239	20.0000
Dibenzofuran	Averaged	1.72566	1.81692	0.0500	5.2888	20.0000
3,3'-Dichlorobenzidine	Wt Linear	5	4.98423	0.0500	-0.3154	20.0000
2,4-Dichlorophenol	Averaged	0.28385	0.31316	0.0500	10.3270	20.0000
Diethylphthalate	Wt Linear	5	5.138128	0.0500	2.7626	20.0000
2,4-Dimethylphenol	Averaged	0.28432	0.26936	0.0500	-5.2625	20.0000
Dimethylphthalate	Averaged	1.36768	1.38930	0.0500	1.5805	20.0000
Di-n-butylphthalate	Wt Linear	5	5.214808	0.0500	4.2962	20.0000
4,6-Dinitro-2-methylphenol	Wt Linear	5	4.75516	0.0500	-4.8968	20.0000
2,4-Dinitrophenol	Wt Linear	5	4.594555	0.0500	-8.1089	20.0000
2,4-Dinitrotoluene	Wt Linear	5	5.21893	0.0500	4.3786	20.0000
2,6-Dinitrotoluene	Averaged	0.29603	0.31792	0.0500	7.3957	20.0000
Di-n-octylphthalate	Wt Linear	5	5.931028	0.0500	18.6206	20.0000
bis(2-Ethylhexyl)phthalate	Wt Linear	5	5.308486	0.0500	6.1697	20.0000
Hexachloro-1,3-butadiene	Averaged	0.21811	0.22304	0.0500	2.2610	20.0000
Hexachlorobenzene	Averaged	0.22517	0.22841	0.0500	1.4352	20.0000
Hexachlorocyclopentadiene	Averaged	0.34077	0.27685	0.0500	-18.7559	20.0000
Hexachloroethane	Averaged	0.62765	0.67210	0.0500	7.0815	20.0000
Isophorone	Averaged	0.65902	0.71140	0.0500	7.9488	20.0000
2-Methylphenol(o-Cresol)	Averaged	1.22892	1.35840	0.0500	10.5358	20.0000
3&4-Methylphenol(m&p Cresol)	Averaged	1.30604	1.40306	0.0500	7.4281	20.0000
2-Nitroaniline	Wt Linear	5	5.874028	0.0500	17.4806	20.0000
3-Nitroaniline	Wt Linear	5	5.593743	0.0500	11.8749	20.0000
4-Nitroaniline	Wt Linear	5	5.825687	0.0500	16.5137	20.0000
Nitrobenzene	Averaged	0.34728	0.37854	0.0500	9.0008	20.0000
2-Nitrophenol	Wt Linear	5	5.405243	0.0500	8.1049	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV FULL SCAN - FORM VII SVOA-2
MSSV FULL SCAN CONTINUING CALIBRATION DATA

15123996CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/24/2019 Time: 15:43

Instrument ID: 50MSS2 GC Column: Col 1 Init. Calib. Date(s): 04/30/2019 04/30/2019

Lab File ID: 052419.B\CCV050.D Init. Calib. Time(s): 14:48 16:31

SDG No.: 50225468

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
4-Nitrophenol	Wt Linear	5	5.036048	0.0500	0.7210	20.0000
N-Nitroso-di-n-propylamine	Averaged	1.01367	1.14790	0.0500	13.2415	20.0000
N-Nitrosodiphenylamine	Averaged	0.56477	0.58032	0.0500	2.7529	20.0000
Pentachlorophenol	Averaged	0.14835	0.18245	0.0500	22.9815	20.0000
Phenol	Averaged	1.73148	1.89250	0.0500	9.3001	20.0000
2,4,5-Trichlorophenol	Averaged	0.40208	0.45998	0.0500	14.4003	20.0000
2,4,6-Trichlorophenol	Averaged	0.36006	0.39156	0.0500	8.7489	20.0000
2-Fluorophenol (S)	Averaged	1.21083	1.28604	0.0500	6.2110	20.0000
Nitrobenzene-d5 (S)	Averaged	0.35363	0.39347	0.0500	11.2649	20.0000
Phenol-d5 (S)	Averaged	1.57750	1.74521	0.0500	10.6312	20.0000
2,4,6-Tribromophenol (S)	Averaged	0.10054	0.10518	0.0500	4.6134	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Prep Log Report

Batch Information: OEXT 502356 COMBO SCAN (W)

Template Version: EF-IN-Q-387-Rev.03 (23Jun2017)

Prep Method	EPA 3510	Analysis Method	EPA 8270	Extracted By	ARB/BLR	Extracted Date/Time	05/24/2019 10:11:32:408
Spiked By	ARB/BLR	Spiked By Date/Time	05/24/2019 10:11:33:984	Vialed By	ARB/BLR	Vialed By Date	05/24/2019 14:41:35:152
Sulfuric Acid	209124	Methylene Chloride	208699	Sodium Sulfate	206976	10N Sodium Hydroxide	206978
Glass Wool	78279	Reviewed By		Reviewed By Date		Batch Notes	Batched with 502357

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Volume (mL)	pH	Adjusted pH	Adjusted pH	Final Volume (mL)	Sample Notes	8270C-SPK (uL)	8270C-SS (uL)
COMBSCANLV	BLANK	**2318319**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	LCS	**2318320**	100	6	<2	>11	1		194954 (100)	177522 (100)
COMBSCANLV	PS	**50225487008**	75	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225490011**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225703001**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225703002**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225703003**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225465001**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225465002**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	RQS	**50225468001**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	MS	**2318321**	100	6	<2	>11	1		194954 (100)	177522 (100)
COMBSCANLV	MSD	**2318322**	100	6	<2	>11	1		194954 (100)	177522 (100)
COMBSCANLV	PS	**50225468002**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225468003**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225468004**	88	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225468005**	100	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225468006**	100	6	<2	>11	1			177522 (100)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Volume (mL)	pH	Adjusted pH	Adjusted pH	Final Volume (mL)	Sample Notes	8270C-SPK (uL)	8270C-SS (uL)
COMBSCANLV	PS	**50225773001**	94	6	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225773002**	82	7	<2	>11	1			177522 (100)
COMBSCANLV	PS	**50225773003**	82	7	<2	>11	1			177522 (100)

Standard Notes:

177522: Sim/Scan Combo Surr Stock (12) **194954: 8270 combo spike (7)**

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS2.i
Column .50um DB-5ms 30m X 0.25mm He
Misc. Prep Info [L]: MeCl2 Lot# 165774
ISTD lot: 203434:1
Lot:
Tune std: _____

Method: Semivolatile REPORT SW-846 Method 8
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp.d	TUNE,204028:1	L/28633	DFTPP	1	m625tune	4/30/19	14:41	grm	ok
1/cal4.d	CAL4,199461:1	L/28633	CALIB_4	1	m8270lve	4/30/19	14:48	grm	
1/cal1.d	CAL1,199458:1	L/28633	CALIB_1	1	m8270lve	4/30/19	15:05	grm	
1/cal2-rlcheck.d	RL check	L/		1	m8270lve	4/30/19	15:22	grm	
1/cal2.d	CAL2,199459:1	L/28633	CALIB_2	1	m8270lve	4/30/19	15:22	grm	
1/cal3.d	CAL3,199460:1	L/28633	CALIB_3	1	m8270lve	4/30/19	15:40	grm	
1/cal5.d	CAL5,199462:1	L/28633	CALIB_5	1	m8270lve	4/30/19	15:57	grm	
1/cal6.d	CAL6,199463:1	L/28633	CALIB_6	1	m8270lve	4/30/19	16:14	grm	
1/cal7.d	CAL7,199464:1	L/28633	CALIB_7	1	m8270lve	4/30/19	16:31	grm	
1/icv.d	ICV,199589:1	L/28633	ICV	1	m8270lve	4/30/19	18:32	grm	
1/2295525b.d	2295525	L/28630	BLANK	1	m8270lve	4/30/19	19:18	grm	
1/2295535b.d	2295535	L/28631	BLANK	1	m8270lve	4/30/19	19:18	grm	
1/2295731b.d	2295731	L/28632	BLANK	1	m8270lve	4/30/19	19:18	grm	
1/22955261.d	2295526	L/28630	LCS	1	m8270lve	4/30/19	19:35	grm	
1/22955361.d	2295536	L/28631	LCS	1	m8270lve	4/30/19	19:35	grm	
1/22957321.d	2295732	L/28632	LCS	1	m8270lve	4/30/19	19:35	grm	
1/50223000004.d	50223000004	L/28631	SAMPLE	1	m8270lve	4/30/19	19:51	grm	
1/50223076002.d	50223076002	L/28631	SAMPLE	1	m8270lve	4/30/19	20:07	grm	
1/60300878001x10.d	60300878001X10	L/28630	SAMPLE	10	m8270lve	4/30/19	20:24	grm	
1/50223093001.d	50223093001	L/28630	SAMPLE	1	m8270lve	4/30/19	20:40	grm	
1/50222936001.d	50222936001	L/28632	SAMPLE	1	m8270lve	4/30/19	20:57	grm	
1/50222936001x20.d	50222936001X20	L/28632	SAMPLE	20	m8270lve	4/30/19	21:13	grm	

File Path 1: \\192.168.50.6\chem\50MSS2.i\043019cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:30 05/01/2019

5-1-19
Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS2.i
Column .50um DB-5ms 30m X 0.25mm He
Misc. Prep Info [L]: MeCl2 Lot# 165774
ISTD lot: 203434:1
Lot:
Tune std: _____

Method: Semivolatile REPORT SW-846 Method 8
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/acal3.d	ACAL3,197747:1	L/28633	CALIB_3	1	mappixlv	4/30/19	16:48	grm	ok
1/acal1.d	ACAL1,197745:1	L/28633	CALIB_1	1	mappixlv	4/30/19	17:06	grm	
1/acal2.d	ACAL2,197746:1	L/28633	CALIB_2	1	mappixlv	4/30/19	17:23	grm	
1/acal4.d	ACAL4,197748:1	L/28633	CALIB_4	1	mappixlv	4/30/19	17:40	grm	
1/acal5.d	ACAL5,197749:1	L/28633	CALIB_5	1	mappixlv	4/30/19	17:57	grm	
1/acal6.d	ACAL6,197750:1	L/28633	CALIB_6	1	mappixlv	4/30/19	18:14	grm	
1/aicv.d	AICV,194392:1	L/28633	ICV	1	mappixlv	4/30/19	18:49	grm	
1/2295731b.d	2295731	L/28632	BLANK	1	mappixlv	4/30/19	19:18	grm	
1/50222936001.d	50222936001	L/28632	SAMPLE	1	mappixlv	4/30/19	20:57	grm	

File Path 1: \\192.168.50.6\chem\50MSS2.i\043019acal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:35 05/01/2019

5-1-19
Reviewed By/Date: _____ Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSS2.i
Column 0m X 2mm
Misc. Prep Info [L]: MeCl2 Lot# 165774
ISTD lot: 7540-025
Lot:
Tune std: _____

Method:
Surr. lot: see extract sheet
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/dftpp.d	TUNE,204028:1	L/28633	DFTPP	1	m625tune	5/24/19	15:36	grm	ok
1/ccv050.d	CCV,199465:1	L/28633	CCALIB_4	1	m8270lve	5/24/19	15:43	grm	ok
1/2318304b.d	2318304	L/28821	BLANK	1	m8270lve	5/24/19	16:21	grm	
1/2318307b.d	2318307	L/28822	BLANK	1	m8270lve	5/24/19	16:21	grm	
1/23183051.d	2318305	L/28821	LCS	1	m8270lve	5/24/19	16:37	grm	
1/23183081.d	2318308	L/28822	LCS	1	m8270lve	5/24/19	16:37	grm	
1/50225515001.d	50225515001	L/28821	SAMPLE	1	m8270lve	5/24/19	16:54	grm	
1/50225740009.d	50225740009	L/28822	SAMPLE	1	m8270lve	5/24/19	17:10	grm	
1/50225740010x10.d	50225740010X10	L/28822	SAMPLE	10	m8270lve	5/24/19	17:27	grm	
1/2318319b.d	2318319	L/28823	BLANK	1	m8270lve	5/24/19	17:43	grm	
1/23183201.d	2318320	L/28823	LCS	1	m8270lve	5/24/19	17:59	grm	
1/50225487008.d	50225487008	L/28823	SAMPLE	1	m8270lve	5/24/19	18:16	grm	
1/50225490011.d	50225490011	L/28823	SAMPLE	1	m8270lve	5/24/19	18:32	grm	
1/50225703001.d	50225703001	L/28823	SAMPLE	1	m8270lve	5/24/19	18:49	grm	
1/50225703002.d	50225703002	L/28823	SAMPLE	1	m8270lve	5/24/19	19:05	grm	
1/50225703003.d	50225703003	L/28823	SAMPLE	1	m8270lve	5/24/19	19:22	grm	
1/50225465001.d	50225465001	L/28823	SAMPLE	1	m8270lve	5/24/19	19:38	grm	
1/50225465002.d	50225465002	L/28823	SAMPLE	1	m8270lve	5/24/19	19:55	grm	
1/50225468001.d	50225468001	L/28823	SAMPLE	1	m8270lve	5/24/19	20:11	grm	
1/2318321m.d	2318321	L/28823	MS	1	m8270lve	5/24/19	20:27	grm	
1/2318322d.d	2318322	L/28823	MSD	1	m8270lve	5/24/19	20:44	grm	
1/50225468002.d	50225468002	L/28823	SAMPLE	1	m8270lve	5/24/19	21:00	grm	
1/50225468003.d	50225468003	L/28823	SAMPLE	1	m8270lve	5/24/19	21:17	grm	
1/50225468004.d	50225468004	L/28823	SAMPLE	1	m8270lve	5/24/19	21:33	grm	
1/50225468005.d	50225468005	L/28823	SAMPLE	1	m8270lve	5/24/19	21:50	grm	
1/50225468006.d	50225468006	L/28823	SAMPLE	1	m8270lve	5/24/19	22:06	grm	
1/50225773001.d	50225773001	L/28823	SAMPLE	1	m8270lve	5/24/19	22:22	grm	
1/50225773002.d	50225773002	L/28823	SAMPLE	1	m8270lve	5/24/19	22:39	grm	
1/50225773003.d	50225773003	L/28823	SAMPLE	1	m8270lve	5/24/19	22:55	grm	

File Path 1: \\192.168.50.6\chem\50MSS2.i\052419.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:18 05/28/2019

5-28-19
Reviewed By/Date: _____ Page: 1 of 1

MSSV SIM - FORM II SVOA-1
WATER SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Instrument ID: 50MSS5

LAB SAMPLE ID	SAMPLE NAME	2FBP	TD14
2318323	2318323BLANK	54	72
2318324	2318324LCS	56	63
2318325	2318325MS	37	65
2318326	2318326MSD	41	79
50225468001	SP-1	50	89
50225468002	SP-3	43	66
50225468003	SP-4	44	76
50225468004	SP-5	46	87
50225468005	SP-5 DUP	39	72
50225468006	EQ Blank	42	60

	QC LIMITS
(2FBP) = 2-Fluorobiphenyl (S)	(10-83)
(TD14) = p-Terphenyl-d14 (S)	(28-125)

* Values outside of QC Limits

MSSV SIM - FORM III SVOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 2318324LCS
Date Extracted: 05/22/2019
Date Analyzed (1): 05/24/2019
Instrument: 50MSS5
LCS Lot No: 205376
Lab File ID: 052419.B\2318324L.D
SDG No.: 50225468

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acenaphthene	10.0	5.8	58	21-102
Acenaphthylene	10.0	6.3	63	23-118
Anthracene	10.0	6.1	61	29-119
Benzo(a)anthracene	10.0	6.4	64	36-131
Benzo(a)pyrene	10.0	5.2	52	31-121
Benzo(b)fluoranthene	10.0	6.8	68	32-130
Benzo(g,h,i)perylene	10.0	4.5	45	23-118
Benzo(k)fluoranthene	10.0	5.4	54	33-127
Chrysene	10.0	6.0	60	41-118
Dibenz(a,h)anthracene	10.0	4.9	49	25-121
Fluoranthene	10.0	6.8	68	36-128
Fluorene	10.0	6.4	64	26-114
Indeno(1,2,3-cd)pyrene	10.0	5.1	51	26-119
1-Methylnaphthalene	10.0	5.4	54	20-92
2-Methylnaphthalene	10.0	5.3	53	18-98
Naphthalene	10.0	5.3	53	19-97
Phenanthrene	10.0	6.4	64	32-115
Pyrene	10.0	6.7	67	36-123

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-1

WATER SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana

Matrix Spike - Sample No: 2318325MS

Date Extracted: 05/22/2019

Date Analyzed (1): 05/28/2019

Instrument: 50MSS5

Lab File ID: 052819.B\2318325M.D

Parent Sample ID: SP-1

SDG No.: 50225468

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1-Methylnaphthalene	10.0	<0.045	6.3	63	15-88
2-Methylnaphthalene	10.0	<0.044	6.1	61	19-92
Acenaphthene	10.0	<0.032	6.4	64	13-91
Acenaphthylene	10.0	<0.045	6.1	61	10-110
Anthracene	10.0	<0.040	6.9	69	18-111
Benzo(a)anthracene	10.0	<0.042	7.4	74	36-113
Benzo(a)pyrene	10.0	<0.043	6.1	61	22-92
Benzo(b)fluoranthene	10.0	<0.038	6.8	68	28-104
Benzo(g,h,i)perylene	10.0	<0.029	5.0	50	10-83
Benzo(k)fluoranthene	10.0	<0.042	6.3	63	19-98
Chrysene	10.0	<0.056	7.1	71	36-100
Dibenz(a,h)anthracene	10.0	<0.032	5.5	55	12-88
Fluoranthene	10.0	<0.029	5.2	52	41-114
Fluorene	10.0	<0.044	6.8	68	21-104
Indeno(1,2,3-cd)pyrene	10.0	<0.031	5.5	55	13-88
Naphthalene	10.0	<0.053	6.2	62	14-92
Phenanthrene	10.0	<0.052	6.6	66	29-105
Pyrene	10.0	<0.034	7.9	79	29-112

Spike Recovery: 0 out of 18 outside limits.

MSSV SIM - FORM III SVOA-2

WATER SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MSS5 Matrix Spike Duplicate - Sample No: 2318326MSD

Lab File ID (2): 052819.B\2318326D.D Date Analyzed (2): 05/28/2019

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1-Methylnaphthalene	10.0	6.1	61	2	0-20	15-88
2-Methylnaphthalene	10.0	6.0	60	3	0-20	19-92
Acenaphthene	10.0	6.2	62	3	0-20	13-91
Acenaphthylene	10.0	7.2	72	16	0-20	10-110
Anthracene	10.0	7.1	71	3	0-20	18-111
Benzo(a)anthracene	10.0	7.2	72	3	0-20	36-113
Benzo(a)pyrene	10.0	6.7	67	9	0-20	22-92
Benzo(b)fluoranthene	10.0	8.6	86	23	0-20	28-104
Benzo(g,h,i)perylene	10.0	5.7	57	13	0-20	10-83
Benzo(k)fluoranthene	10.0	5.7	57	9	0-20	19-98
Chrysene	10.0	7.5	75	6	0-20	36-100
Dibenz(a,h)anthracene	10.0	6.3	63	14	0-20	12-88
Fluoranthene	10.0	11.2	112	74	0-20	41-114
Fluorene	10.0	4.8	48	36	0-20	21-104
Indeno(1,2,3-cd)pyrene	10.0	6.2	62	11	0-20	13-88
Naphthalene	10.0	6.2	62	0	0-20	14-92
Phenanthrene	10.0	6.5	65	1	0-20	29-105
Pyrene	10.0	8.3	83	4	0-20	29-112

RPD: 3 out of 18 outside limits.

Spike Recovery: 0 out of 18 outside limits.

SAMPLE NO.

2318323BLANK

MSSV SIM - FORM IV SVOA-1
SEMI-VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Instrument ID: 50MSS5 Matrix: Water Lab Sample ID: 2318323

Lab File ID: 052419.B\2318323B.D Date Analyzed: 05/24/2019 Time: 18:56

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
2318324LCS	2318324	052419.B\2318324L.D	05/24/2019 19:08
SP-1	50225468001	052819.B\50225468001.D	05/28/2019 16:41
2318325MS	2318325	052819.B\2318325M.D	05/28/2019 16:53
2318326MSD	2318326	052819.B\2318326D.D	05/28/2019 17:04
SP-3	50225468002	052819.B\50225468002.D	05/28/2019 17:16
SP-4	50225468003	052819.B\50225468003.D	05/28/2019 17:27
SP-5	50225468004	052819.B\50225468004.D	05/28/2019 17:39
SP-5 DUP	50225468005	052819.B\50225468005.D	05/28/2019 17:50
EQ Blank	50225468006	052819.B\50225468006.D	05/28/2019 18:01

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15131266CCV Date Analyzed: 05/24/2019

Instrument ID: 50MSS5 GC Column: FULL Time Analyzed: 15:03

Lab File ID: 052419.B\CCV050.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		6172	1.831	14836	4.547	10522	1.09	12963	2.665
UPPER LIMIT		12344	2.331	29672	5.047	21044	1.59	25926	3.165
LOWER LIMIT		3086	1.331	7418	4.047	5261	0.59	6481.5	2.165
LAB SAMPLE ID	SAMPLE NO.								
2318323	2318323BLANK	5984	1.831	14218	4.547	10513	1.09	12862	2.665
2318324	2318324LCS	6335	1.831	15581	4.538	11124	1.091	13446	2.665

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15131266CCV Date Analyzed: 05/24/2019

Instrument ID: 50MSS5 GC Column: FULL Time Analyzed: 15:03

Lab File ID: 052419.B\CCV050.D

		AREA PYL	RT
12 HOUR STD		16749	5.876
UPPER LIMIT		33498	6.376
LOWER LIMIT		8374.5	5.376
LAB SAMPLE ID	SAMPLE NO.		
2318323	2318323BLANK	15607	5.876
2318324	2318324LCS	17176	5.876

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15133364CCV Date Analyzed: 05/28/2019

Instrument ID: 50MSS5 GC Column: FULL Time Analyzed: 13:18

Lab File ID: 052819.B\CCV050-C.D

		AREA ANT	RT	AREA CRY	RT	AREA NPT	RT	AREA PHN	RT
12 HOUR STD		4080	1.831	9589	4.547	6886	1.091	8580	2.673
UPPER LIMIT		8160	2.331	19178	5.047	13772	1.591	17160	3.173
LOWER LIMIT		2040	1.331	4794.5	4.047	3443	0.591	4290	2.173
LAB SAMPLE ID	SAMPLE NO.								
2318325	2318325MS	7911	1.831	11533	4.547	8629	1.097	15923	2.665
2318326	2318326MSD	6964	1.831	15921	4.546	8214	1.096	10347	2.665
50225468001	SP-1	5062	1.831	11269	4.547	8491	1.097	16049	2.665
50225468002	SP-3	6316	1.831	11182	4.547	8058	1.097	10199	2.665
50225468003	SP-4	7708	1.831	11043	4.547	8022	1.097	14687	2.665
50225468004	SP-5	6694	1.831	10022	4.547	7425	1.097	9091	2.665
50225468005	SP-5 DUP	7467	1.831	11102	4.547	7913	1.096	14804	2.665
50225468006	EQ Blank	6997	1.831	10574	4.547	7814	1.097	9773	2.665

ANT = Acenaphthene-d10 (IS)
CRY = Chrysene-d12 (IS)
NPT = Naphthalene-d8 (IS)
PHN = Phenanthrene-d10 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VIII SVOA-1
MSSV SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50225468 Contract: 216 College / 19-146

Sample ID : 15133364CCV Date Analyzed: 05/28/2019

Instrument ID: 50MSS5 GC Column: FULL Time Analyzed: 13:18

Lab File ID: 052819.B\CCV050-C.D

		AREA PYL	RT
12 HOUR STD		14665	5.876
UPPER LIMIT		29330	6.376
LOWER LIMIT		7332.5	5.376
LAB SAMPLE ID	SAMPLE NO.		
2318325	2318325MS	12821	5.876
2318326	2318326MSD	12254	5.874
50225468001	SP-1	12515	5.876
50225468002	SP-3	11750	5.876
50225468003	SP-4	11959	5.876
50225468004	SP-5	11179	5.876
50225468005	SP-5 DUP	11688	5.876
50225468006	EQ Blank	16972	5.876

PYL = Perylene-d12 (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSSV SIM - FORM VI SVOA-1

MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS5 GC Column: FULL SDG No.: 50225468

Calibration Date(s): 03/20/2019 03/20/2019 Calibration Time(s): 17:19 18:27

LAB FILE ID

CAL1 = 032019CAL.B\CAL1.D CAL2 = 032019CAL.B\CAL2.D CAL3 = 032019CAL.B\CAL3.D

CAL4 = 032019CAL.B\CAL4.D CAL5 = 032019CAL.B\CAL5.D CAL6 = 032019CAL.B\CAL6.D

CAL7 = 032019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acenaphthene	Averaged		1.55989	1.30763	1.23661	1.21557	1.22577
Acenaphthylene	Averaged	2.27196	2.22723	2.04177	2.02128	1.98774	2.00141
Anthracene	Averaged	1.27415	1.18074	1.16204	1.18343	1.22665	1.28845
Benzo(a)anthracene	Averaged	1.80723	1.61983	1.38307	1.25122	1.33940	1.30605
Benzo(a)pyrene	Averaged	1.25705	1.24232	1.29670	1.34592	1.38937	1.35546
Benzo(b)fluoranthene	Averaged	1.19720	1.22037	1.13104	1.17394	1.26945	1.50628
Benzo(g,h,i)perylene	Averaged	1.26561	1.29939	1.35584	1.46032	1.52947	1.50772
Benzo(k)fluoranthene	Averaged	1.67607	1.48376	1.59004	1.77521	1.77756	1.56569
Chrysene	Averaged	1.89582	1.77645	1.69417	1.55154	1.39650	1.49651
Dibenz(a,h)anthracene	Averaged	1.08603	1.00088	1.12086	1.26281	1.33460	1.35145
Fluoranthene	Averaged	1.49354	1.40187	1.38279	1.40075	1.48007	1.51059
Fluorene	Averaged	1.69976	1.65165	1.55904	1.53191	1.55463	1.55787
Indeno(1,2,3-cd)pyrene	Averaged	1.24850	1.38718	1.47215	1.55503	1.63779	1.65258
1-Methylnaphthalene	Averaged	0.82216	0.78643	0.74435	0.73426	0.72582	0.72360
2-Methylnaphthalene	Averaged	0.92046	0.83945	0.77120	0.76306	0.75385	0.75944
Naphthalene	Averaged	1.25112	1.21057	1.13762	1.11250	1.06467	1.05922
Phenanthrene	Averaged	1.50198	1.36849	1.33494	1.28264	1.25107	1.25341
Pyrene	Averaged	1.47059	1.56166	1.43134	1.34585	1.29003	1.30721
2-Fluorobiphenyl (S)	Averaged	1.91855	1.81014	1.70763	1.64886	1.55753	1.54646
p-Terphenyl-d14 (S)	Averaged	1.03650	1.01575	0.95519	0.88969	0.84827	0.84296

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSSV SIM - FORM VI SVOA-2

MSSV SIM INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MSS5 GC Column: FULL SDG No.: 50225468

Calibration Date(s): 03/20/2019 03/20/2019 Calibration Time(s): 17:19 18:27

LAB FILE ID

CAL1 = 032019CAL.B\CAL1.D CAL2 = 032019CAL.B\CAL2.D CAL3 = 032019CAL.B\CAL3.D

CAL4 = 032019CAL.B\CAL4.D CAL5 = 032019CAL.B\CAL5.D CAL6 = 032019CAL.B\CAL6.D

CAL7 = 032019CAL.B\CAL7.D

COMPOUND	CURVE TYPE	CAL7	%RSD	R2	A1	A2	A3
Acenaphthene	Averaged	1.24127	10.20377			1.29779	
Acenaphthylene	Averaged	2.06096	5.46528			2.08748	
Anthracene	Averaged	1.29557	4.56127			1.23015	
Benzo(a)anthracene	Averaged	1.36258	13.90687			1.43848	
Benzo(a)pyrene	Averaged	1.38685	4.52756			1.32481	
Benzo(b)fluoranthene	Averaged	1.61449	14.15419			1.30183	
Benzo(g,h,i)perylene	Averaged	1.51934	7.80526			1.41967	
Benzo(k)fluoranthene	Averaged	1.53961	7.09737			1.62970	
Chrysene	Averaged	1.43161	11.65042			1.60609	
Dibenz(a,h)anthracene	Averaged	1.38214	12.26609			1.21982	
Fluoranthene	Averaged	1.54984	4.42229			1.45992	
Fluorene	Averaged	1.58202	3.85090			1.59098	
Indeno(1,2,3-cd)pyrene	Averaged	1.69568	10.63907			1.52127	
1-Methylnaphthalene	Averaged	0.73835	4.88847			0.75357	
2-Methylnaphthalene	Averaged	0.77171	7.72991			0.79703	
Naphthalene	Averaged	1.07114	6.69048			1.12955	
Phenanthrene	Averaged	1.26198	6.87778			1.32207	
Pyrene	Averaged	1.31505	7.32399			1.38882	
2-Fluorobiphenyl (S)	Averaged	1.56736	8.45856			1.67951	
p-Terphenyl-d14 (S)	Averaged	0.85245	8.93367			0.92012	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15131266CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/24/2019 Time: 15:03

Instrument ID: 50MSS5 GC Column: FULL Init. Calib. Date(s): 03/20/2019 03/20/2019

Lab File ID: 052419.B\CCV050.D Init. Calib. Time(s): 17:19 18:27

SDG No.: 50225468

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.29779	1.28321	0.0500	-1.1231	20.0000
Acenaphthylene	Averaged	2.08748	2.12492	0.0500	1.7936	20.0000
Anthracene	Averaged	1.23015	1.27841	0.0500	3.9232	20.0000
Benzo(a)anthracene	Averaged	1.43848	1.45518	0.0500	1.1605	20.0000
Benzo(a)pyrene	Averaged	1.32481	1.38313	0.0500	4.4020	20.0000
Benzo(b)fluoranthene	Averaged	1.30183	1.39973	0.0500	7.5202	20.0000
Benzo(g,h,i)perylene	Averaged	1.41967	1.47310	0.0500	3.7640	20.0000
Benzo(k)fluoranthene	Averaged	1.62970	1.74530	0.0500	7.0930	20.0000
Chrysene	Averaged	1.60609	1.64215	0.0500	2.2457	20.0000
Dibenz(a,h)anthracene	Averaged	1.21982	1.36641	0.0500	12.0170	20.0000
Fluoranthene	Averaged	1.45992	1.51986	0.0500	4.1058	20.0000
Fluorene	Averaged	1.59098	1.63172	0.0500	2.5607	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.52127	1.66780	0.0500	9.6318	20.0000
1-Methylnaphthalene	Averaged	0.75357	0.78360	0.0500	3.9848	20.0000
2-Methylnaphthalene	Averaged	0.79703	0.81848	0.0500	2.6913	20.0000
Naphthalene	Averaged	1.12955	1.13800	0.0500	0.7480	20.0000
Phenanthrene	Averaged	1.32207	1.27278	0.0500	-3.7289	20.0000
Pyrene	Averaged	1.38882	1.39856	0.0500	0.7013	20.0000
2-Fluorobiphenyl (S)	Averaged	1.67951	1.64031	0.0500	-2.3337	20.0000
p-Terphenyl-d14 (S)	Averaged	0.92012	0.93334	0.0500	1.4371	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSSV SIM - FORM VII SVOA-1
MSSV SIM CONTINUING CALIBRATION DATA

15133364CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/28/2019 Time: 13:18

Instrument ID: 50MSS5 GC Column: FULL Init. Calib. Date(s): 03/20/2019 03/20/2019

Lab File ID: 052819.B\CCV050-C.D Init. Calib. Time(s): 17:19 18:27

SDG No.: 50225468

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acenaphthene	Averaged	1.29779	1.26103	0.0500	-2.8326	20.0000
Acenaphthylene	Averaged	2.08748	2.07034	0.0500	-0.8209	20.0000
Anthracene	Averaged	1.23015	1.28159	0.0500	4.1814	20.0000
Benzo(a)anthracene	Averaged	1.43848	1.61174	0.0500	12.0446	20.0000
Benzo(a)pyrene	Averaged	1.32481	1.32376	0.0500	-0.0789	20.0000
Benzo(b)fluoranthene	Averaged	1.30183	1.51695	0.0500	16.5245	20.0000
Benzo(g,h,i)perylene	Averaged	1.41967	1.41241	0.0500	-0.5111	20.0000
Benzo(k)fluoranthene	Averaged	1.62970	1.50501	0.0500	-7.6512	20.0000
Chrysene	Averaged	1.60609	1.43456	0.0500	-10.6798	20.0000
Dibenz(a,h)anthracene	Averaged	1.21982	1.33086	0.0500	9.1023	20.0000
Fluoranthene	Averaged	1.45992	1.53974	0.0500	5.4675	20.0000
Fluorene	Averaged	1.59098	1.64485	0.0500	3.3859	20.0000
Indeno(1,2,3-cd)pyrene	Averaged	1.52127	1.64194	0.0500	7.9317	20.0000
1-Methylnaphthalene	Averaged	0.75357	0.78028	0.0500	3.5446	20.0000
2-Methylnaphthalene	Averaged	0.79703	0.79901	0.0500	0.2493	20.0000
Naphthalene	Averaged	1.12955	1.14609	0.0500	1.4649	20.0000
Phenanthrene	Averaged	1.32207	1.32599	0.0500	0.2962	20.0000
Pyrene	Averaged	1.38882	1.42757	0.0500	2.7906	20.0000
2-Fluorobiphenyl (S)	Averaged	1.67951	1.61593	0.0500	-3.7853	20.0000
p-Terphenyl-d14 (S)	Averaged	0.92012	0.90562	0.0500	-1.5753	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Prep Log Report

Batch Information: OEXT 502357 COMBO SEP (W)

Template Version: EF-IN-Q-387-Rev.03 (23Jun2017)

Prep Method	EPA 3510	Analysis Method	EPA 8270 by SIM	Extracted By	ARB/BLR	Extracted Date/Time	05/24/2019 10:11:33:173
Spiked By	ARB/BLR	Spiked By Date/Time	05/24/2019 10:11:34:461	Vialed By	ARB/BLR	Vialed By Date	05/24/2019 14:41:35:533
Methylene Chloride	208699	Sodium Sulfate	206976	10N Sodium Hydroxide	206978	Glass Wool	78279
Reviewed By		Reviewed By Date		Batch Notes	Batched with 502356		

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Initial Volume (mL)	pH	Adjusted pH	Final Volume (mL)	Sample Notes	8270C-SPK (uL)	8270C-SS (uL)
COMBSEPLVP	BLANK	**2318323**	100	6		1			177522 (100)
COMBSEPLVP	LCS	**2318324**	100	6		1		194954 (100)	177522 (100)
COMBSEPLVP	PS	**50225487008**	75	6		1			177522 (100)
COMBSEPLVP	PS	**50225490011**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225703001**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225703002**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225703003**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225465001**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225465002**	100	6		1			177522 (100)
COMBSEPLVP	RQS	**50225468001**	100	6		1			177522 (100)
COMBSEPLVP	MS	**2318325**	100	6		1		194954 (100)	177522 (100)
COMBSEPLVP	MSD	**2318326**	100	6		1		194954 (100)	177522 (100)
COMBSEPLVP	PS	**50225468002**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225468003**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225468004**	88	6		1			177522 (100)
COMBSEPLVP	PS	**50225468005**	100	6		1			177522 (100)
COMBSEPLVP	PS	**50225468006**	100	6		1			177522 (100)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Initial Volume (mL)	pH	Adjusted pH	Final Volume (mL)	Sample Notes	8270C-SPK (uL)	8270C-SS (uL)
COMBSEPLVPPS		**50225773001**	94	6		1			177522 (100)
COMBSEPLVPPS		**50225773002**	82	7		1			177522 (100)
COMBSEPLVPPS		**50225773003**	82	7		1			177522 (100)

Standard Notes:

177522: Sim/Scan Combo Surr Stock (12) **194954: 8270 combo spike (7)**

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss5.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [L]: MeCl2 Lot# 173082
ISTD lot: 199046:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/sblank.d	SBLANK	L/	SAMPLE	1	mlvpahsim	3/20/19	17:07	grm	
1/cal4.d	CAL4,202162:1	L/28328	CALIB_4	1	mlvpahsim	3/20/19	17:19	grm	ok
1/cal1.d	CAL1,202159:1	L/28328	CALIB_1	1	mlvpahsim	3/20/19	17:30	grm	
1/cal2.d	CAL2,202160:1	L/28328	CALIB_2	1	mlvpahsim	3/20/19	17:42	grm	
1/cal3.d	CAL3,202161:1	L/28328	CALIB_3	1	mlvpahsim	3/20/19	17:53	grm	
1/cal5.d	CAL5,202163:1	L/28328	CALIB_5	1	mlvpahsim	3/20/19	18:05	grm	
1/cal6.d	CAL6,202164:1	L/28328	CALIB_6	1	mlvpahsim	3/20/19	18:16	grm	
1/cal7.d	CAL7,202165:1	L/28328	CALIB_7	1	mlvpahsim	3/20/19	18:27	grm	
1/icv.d	ICV,201764:1	L/28328	ICV	1	mlvpahsim	3/20/19	18:39	grm	
1/2261001b.d	2261001	L/28333	BLANK	1	mlvpahsim	3/20/19	18:53	grm	
1/22610021.d	2261002	L/28333	LCS	1	mlvpahsim	3/20/19	19:04	grm	
1/50219479016.d	50219479016	L/28333	SAMPLE	1	mlvpahsim	3/20/19	19:16	grm	
1/50219479017.d	50219479017	L/28333	SAMPLE	1	mlvpahsim	3/20/19	19:27	grm	
1/50219479019.d	50219479019	L/28333	SAMPLE	1	mlvpahsim	3/20/19	19:39	grm	
1/50219601023.d	50219601023	L/28333	SAMPLE	1	mlvpahsim	3/20/19	19:50	grm	
1/50219601024.d	50219601024	L/28333	SAMPLE	1	mlvpahsim	3/20/19	20:02	grm	
1/50219611013.d	50219611013	L/28333	SAMPLE	1	mlvpahsim	3/20/19	20:13	grm	
1/50219664023.d	50219664023	L/28333	SAMPLE	1	mlvpahsim	3/20/19	20:24	grm	
1/50219664024x5.d	50219664024X5	L/28333	SAMPLE	5	mlvpahsim	3/20/19	20:36	grm	
1/50219495001.d	50219495001	L/28333	SAMPLE	1	mlvpahsim	3/20/19	20:47	grm	
1/50219644007.d	50219644007	L/28333	SAMPLE	1	mlvpahsim	3/20/19	20:59	grm	
1/2260982b.d	2260982	L/28335	BLANK	1	mlvpahsim	3/20/19	21:10	grm	
1/2260983l.d	2260983	L/28335	LCS	1	mlvpahsim	3/20/19	21:22	grm	
1/50219490005.d	50219490005	L/28335	SAMPLE	1	mlvpahsim	3/20/19	21:33	grm	
1/2260984m.d	2260984	L/28335	MS	1	mlvpahsim	3/20/19	21:44	grm	
1/2260985d.d	2260985	L/28335	MSD	1	mlvpahsim	3/20/19	21:56	grm	
1/50219490006.d	50219490006	L/28335	SAMPLE	1	mlvpahsim	3/20/19	22:07	grm	
1/50219493001.d	50219493001	L/28335	SAMPLE	1	mlvpahsim	3/20/19	22:19	grm	
1/2260986m.d	2260986	L/28335	MS	1	mlvpahsim	3/20/19	22:30	grm	
1/2260987d.d	2260987	L/28335	MSD	1	mlvpahsim	3/20/19	22:42	grm	
1/50219493003.d	50219493003	L/28335	SAMPLE	1	mlvpahsim	3/20/19	22:53	grm	

File Path 1: \\192.168.50.6\chem\50mss5.i\032019cal.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:04 03/21/2019

Reviewed By/Date: _____

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mss5.i

Column Rtx-5MS 15m X 0.25mm Method: Low-Level PAH Report by SW-846 Method 8270 SIM

Misc. Prep Info [L]: MeCl2 Lot# 173082

ISTD lot: 199046:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50219493005.d	50219493005	L/28335	SAMPLE	1	mlvpahsim	3/20/19	23:05	grm	
1/50219493007.d	50219493007	L/28335	SAMPLE	1	mlvpahsim	3/20/19	23:16	grm	
1/50219493009.d	50219493009	L/28335	SAMPLE	1	mlvpahsim	3/20/19	23:27	grm	
1/50219561011.d	50219561011	L/28335	SAMPLE	1	mlvpahsim	3/20/19	23:39	grm	NR
1/50219561012.d	50219561012	L/28335	SAMPLE	1	mlvpahsim	3/20/19	23:50	grm	NR
1/50219561013.d	50219561013	L/28335	SAMPLE	1	mlvpahsim	3/21/19	00:02	grm	
1/50219561014.d	50219561014	L/28335	SAMPLE	1	mlvpahsim	3/21/19	00:13	grm	
1/50219561015.d	50219561015	L/28335	SAMPLE	1	mlvpahsim	3/21/19	00:25	grm	NR
1/50219561016.d	50219561016	L/28335	SAMPLE	1	mlvpahsim	3/21/19	00:36	grm	NR
1/50219561017.d	50219561017	L/28335	SAMPLE	1	mlvpahsim	3/21/19	00:47	grm	
1/2260988m.d	2260988	L/28335	MS	1	mlvpahsim	3/21/19	00:59	grm	
1/2260989d.d	2260989	L/28335	MSD	1	mlvpahsim	3/21/19	01:10	grm	
1/50219561018.d	50219561018	L/28335	SAMPLE	1	mlvpahsim	3/21/19	01:22	grm	
1/50219561019.d	50219561019	L/28335	SAMPLE	1	mlvpahsim	3/21/19	01:33	grm	

File Path 1: \\192.168.50.6\chem\50mss5.i\032019cal.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 12:04 03/21/2019

3-21-19

Reviewed By/Date: _____ Page: 2 of 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss5.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [L]: MeCl2 Lot# 173082
ISTD lot: 199046:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/sblank.d	SBLANK	L/	SAMPLE	1	mlvpahsim	5/24/19	14:51	grm	
1/ccv050.d	CCV,201765:1	L/28328	CCALIB_4	1	mlvpahsim	5/24/19	15:03	grm	ok
1/2318495b.d	2318495	L/28820	BLANK	1	mlvpahsim	5/24/19	15:31	grm	
1/2318496l.d	2318496	L/28820	LCS	1	mlvpahsim	5/24/19	15:42	grm	
1/50225731001.d	50225731001	L/28820	SAMPLE	1	mlvpahsim	5/24/19	15:53	grm	
1/10475665001.d	10475665001	L/28820	SAMPLE	1	mlvpahsim	5/24/19	16:05	grm	
1/10475665002.d	10475665002	L/28820	SAMPLE	1	mlvpahsim	5/24/19	16:16	grm	
1/10475665003.d	10475665003	L/28820	SAMPLE	1	mlvpahsim	5/24/19	16:28	grm	
1/10475665004.d	10475665004	L/28820	SAMPLE	1	mlvpahsim	5/24/19	16:39	grm	
1/50225929028.d	50225929028	L/28820	SAMPLE	1	mlvpahsim	5/24/19	16:50	grm	
1/50225765007.d	50225765007	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:02	grm	
1/50225995010.d	50225995010	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:13	grm	
1/50225995014.d	50225995014	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:25	grm	
1/50225995019.d	50225995019	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:36	grm	
1/50226043009.d	50226043009	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:48	grm	
1/50225987001.d	50225987001	L/28820	SAMPLE	1	mlvpahsim	5/24/19	17:59	grm	
1/50225987002.d	50225987002	L/28820	SAMPLE	1	mlvpahsim	5/24/19	18:11	grm	
1/50225987003x5.d	50225987003X5	L/28820	SAMPLE	5	mlvpahsim	5/24/19	18:22	grm	
1/50225987004.d	50225987004	L/28820	SAMPLE	1	mlvpahsim	5/24/19	18:33	grm	
1/50225542008x5.d	50225542008X5	L/28815	SAMPLE	5	mlvpahsim	5/24/19	18:45	grm	
1/2318323b.d	2318323	L/28824	BLANK	1	mlvpahsim	5/24/19	18:56	grm	
1/2318324l.d	2318324	L/28824	LCS	1	mlvpahsim	5/24/19	19:08	grm	
1/50225487008.d	50225487008	L/28824	SAMPLE	1	mlvpahsim	5/24/19	19:19	grm	
1/50225490011.d	50225490011	L/28824	SAMPLE	1	mlvpahsim	5/24/19	19:30	grm	
1/50225703001.d	50225703001	L/28824	SAMPLE	1	mlvpahsim	5/24/19	19:42	grm	
1/50225703002.d	50225703002	L/28824	SAMPLE	1	mlvpahsim	5/24/19	19:53	grm	
1/50225703003.d	50225703003	L/28824	SAMPLE	1	mlvpahsim	5/24/19	20:05	grm	NR

File Path 1: \\192.168.50.6\chem\50mss5.i\052419.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:53 05/28/2019

5-28-19
Reviewed By/Date: grm Page: 1 of 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mss5.i
Column Rtx-5MS 15m X 0.25mm
Misc. Prep Info [L]: MeCl2 Lot# 173082
ISTD lot: 199046:1
Lot:
Tune std: _____

Method: Low-Level PAH Report by SW-846 Meth
Surr. lot:
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/sblank.d	SBLANK	L/	SAMPLE	1	mlvpahsim	5/28/19	10:57	grm	
1/sblank-b.d	SBLANK	L/	SAMPLE	1	mlvpahsim	5/28/19	12:34	grm	
1/ccv050.d	CCV,201765:1	L/28328	CCALIB_4	1	mlvpahsim	5/28/19	12:45	grm	NR
1/ccv050-b.d	CCV,201765:1	L/28328	CCALIB_4	1	mlvpahsim	5/28/19	13:04	grm	NR Reinjection
1/ccv050-c.d	CCV,201765:1	L/28328	CCALIB_4	1	mlvpahsim	5/28/19	13:18	grm	ok used mid-pt of cal
1/2320358b.d	2320358	L/28829	BLANK	1	mlvpahsim	5/28/19	13:50	grm	
1/23203591.d	2320359	L/28829	LCS	1	mlvpahsim	5/28/19	14:01	grm	
1/5214416001.d	5214416001	L/28829	SAMPLE	1	mlvpahsim	5/28/19	14:13	grm	
1/5214416002.d	5214416002	L/28829	SAMPLE	1	mlvpahsim	5/28/19	14:24	grm	
1/50226057003.d	50226057003	L/28829	SAMPLE	1	mlvpahsim	5/28/19	14:35	grm	
1/50226057004.d	50226057004	L/28829	SAMPLE	1	mlvpahsim	5/28/19	14:47	grm	
1/50226057007.d	50226057007	L/28829	SAMPLE	1	mlvpahsim	5/28/19	14:58	grm	
1/50226057008.d	50226057008	L/28829	SAMPLE	1	mlvpahsim	5/28/19	15:10	grm	
1/50226102001.d	50226102001	L/28829	SAMPLE	1	mlvpahsim	5/28/19	15:21	grm	
1/50226102002.d	50226102002	L/28829	SAMPLE	1	mlvpahsim	5/28/19	15:33	grm	
1/50226102003.d	50226102003	L/28829	SAMPLE	1	mlvpahsim	5/28/19	15:44	grm	
1/50226102004.d	50226102004	L/28829	SAMPLE	1	mlvpahsim	5/28/19	15:55	grm	
1/50225703003.d	50225703003	L/28824	SAMPLE	1	mlvpahsim	5/28/19	16:07	grm	NR
1/50225465001.d	50225465001	L/28824	SAMPLE	1	mlvpahsim	5/28/19	16:18	grm	
1/50225465002.d	50225465002	L/28824	SAMPLE	1	mlvpahsim	5/28/19	16:30	grm	
1/50225468001.d	50225468001	L/28824	SAMPLE	1	mlvpahsim	5/28/19	16:41	grm	
1/2318325m.d	2318325	L/28824	MS	1	mlvpahsim	5/28/19	16:53	grm	
1/2318326d.d	2318326	L/28824	MSD	1	mlvpahsim	5/28/19	17:04	grm	
1/50225468002.d	50225468002	L/28824	SAMPLE	1	mlvpahsim	5/28/19	17:16	grm	
1/50225468003.d	50225468003	L/28824	SAMPLE	1	mlvpahsim	5/28/19	17:27	grm	
1/50225468004.d	50225468004	L/28824	SAMPLE	1	mlvpahsim	5/28/19	17:39	grm	
1/50225468005.d	50225468005	L/28824	SAMPLE	1	mlvpahsim	5/28/19	17:50	grm	
1/50225468006.d	50225468006	L/28824	SAMPLE	1	mlvpahsim	5/28/19	18:01	grm	
1/50225773001.d	50225773001	L/28824	SAMPLE	1	mlvpahsim	5/28/19	18:13	grm	
1/50225773002.d	50225773002	L/28824	SAMPLE	1	mlvpahsim	5/28/19	18:24	grm	
1/50225773003.d	50225773003	L/28824	SAMPLE	1	mlvpahsim	5/28/19	18:36	grm	

File Path 1: \\192.168.50.6\chem\50mss5.i\052819.b
Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:00 05/29/2019

Reviewed By/Date: _____ Page: 1 of 3

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mss5.i

Column Rtx-5MS 15m X 0.25mm Method: Low-Level PAH Report by SW-846 Method 8270 SIM

Misc. Prep Info [L]: MeCl2 Lot# 173082

ISTD lot: 199046:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/2319997b.d	2319997	L/28830	BLANK	1	mlvpahsim	5/28/19	18:47	grm	
1/2319998l.d	2319998	L/28830	LCS	1	mlvpahsim	5/28/19	18:59	grm	
1/50226057001.d	50226057001	L/28830	SAMPLE	1	mlvpahsim	5/28/19	19:10	grm	
1/50226057002.d	50226057002	L/28830	SAMPLE	1	mlvpahsim	5/28/19	19:21	grm	
1/50226057005.d	50226057005	L/28830	SAMPLE	1	mlvpahsim	5/28/19	19:33	grm	
1/50226057006.d	50226057006	L/28830	SAMPLE	1	mlvpahsim	5/28/19	19:44	grm	
1/50226057009.d	50226057009	L/28830	SAMPLE	1	mlvpahsim	5/28/19	19:56	grm	
1/50226057010.d	50226057010	L/28830	SAMPLE	1	mlvpahsim	5/28/19	20:07	grm	
1/50226057011.d	50226057011	L/28830	SAMPLE	1	mlvpahsim	5/28/19	20:19	grm	
1/50226057012.d	50226057012	L/28830	SAMPLE	1	mlvpahsim	5/28/19	20:30	grm	
1/50226057015.d	50226057015	L/28830	SAMPLE	1	mlvpahsim	5/28/19	20:42	grm	
1/2320360b.d	2320360	L/28834	BLANK	1	mlvpahsim	5/28/19	20:53	grm	
1/2320361l.d	2320361	L/28834	LCS	1	mlvpahsim	5/28/19	21:04	grm	
1/50225773004.d	50225773004	L/28834	SAMPLE	1	mlvpahsim	5/28/19	21:16	grm	
1/50225773005.d	50225773005	L/28834	SAMPLE	1	mlvpahsim	5/28/19	21:27	grm	
1/50225773006.d	50225773006	L/28834	SAMPLE	1	mlvpahsim	5/28/19	21:39	grm	
1/50225773007.d	50225773007	L/28834	SAMPLE	1	mlvpahsim	5/28/19	21:50	grm	
1/50225773008.d	50225773008	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:02	grm	
1/50225773009.d	50225773009	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:13	grm	
1/50225773010.d	50225773010	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:25	grm	
1/50225773011.d	50225773011	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:36	grm	
1/50225774001.d	50225774001	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:47	grm	
1/50225774002.d	50225774002	L/28834	SAMPLE	1	mlvpahsim	5/28/19	22:59	grm	
1/50225774003.d	50225774003	L/28834	SAMPLE	1	mlvpahsim	5/28/19	23:10	grm	
1/50225774004.d	50225774004	L/28834	SAMPLE	1	mlvpahsim	5/28/19	23:22	grm	
1/50225774005.d	50225774005	L/28834	SAMPLE	1	mlvpahsim	5/28/19	23:33	grm	
1/50225774006.d	50225774006	L/28834	SAMPLE	1	mlvpahsim	5/28/19	23:44	grm	
1/50225774007.d	50225774007	L/28834	SAMPLE	1	mlvpahsim	5/28/19	23:56	grm	
1/50225774008.d	50225774008	L/28834	SAMPLE	1	mlvpahsim	5/29/19	00:07	grm	
1/50225774009.d	50225774009	L/28834	SAMPLE	1	mlvpahsim	5/29/19	00:19	grm	
1/50225774010.d	50225774010	L/28834	SAMPLE	1	mlvpahsim	5/29/19	00:30	grm	

File Path 1: \\192.168.50.6\chem\50mss5.i\052819.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 13:00 05/29/2019

Reviewed By/Date: _____ Page: 2 of 3

INSTRUMENT RUN LOG

Pace Analytical Services, Inc.

Instrument: 50mss5.i

Column Rtx-5MS 15m X 0.25mm Method: Low-Level PAH Report by SW-846 Method 8270 SIM

Misc. Prep Info [L]: MeCl2 Lot# 173082

ISTD lot: 199046:1 Surr. lot:

Lot:

Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/50225774011.d	50225774011	L/28834	SAMPLE	1	mlvpahsim	5/29/19	00:42	grm	

File Path 1: \\192.168.50.6\chem\50mss5.i\052819.b

Matrix Codes: [B]iota, [G]as, [L]iquid, [S]olid, [N]one

Report Date: 13:00 05/29/2019

5-29-19

Reviewed By/Date: _____ Page: 3 of 3

SAMPLE NO.

SP-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<3.3	U	ug/L	1	05/21/2019 23:33
7440-38-2	Arsenic	8.2	J	ug/L	1	05/21/2019 23:33
7440-39-3	Barium	276		ug/L	1	05/21/2019 23:33
7440-41-7	Beryllium	<0.24	U	ug/L	1	05/21/2019 23:33
7440-43-9	Cadmium	<0.44	U	ug/L	1	05/21/2019 23:33
7440-47-3	Chromium	<1.1	U	ug/L	1	05/21/2019 23:33
7440-50-8	Copper	<2.7	U	ug/L	1	05/21/2019 23:33
7439-92-1	Lead	<3.5	U	ug/L	1	05/21/2019 23:33
7440-02-0	Nickel	3.7	J	ug/L	1	05/21/2019 23:33
7782-49-2	Selenium	<5.2	U	ug/L	1	05/21/2019 23:33
7440-22-4	Silver	<1.2	U	ug/L	1	05/21/2019 23:33
7440-66-6	Zinc	3.5	J	ug/L	1	05/21/2019 23:33

SAMPLE NO.

SP-3

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	3.9	J	ug/L	1	05/21/2019 23:45
7440-38-2	Arsenic	10	J	ug/L	1	05/21/2019 23:45
7440-39-3	Barium	203		ug/L	1	05/21/2019 23:45
7440-41-7	Beryllium	1.6	J	ug/L	1	05/21/2019 23:45
7440-43-9	Cadmium	1.3	J	ug/L	1	05/21/2019 23:45
7440-47-3	Chromium	44.6		ug/L	1	05/21/2019 23:45
7440-50-8	Copper	18.1		ug/L	1	05/21/2019 23:45
7439-92-1	Lead	33.2		ug/L	1	05/21/2019 23:45
7440-02-0	Nickel	29.4		ug/L	1	05/21/2019 23:45
7782-49-2	Selenium	<5.2	U	ug/L	1	05/21/2019 23:45
7440-22-4	Silver	<1.2	U	ug/L	1	05/21/2019 23:45
7440-66-6	Zinc	69.2		ug/L	1	05/21/2019 23:45

SAMPLE NO.

SP-4

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<3.3	U	ug/L	1	05/21/2019 23:47
7440-38-2	Arsenic	14.9		ug/L	1	05/21/2019 23:47
7440-39-3	Barium	607		ug/L	1	05/21/2019 23:47
7440-41-7	Beryllium	1.2	J	ug/L	1	05/21/2019 23:47
7440-43-9	Cadmium	0.73	J	ug/L	1	05/21/2019 23:47
7440-47-3	Chromium	22.7		ug/L	1	05/21/2019 23:47
7440-50-8	Copper	24.3		ug/L	1	05/21/2019 23:47
7439-92-1	Lead	26.4		ug/L	1	05/21/2019 23:47
7440-02-0	Nickel	18.0		ug/L	1	05/21/2019 23:47
7782-49-2	Selenium	<5.2	U	ug/L	1	05/21/2019 23:47
7440-22-4	Silver	<1.2	U	ug/L	1	05/21/2019 23:47
7440-66-6	Zinc	68.1		ug/L	1	05/21/2019 23:47

SAMPLE NO.

SP-5

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<3.3	U	ug/L	1	05/21/2019 23:50
7440-38-2	Arsenic	12.4		ug/L	1	05/21/2019 23:50
7440-39-3	Barium	459		ug/L	1	05/21/2019 23:50
7440-41-7	Beryllium	<0.24	U	ug/L	1	05/21/2019 23:50
7440-43-9	Cadmium	0.58	J	ug/L	1	05/21/2019 23:50
7440-47-3	Chromium	2.8	J	ug/L	1	05/21/2019 23:50
7440-50-8	Copper	<2.7	U	ug/L	1	05/21/2019 23:50
7439-92-1	Lead	<3.5	U	ug/L	1	05/21/2019 23:50
7440-02-0	Nickel	5.8	J	ug/L	1	05/21/2019 23:50
7782-49-2	Selenium	<5.2	U	ug/L	1	05/21/2019 23:50
7440-22-4	Silver	<1.2	U	ug/L	1	05/21/2019 23:50
7440-66-6	Zinc	12.7	J	ug/L	1	05/21/2019 23:50

SAMPLE NO.

SP-5 DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<3.3	U	ug/L	1	05/21/2019 23:52
7440-38-2	Arsenic	12.1		ug/L	1	05/21/2019 23:52
7440-39-3	Barium	460		ug/L	1	05/21/2019 23:52
7440-41-7	Beryllium	<0.24	U	ug/L	1	05/21/2019 23:52
7440-43-9	Cadmium	0.59	J	ug/L	1	05/21/2019 23:52
7440-47-3	Chromium	3.4	J	ug/L	1	05/21/2019 23:52
7440-50-8	Copper	<2.7	U	ug/L	1	05/21/2019 23:52
7439-92-1	Lead	<3.5	U	ug/L	1	05/21/2019 23:52
7440-02-0	Nickel	6.8	J	ug/L	1	05/21/2019 23:52
7782-49-2	Selenium	<5.2	U	ug/L	1	05/21/2019 23:52
7440-22-4	Silver	<1.2	U	ug/L	1	05/21/2019 23:52
7440-66-6	Zinc	15.7	J	ug/L	1	05/21/2019 23:52

SAMPLE NO.

EQ Blank

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-36-0	Antimony	<3.3	U	ug/L	1	05/24/2019 22:58
7440-38-2	Arsenic	<4.3	U	ug/L	1	05/24/2019 22:58
7440-39-3	Barium	<0.66	U	ug/L	1	05/24/2019 22:58
7440-41-7	Beryllium	<0.24	U	ug/L	1	05/24/2019 22:58
7440-43-9	Cadmium	<0.44	U	ug/L	1	05/24/2019 22:58
7440-47-3	Chromium	<1.1	U	ug/L	1	05/24/2019 22:58
7440-50-8	Copper	<2.7	U	ug/L	1	05/24/2019 22:58
7439-92-1	Lead	<3.5	U	ug/L	1	05/24/2019 22:58
7440-02-0	Nickel	<1.0	U	ug/L	1	05/24/2019 22:58
7782-49-2	Selenium	<5.2	U	ug/L	1	05/24/2019 22:58
7440-22-4	Silver	<1.2	U	ug/L	1	05/24/2019 22:58
7440-66-6	Zinc	1.6	J	ug/L	1	05/24/2019 22:58

SAMPLE NO.

SP-4 FIELD FILTERED

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	4.7	J	ug/L	1	06/10/2019 13:44
7439-92-1	Lead	3.7	J	ug/L	1	06/10/2019 13:44

SAMPLE NO.

SP-5 FIELD FILTERED

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	10.2		ug/L	1	06/10/2019 13:46

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 209431

Continuing Calibration Verification Source: 209432

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	05/21/2019 20:52				05/21/2019 21:32			05/21/2019 22:39			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Antimony	1000	1020	102.3	90-110	1000	1030	103.0	1000	1010	101.4	90-110
Arsenic	1000	1030	103.4	90-110	1000	1040	103.7	1000	1020	102.0	90-110
Barium	1000	999	99.9	90-110	1000	1010	100.8	1000	993	99.3	90-110
Beryllium	1000	1010	100.6	90-110	1000	1010	101.0	1000	994	99.4	90-110
Cadmium	1000	1010	101.3	90-110	1000	1010	101.4	1000	997	99.7	90-110
Chromium	1000	1000	100.5	90-110	1000	1010	101.3	1000	993	99.3	90-110
Copper	1000	975	97.5	90-110	1000	991	99.1	1000	973	97.3	90-110
Lead	1000	964	96.4	90-110	1000	957	95.7	1000	943	94.3	90-110
Nickel	1000	1030	102.9	90-110	1000	1020	102.2	1000	1010	101.0	90-110
Selenium	1000	1010	101.0	90-110	1000	1020	101.6	1000	1000	100.4	90-110
Silver	500	477	95.4	90-110	500	482	96.3	500	474	94.7	90-110
Zinc	1000	1040	103.6	90-110	1000	1020	102.4	1000	1010	100.8	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 209432

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification									
	05/21/2019 23:08			05/21/2019 23:36			05/22/2019 00:04			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Antimony	1000	1020	102.4	1000	1010	100.9	1000	1020	102.4	90-110
Arsenic	1000	1030	103.0	1000	1020	101.8	1000	1030	102.8	90-110
Barium	1000	997	99.7	1000	987	98.7	1000	992	99.2	90-110
Beryllium	1000	1010	100.9	1000	1000	100.0	1000	1000	100.4	90-110
Cadmium	1000	1010	101.3	1000	999	99.9	1000	1010	101.0	90-110
Chromium	1000	1010	100.6	1000	995	99.5	1000	1010	100.8	90-110
Copper	1000	982	98.2	1000	970	97.0	1000	982	98.2	90-110
Lead	1000	952	95.2	1000	942	94.2	1000	952	95.2	90-110
Nickel	1000	1010	101.4	1000	1000	100.5	1000	1010	101.2	90-110
Selenium	1000	1000	100.3	1000	994	99.4	1000	1000	100.4	90-110
Silver	500	479	95.8	500	474	94.9	500	479	95.9	90-110
Zinc	1000	1020	102.5	1000	1010	101.4	1000	1020	101.8	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210008

Continuing Calibration Verification Source: 210009

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	05/24/2019 20:42				05/24/2019 20:51			05/24/2019 22:26			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Antimony	1000	1000	100.5	90-110	1000	965	96.5	1000	990	99.0	90-110
Arsenic	1000	1000	100.2	90-110	1000	951	95.1	1000	973	97.3	90-110
Barium	1000	996	99.6	90-110	1000	977	97.7	1000	973	97.3	90-110
Beryllium	1000	1010	100.8	90-110	1000	990	99.0	1000	994	99.4	90-110
Cadmium	1000	992	99.2	90-110	1000	948	94.8	1000	980	98.0	90-110
Chromium	1000	965	96.5	90-110	1000	949	94.9	1000	953	95.3	90-110
Copper	1000	961	96.1	90-110	1000	952	95.2	1000	947	94.7	90-110
Lead	1000	944	94.4	90-110	1000	901	90.1	1000	930	93.0	90-110
Nickel	1000	994	99.4	90-110	1000	942	94.2	1000	972	97.2	90-110
Selenium	1000	983	98.3	90-110	1000	943	94.3	1000	958	95.8	90-110
Silver	500	481	96.2	90-110	500	477	95.4	500	474	94.8	90-110
Zinc	1000	1010	100.9	90-110	1000	957	95.7	1000	996	99.6	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210009

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification						
	05/24/2019 22:52			05/24/2019 23:17			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Antimony	1000	996	99.6	1000	1000	100.2	90-110
Arsenic	1000	978	97.8	1000	991	99.1	90-110
Barium	1000	975	97.5	1000	985	98.5	90-110
Beryllium	1000	994	99.4	1000	1010	100.6	90-110
Cadmium	1000	984	98.4	1000	990	99.0	90-110
Chromium	1000	956	95.6	1000	975	97.5	90-110
Copper	1000	950	95.0	1000	970	97.0	90-110
Lead	1000	931	93.1	1000	950	95.0	90-110
Nickel	1000	976	97.6	1000	991	99.1	90-110
Selenium	1000	959	95.9	1000	974	97.4	90-110
Silver	500	477	95.4	500	485	97.0	90-110
Zinc	1000	998	99.8	1000	1010	101.4	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 211595

Continuing Calibration Verification Source: 211596, 211855

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	06/10/2019 08:37				06/10/2019 09:10			06/10/2019 13:23			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Arsenic	1000	1010	100.7	90-110	1000	999	99.9	1000	1010	101.0	90-110
Lead	1000	994	99.4	90-110	1000	988	98.8	1000	1000	100.3	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 211855, 211596

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification									
	06/10/2019 13:51			06/10/2019 14:07			06/10/2019 14:34			Control Limit
Analyte	True	Found	%R	True	Found	%R	True	Found	%R	
Arsenic	1000	1010	101.4	1000	1020	101.6	1000	1030	102.6	90-110
Lead	1000	1000	100.3	1000	1000	100.0	1000	1020	101.5	90-110

FORM II INORGANIC-3

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 211855

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification			
	06/10/2019 14:34			Control Limit
Analyte	True	Found	%R	
Arsenic	1000	1030	102.6	90-110
Lead	1000	1020	101.5	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 211854

Continuing Calibration Verification Source: 211855

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	06/11/2019 08:56				06/11/2019 09:29			06/11/2019 10:26			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Arsenic	1000	997	99.7	90-110	1000	986	98.6	1000	1040	104.4	90-110
Lead	1000	971	97.1	90-110	1000	959	95.9	1000	1010	101.3	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 211855

Concentration Units: ug/L Instrument ID: 50ICP3

	Continuing Calibration Verification			
	06/11/2019 10:53			Control Limit
Analyte	True	Found	%R	
Arsenic	1000	1020	102.5	90-110
Lead	1000	996	99.6	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 209758 Analysis Date/Time: 05/21/2019 20:57

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	6.0	5.9	98.6	50-150
Arsenic	10.0	11.9	118.9	50-150
Barium	10.0	10.4	104.0	50-150
Beryllium	4.0	4.1	102.9	50-150
Cadmium	2.0	1.9	95.8	50-150
Chromium	10.0	10.2	101.8	50-150
Copper	10.0	10.2	102.5	50-150
Lead	10.0	9.4	93.7	50-150
Nickel	10.0	10.4	104.0	50-150
Selenium	10.0	8.8	88.0	50-150
Silver	10.0	9.9	99.5	50-150
Zinc	20	22.8	114.2	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210076 Analysis Date/Time: 05/24/2019 20:24

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Antimony	6.0	8.0	134.0	50-150
Arsenic	10.0	10.2	101.5	50-150
Barium	10.0	9.8	97.7	50-150
Beryllium	4.0	4.0	100.6	50-150
Cadmium	2.0	2.0	97.6	50-150
Chromium	10.0	9.9	98.7	50-150
Copper	10.0	8.7	87.0	50-150
Lead	10.0	9.7	96.8	50-150
Nickel	10.0	9.8	98.4	50-150
Selenium	10.0	8.0	80.0	50-150
Silver	10.0	9.6	95.9	50-150
Zinc	20	20.5	102.4	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 211319 Analysis Date/Time: 06/10/2019 08:41

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Arsenic	10.0	8.7	87.0	50-150
Lead	10.0	10.1	100.7	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 211916 Analysis Date/Time: 06/11/2019 09:00

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Arsenic	10.0	7.8	78.1	50-150
Lead	10.0	9.3	93.2	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/21/2019 20:54	C	05/21/2019 21:34	C	05/21/2019 22:41	C	05/21/2019 23:10	C	2313609	C
Antimony	4.0	U	4.0	U	4.0	U	4.8	J	<3.3	U
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	<4.3	U
Barium	5.0	U	5.0	U	5.0	U	5.0	U	<0.66	U
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	<0.24	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	<0.44	U
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	<1.1	U
Copper	5.0	U	5.0	U	5.0	U	5.0	U	<2.7	U
Lead	4.0	U	4.0	U	4.0	U	4.0	U	<3.5	U
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	<1.0	U
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	<5.2	U
Silver	5.0	U	5.0	U	5.0	U	5.0	U	<1.2	U
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	1.5	J

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICP3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	05/21/2019 23:38	C	05/22/2019 00:06	C		C
Antimony			4.0	U	4.0	U		
Arsenic			5.0	U	5.0	U		
Barium			5.0	U	5.0	U		
Beryllium			2.0	U	2.0	U		
Cadmium			1.0	U	1.0	U		
Chromium			5.0	U	5.0	U		
Copper			5.0	U	5.0	U		
Lead			4.0	U	4.0	U		
Nickel			5.0	U	5.0	U		
Selenium			5.0	U	5.0	U		
Silver			5.0	U	5.0	U		
Zinc			10.0	U	10.0	U		

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/24/2019 20:22	C	05/24/2019 20:53	C	05/24/2019 22:28	C	05/24/2019 22:53	C	2316804	C
Antimony	4.4	J	4.0	U	4.0	U	4.0	U	<3.3	U
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	<4.3	U
Barium	5.0	U	5.0	U	5.0	U	5.0	U	<0.66	U
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	<0.24	U
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	<0.44	U
Chromium	5.0	U	5.0	U	5.0	U	5.0	U	<1.1	U
Copper	5.0	U	5.0	U	5.0	U	5.0	U	<2.7	U
Lead	4.0	U	4.0	U	4.0	U	4.0	U	<3.5	U
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	<1.0	U
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	<5.2	U
Silver	5.0	U	5.0	U	5.0	U	5.0	U	<1.2	U
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	2.2	J

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICP3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	05/24/2019 23:19	C		C		C
Antimony			4.0	U				
Arsenic			5.0	U				
Barium			5.0	U				
Beryllium			2.0	U				
Cadmium			1.0	U				
Chromium			5.0	U				
Copper			5.0	U				
Lead			4.0	U				
Nickel			5.0	U				
Selenium			5.0	U				
Silver			5.0	U				
Zinc			10.0	U				

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICP3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	06/10/2019 08:39	C	06/10/2019 09:12	C	06/10/2019 13:25	C	06/10/2019 13:52	C
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U
Lead	4.0	U	4.0	U	4.0	U	4.0	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICP3

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)			
		C	06/10/2019 14:08	C	06/10/2019 14:36	C
Arsenic			5.0	U	5.0	U
Lead			4.0	U	4.0	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50ICP3

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	06/11/2019 08:58	C	06/11/2019 09:31	C	06/11/2019 10:28	C	06/11/2019 10:55	C	2331106	C
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	<3.8	U
Lead	4.0	U	4.0	U	4.0	U	4.0	U	<2.7	U

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 05/21/2019 20:59

ICS Source: 209423,209324 Solution AB Run Date: 05/21/2019 21:01

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	489500	97.9	490400	98.1	80-120
Antimony		500	5.496		504	100.8	80-120
Arsenic		500	0.6677		521.7	104.3	80-120
Barium		500	0.9072		498.9	99.8	80-120
Beryllium		500	-0.0201		493.4	98.7	80-120
Cadmium		500	-0.1378		510.4	102.1	80-120
Calcium	500000	500000	447700	89.5	447900	89.6	80-120
Chromium		500	-0.0201		474.5	94.9	80-120
Copper		500	0.1561		508	101.6	80-120
Iron	200000	200000	184100	92.1	184100	92.1	80-120
Lead		500	4.039		419.5	83.9	80-120
Magnesium	500000	500000	501800	100.4	504700	100.9	80-120
Nickel		500	1.41		442.5	88.5	80-120
Selenium		500	-0.4219		496.2	99.2	80-120
Silver		250	-0.4047		257	102.8	80-120
Zinc		500	-8.524		451.9	90.4	80-120

FORM IV INORGANIC-2
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 05/21/2019 23:03

ICS Source: 209423,209324 Solution AB Run Date: 05/21/2019 23:06

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	477700	95.5	479500	95.9	80-120
Antimony		500	2.654		498.8	99.8	80-120
Arsenic		500	2.502		511.9	102.4	80-120
Barium		500	0.814		489.1	97.8	80-120
Beryllium		500	0.0272		484.1	96.8	80-120
Cadmium		500	-0.2199		510.9	102.2	80-120
Calcium	500000	500000	430200	86	428800	85.8	80-120
Chromium		500	0.065		465.6	93.1	80-120
Copper		500	0.39		506.2	101.2	80-120
Iron	200000	200000	176700	88.4	177600	88.8	80-120
Lead		500	4.462		412.8	82.6	80-120
Magnesium	500000	500000	488000	97.6	488100	97.6	80-120
Nickel		500	1.561		437.7	87.5	80-120
Selenium		500	3.627		496.4	99.3	80-120
Silver		250	-0.8876		255.7	102.3	80-120
Zinc		500	-8.341		445.6	89.1	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 05/24/2019 20:27

ICS Source: 209950,209902 Solution AB Run Date: 05/24/2019 20:29

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	480500	96.1	474000	94.8	80-120
Antimony		500	3.644		471.8	94.4	80-120
Arsenic		500	2.092		485.7	97.1	80-120
Barium		500	0.5747		490.2	98	80-120
Beryllium		500	-0.0377		490.7	98.1	80-120
Cadmium		500	0.0575		491.8	98.4	80-120
Calcium	500000	500000	444200	88.8	438800	87.8	80-120
Chromium		500	-1.172		453.7	90.7	80-120
Copper		500	-0.4381		496.2	99.2	80-120
Iron	200000	200000	187200	93.6	184900	92.5	80-120
Lead		500	3.479		406.4	81.3	80-120
Magnesium	500000	500000	508800	101.8	500300	100.1	80-120
Nickel		500	1.162		422.1	84.4	80-120
Selenium		500	5.922		470.6	94.1	80-120
Silver		250	-0.7146		250.9	100.4	80-120
Zinc		500	-8.472		435.5	87.1	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 06/10/2019 08:43

ICS Source: 211568,211569 Solution AB Run Date: 06/10/2019 08:46

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	520600	104.1	524100	104.8	80-120
Antimony		500	3.274		496.2	99.2	80-120
Arsenic		500	-4.381		525.2	105	80-120
Barium		500	0.835		508.5	101.7	80-120
Beryllium		500	-0.0816		520.6	104.1	80-120
Cadmium		500	-0.0707		550.3	110.1	80-120
Calcium	500000	500000	464300	92.9	467500	93.5	80-120
Chromium		500	-1.302		488.3	97.7	80-120
Copper		500	-0.083		533	106.6	80-120
Iron	200000	200000	194000	97	195400	97.7	80-120
Lead		500	-0.7866		456.6	91.3	80-120
Magnesium	500000	500000	532000	106.4	530800	106.2	80-120
Nickel		500	2.138		456.3	91.3	80-120
Selenium		500	4.376		537.3	107.5	80-120
Silver		250	-0.5847		248.3	99.3	80-120
Zinc		500	-9.084		485.6	97.1	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 06/11/2019 09:02

ICS Source: 211568,211569 Solution AB Run Date: 06/11/2019 09:05

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	529000	105.8	528800	105.8	80-120
Antimony		500	4.552		503.1	100.6	80-120
Arsenic		500	2.9		526	105.2	80-120
Barium		500	0.7898		510.8	102.2	80-120
Beryllium		500	-0.0657		512.8	102.6	80-120
Cadmium		500	0.1813		535.4	107.1	80-120
Calcium	500000	500000	479400	95.9	476100	95.2	80-120
Chromium		500	-0.0829		486.3	97.3	80-120
Copper		500	1.038		529.1	105.8	80-120
Iron	200000	200000	197800	98.9	197200	98.6	80-120
Lead		500	-3.476		444.3	88.9	80-120
Magnesium	500000	500000	547500	109.5	547100	109.4	80-120
Nickel		500	1.685		460	92	80-120
Selenium		500	6.753		524.2	104.8	80-120
Silver		250	-1.081		243.6	97.4	80-120
Zinc		500	-9.32		474.2	94.8	80-120

SAMPLE NO.

2313611MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225400001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	972	ND	1000	97
Arsenic	ug/L	75-125	1010	15.4	1000	99
Barium	ug/L	75-125	1160	202	1000	95
Beryllium	ug/L	75-125	955	ND	1000	95
Cadmium	ug/L	75-125	981	2.1	1000	98
Chromium	ug/L	75-125	967	57.8	1000	91
Copper	ug/L	75-125	1040	95.5	1000	94
Lead	ug/L	75-125	956	137	1000	82
Nickel	ug/L	75-125	982	109	1000	87
Selenium	ug/L	75-125	986	ND	1000	99
Silver	ug/L	75-125	486	ND	500	97
Zinc	ug/L	75-125	1280	401	1000	88

SAMPLE NO.

2313612MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225400001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	972	ND	1000	97
Arsenic	ug/L	75-125	1010	15.4	1000	99
Barium	ug/L	75-125	1160	202	1000	96
Beryllium	ug/L	75-125	960	ND	1000	96
Cadmium	ug/L	75-125	987	2.1	1000	99
Chromium	ug/L	75-125	976	57.8	1000	92
Copper	ug/L	75-125	1040	95.5	1000	95
Lead	ug/L	75-125	961	137	1000	82
Nickel	ug/L	75-125	989	109	1000	88
Selenium	ug/L	75-125	986	ND	1000	99
Silver	ug/L	75-125	488	ND	500	98
Zinc	ug/L	75-125	1290	401	1000	89

SAMPLE NO.

2313613MS

FORM V INORGANIC-3

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1010	<3.3	1000	101
Arsenic	ug/L	75-125	1020	8.2J	1000	101
Barium	ug/L	75-125	1250	276	1000	97
Beryllium	ug/L	75-125	981	<0.24	1000	98
Cadmium	ug/L	75-125	990	<0.44	1000	99
Chromium	ug/L	75-125	941	<1.1	1000	94
Copper	ug/L	75-125	956	<2.7	1000	95
Lead	ug/L	75-125	846	<3.5	1000	85
Nickel	ug/L	75-125	909	3.7J	1000	91
Selenium	ug/L	75-125	1000	<5.2	1000	100
Silver	ug/L	75-125	488	<1.2	500	98
Zinc	ug/L	75-125	942	3.5J	1000	94

SAMPLE NO.

2313614MSD

FORM V INORGANIC-4

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1010	<3.3	1000	101
Arsenic	ug/L	75-125	1010	8.2J	1000	100
Barium	ug/L	75-125	1250	276	1000	97
Beryllium	ug/L	75-125	988	<0.24	1000	99
Cadmium	ug/L	75-125	994	<0.44	1000	99
Chromium	ug/L	75-125	946	<1.1	1000	95
Copper	ug/L	75-125	952	<2.7	1000	95
Lead	ug/L	75-125	845	<3.5	1000	84
Nickel	ug/L	75-125	914	3.7J	1000	91
Selenium	ug/L	75-125	1000	<5.2	1000	100
Silver	ug/L	75-125	488	<1.2	500	98
Zinc	ug/L	75-125	944	3.5J	1000	94

SAMPLE NO.

2316806MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225740008

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	3290	30.5	5000	65*
Arsenic	ug/L	75-125	5330	789	5000	91
Barium	ug/L	75-125	6540	1940	5000	92
Beryllium	ug/L	75-125	4680	21.5	5000	93
Cadmium	ug/L	75-125	4720	13.8	5000	94
Chromium	ug/L	75-125	5080	752	5000	87
Copper	ug/L	75-125	6080	1450	5000	93
Lead	ug/L	75-125	4490	637	5000	77
Nickel	ug/L	75-125	4820	766	5000	81
Selenium	ug/L	75-125	4490	ND	5000	90
Silver	ug/L	75-125	2370	ND	2500	95
Zinc	ug/L	75-125	6990	2860	5000	83

* Spike Recovery outside QC Limits

SAMPLE NO.

2316807MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225740008

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	3250	30.5	5000	64*
Arsenic	ug/L	75-125	5250	789	5000	89
Barium	ug/L	75-125	6500	1940	5000	91
Beryllium	ug/L	75-125	4670	21.5	5000	93
Cadmium	ug/L	75-125	4670	13.8	5000	93
Chromium	ug/L	75-125	5020	752	5000	85
Copper	ug/L	75-125	5960	1450	5000	90
Lead	ug/L	75-125	4450	637	5000	76
Nickel	ug/L	75-125	4780	766	5000	80
Selenium	ug/L	75-125	4500	ND	5000	90
Silver	ug/L	75-125	2350	ND	2500	94
Zinc	ug/L	75-125	6760	2860	5000	78

* Spike Recovery outside QC Limits

SAMPLE NO.

2332014MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50227311002

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	ug/L	75-125	1090	220	1000	87
Lead	ug/L	75-125	914	246	1000	67*

* Spike Recovery outside QC Limits

SAMPLE NO.

2332015MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50227311002

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	ug/L	75-125	1080	220	1000	86
Lead	ug/L	75-125	911	246	1000	66*

* Spike Recovery outside QC Limits

SAMPLE NO.

2315237PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50225400001

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1	979	1	3.2U	1000	97.9
Arsenic	ug/L	75-125	1	1000	1	15.4	1000	98.9
Barium	ug/L	75-125	1	1140	1	202	1000	94.0
Beryllium	ug/L	75-125	1	958	1	1.3J	1000	95.7
Cadmium	ug/L	75-125	1	982	1	2.1	1000	98.0
Chromium	ug/L	75-125	1	971	1	57.8	1000	91.3
Copper	ug/L	75-125	1	1030	1	95.5	1000	93.7
Lead	ug/L	75-125	1	953	1	137	1000	81.6
Nickel	ug/L	75-125	1	982	1	109	1000	87.3
Selenium	ug/L	75-125	1	978	1	4.0U	1000	97.8
Silver	ug/L	75-125	1	481	1	0.85U	500	96.1
Zinc	ug/L	75-125	1	1290	1	401	1000	88.5

SAMPLE NO.

2319685PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50225740008

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Antimony	ug/L	75-125	1	911	1	6.1	1000	90.5
Arsenic	ug/L	75-125	1	1050	1	158	1000	89.3
Barium	ug/L	75-125	1	1280	1	389	1000	88.9
Beryllium	ug/L	75-125	1	923	1	4.3	1000	91.9
Cadmium	ug/L	75-125	1	924	1	2.8	1000	92.1
Chromium	ug/L	75-125	1	997	1	150	1000	84.6
Copper	ug/L	75-125	1	1200	1	291	1000	90.7
Lead	ug/L	75-125	1	887	1	127	1000	75.9
Nickel	ug/L	75-125	1	950	1	153	1000	79.6
Selenium	ug/L	75-125	1	890	1	4.0U	1000	89.0
Silver	ug/L	75-125	1	466	1	0.85U	500	93.3
Zinc	ug/L	75-125	1	1370	1	572	1000	80.2

SAMPLE NO.

2332468PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50227311002

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	ug/L	75-125	1	1090	1	220	1000	87.4
Lead	ug/L	75-125	1	909	1	246	1000	66.3*

SAMPLE NO.

2313612MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	972	972	0
Arsenic	20	1010	1010	0
Barium	20	1160	1160	0
Beryllium	20	955	960	0
Cadmium	20	981	987	1
Chromium	20	967	976	1
Copper	20	1040	1040	0
Lead	20	956	961	1
Nickel	20	982	989	1
Selenium	20	986	986	0
Silver	20	486	488	1
Zinc	20	1280	1290	1

SAMPLE NO.

2313614MSD

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	1010	1010	0
Arsenic	20	1020	1010	1
Barium	20	1250	1250	0
Beryllium	20	981	988	1
Cadmium	20	990	994	0
Chromium	20	941	946	0
Copper	20	956	952	0
Lead	20	846	845	0
Nickel	20	909	914	1
Selenium	20	1000	1000	0
Silver	20	488	488	0
Zinc	20	942	944	0

SAMPLE NO.

2316807MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Antimony	20	3290	3250	1
Arsenic	20	5330	5250	2
Barium	20	6540	6500	1
Beryllium	20	4680	4670	0
Cadmium	20	4720	4670	1
Chromium	20	5080	5020	1
Copper	20	6080	5960	2
Lead	20	4490	4450	1
Nickel	20	4820	4780	1
Selenium	20	4490	4500	0
Silver	20	2370	2350	1
Zinc	20	6990	6760	3

SAMPLE NO.

2332015MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Arsenic	20	1090	1080	1
Lead	20	914	911	0

SAMPLE NO.

2313610LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Antimony	ug/L	1000	996	100	80	120
Arsenic	ug/L	1000	971	97	80	120
Barium	ug/L	1000	969	97	80	120
Beryllium	ug/L	1000	986	99	80	120
Cadmium	ug/L	1000	978	98	80	120
Chromium	ug/L	1000	977	98	80	120
Copper	ug/L	1000	958	96	80	120
Lead	ug/L	1000	925	93	80	120
Nickel	ug/L	1000	985	99	80	120
Selenium	ug/L	1000	979	98	80	120
Silver	ug/L	500	473	95	80	120
Zinc	ug/L	1000	976	98	80	120

SAMPLE NO.

2316805LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Antimony	ug/L	1000	996	100	80	120
Arsenic	ug/L	1000	953	95	80	120
Barium	ug/L	1000	977	98	80	120
Beryllium	ug/L	1000	1010	101	80	120
Cadmium	ug/L	1000	986	99	80	120
Chromium	ug/L	1000	957	96	80	120
Copper	ug/L	1000	957	96	80	120
Lead	ug/L	1000	933	93	80	120
Nickel	ug/L	1000	976	98	80	120
Selenium	ug/L	1000	968	97	80	120
Silver	ug/L	500	475	95	80	120
Zinc	ug/L	1000	988	99	80	120

SAMPLE NO.

2331107LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Arsenic	ug/L	1000	1010	101	80	120
Lead	ug/L	1000	1020	102	80	120

SAMPLE NO.

2315238SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50225400001

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	3.2U	42.9		10
Arsenic	ug/L	15.4	23.3J	51.2*	10
Barium	ug/L	202	206	2.1	10
Beryllium	ug/L	1.3J	1.9J	42.2*	10
Cadmium	ug/L	2.1	2.8J	32.7*	10
Chromium	ug/L	57.8	59.7	3.3	10
Copper	ug/L	95.5	96.7	1.2	10
Lead	ug/L	137	150	10.1*	10
Nickel	ug/L	109	118	8.7	10
Selenium	ug/L	4.0U	20.0U		10
Silver	ug/L	0.85U	4.2U		10
Zinc	ug/L	401	433	8.0	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

SAMPLE NO.

2319686SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50225740008

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Antimony	ug/L	6.1	30.4	398.9*	10
Arsenic	ug/L	158	166	4.9	10
Barium	ug/L	389	414	6.5	10
Beryllium	ug/L	4.3	5.0J	15.7*	10
Cadmium	ug/L	2.8	4.9J	76.9*	10
Chromium	ug/L	150	168	11.7*	10
Copper	ug/L	291	301	3.7	10
Lead	ug/L	127	152	19.0*	10
Nickel	ug/L	153	177	15.9*	10
Selenium	ug/L	4.0U	20.0U		10
Silver	ug/L	0.85U	4.2U		10
Zinc	ug/L	572	660	15.4*	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

SAMPLE NO.

2332469SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: 50227311002

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Arsenic	ug/L	220	228	4.1	10
Lead	ug/L	246	328	33.3*	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Instrument ID: 50ICP3 Effective Date:01/28/2016

Analyte	Concentration (ug/L)
Antimony	40000
Arsenic	35000
Barium	25000
Beryllium	10000
Cadmium	20000
Chromium	25000
Copper	100000
Lead	100000
Nickel	100000
Selenium	50000
Silver	10000
Zinc	50000

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 3010 Batch: MPRP 35817

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2313609	2313609BLANK	05/21/2019	50	50
2313610	2313610LCS	05/21/2019	25	25
2313611	2313611MS	05/21/2019	25	25
2313612	2313612MSD	05/21/2019	25	25
2313613	2313613MS	05/21/2019	25	25
2313614	2313614MSD	05/21/2019	25	25
50225468001	SP-1	05/21/2019	50	50
50225468002	SP-3	05/21/2019	50	50
50225468003	SP-4	05/21/2019	50	50
50225468004	SP-5	05/21/2019	50	50
50225468005	SP-5 DUP	05/21/2019	50	50

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 3010 Batch: MPRP 35873

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2316804	2316804BLANK	05/24/2019	50	50
2316805	2316805LCS	05/24/2019	25	25
2316806	2316806MS	05/24/2019	5	25
2316807	2316807MSD	05/24/2019	5	25
50225468006	EQ Blank	05/24/2019	50	50

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 3010 Batch: MPRP 36174

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2331106	2331106BLANK	06/10/2019	50	50
2331107	2331107LCS	06/10/2019	25	25
2332014	2332014MS	06/10/2019	25	25
2332015	2332015MSD	06/10/2019	25	25
50225468008	SP-4 FIELD FILTERED	06/10/2019	50	50
50225468009	SP-5 FIELD FILTERED	06/10/2019	50	50

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 05/21/2019 20:33 End Date: 05/22/2019 00:06

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	Ba	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Zn
15092684CAL0	15092684CAL0	1	05/21/2019	20:33	X	X	X	X	X	X	X	X	X	X	X	X
15092685CAL1	15092685CAL1	1	05/21/2019	20:36				X	X				X		X	X
15092686CAL2	15092686CAL2	1	05/21/2019	20:39			X				X					
15092687CAL3	15092687CAL3	1	05/21/2019	20:41		X										
15092688CAL4	15092688CAL4	1	05/21/2019	20:43						X		X				
15092689CAL5	15092689CAL5	1	05/21/2019	20:45										X		
15092691CAL7	15092691CAL7	1	05/21/2019	20:50	X											
15092692ICV	15092692ICV	1	05/21/2019	20:52	X	X	X	X	X	X	X	X	X	X	X	X
15092693ICB	15092693ICB	1	05/21/2019	20:54	X	X	X	X	X	X	X	X	X	X	X	X
15092694CRDL	15092694CRDL	1	05/21/2019	20:57	X	X	X	X	X	X	X	X	X	X	X	X
15092695ICSA	15092695ICSA	1	05/21/2019	20:59	X	X	X	X	X	X	X	X	X	X	X	X
15092696ICSAB	15092696ICSAB	1	05/21/2019	21:01	X	X	X	X	X	X	X	X	X	X	X	X
15092697CCV	15092697CCV	1	05/21/2019	21:32	X	X	X	X	X	X	X	X	X	X	X	X
15092698CCB	15092698CCB	1	05/21/2019	21:34	X	X	X	X	X	X	X	X	X	X	X	X
15092701CCV	15092701CCV	1	05/21/2019	22:39	X	X	X	X	X	X	X	X	X	X	X	X
15092702CCB	15092702CCB	1	05/21/2019	22:41	X	X	X	X	X	X	X	X	X	X	X	X
2313609BLANK	2313609	1	05/21/2019	22:45	X	X	X	X	X	X	X	X	X	X	X	X
2313610LCS	2313610	1	05/21/2019	22:47	X	X	X	X	X	X	X	X	X	X	X	X
50225400001	50225400001	1	05/21/2019	22:49									X			
2313611MS	2313611	1	05/21/2019	22:52	X	X	X	X	X	X	X	X	X	X	X	X
2313612MSD	2313612	1	05/21/2019	22:54	X	X	X	X	X	X	X	X	X	X	X	X
2315237PDS	2315237	1	05/21/2019	22:56	X	X	X	X	X	X	X	X	X	X	X	X
2315238SD	2315238	1	05/21/2019	22:59	X	X	X	X	X	X	X	X	X	X	X	X
15092703ICSA	15092703ICSA	1	05/21/2019	23:03	X	X	X	X	X	X	X	X	X	X	X	X
15092704ICSAB	15092704ICSAB	1	05/21/2019	23:06	X	X	X	X	X	X	X	X	X	X	X	X
15092705CCV	15092705CCV	1	05/21/2019	23:08	X	X	X	X	X	X	X	X	X	X	X	X
15092706CCB	15092706CCB	1	05/21/2019	23:10	X	X	X	X	X	X	X	X	X	X	X	X
SP-1	50225468001	1	05/21/2019	23:33	X	X	X	X	X	X	X	X	X	X	X	X
15092707CCV	15092707CCV	1	05/21/2019	23:36	X	X	X	X	X	X	X	X	X	X	X	X
15092708CCB	15092708CCB	1	05/21/2019	23:38	X	X	X	X	X	X	X	X	X	X	X	X
2313613MS	2313613	1	05/21/2019	23:40	X	X	X	X	X	X	X	X	X	X	X	X
2313614MSD	2313614	1	05/21/2019	23:43	X	X	X	X	X	X	X	X	X	X	X	X
SP-3	50225468002	1	05/21/2019	23:45	X	X	X	X	X	X	X	X	X	X	X	X
SP-4	50225468003	1	05/21/2019	23:47	X	X	X	X	X	X	X	X	X	X	X	X
SP-5	50225468004	1	05/21/2019	23:50	X	X	X	X	X	X	X	X	X	X	X	X
SP-5 DUP	50225468005	1	05/21/2019	23:52	X	X	X	X	X	X	X	X	X	X	X	X
15092709CCV	15092709CCV	1	05/22/2019	00:04	X	X	X	X	X	X	X	X	X	X	X	X
15092710CCB	15092710CCB	1	05/22/2019	00:06	X	X	X	X	X	X	X	X	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 05/24/2019 20:01 End Date: 05/24/2019 23:19

Sample Name	Lab Sample ID	D/F	Date	Time	Ag	As	Ba	Be	Cd	Cr	Cu	Ni	Pb	Sb	Se	Zn
15126448CAL0	15126448CAL0	1	05/24/2019	20:01	X	X	X	X	X	X	X	X	X	X	X	X
15126449CAL1	15126449CAL1	1	05/24/2019	20:04				X	X				X		X	X
15126450CAL2	15126450CAL2	1	05/24/2019	20:07			X				X					
15126451CAL3	15126451CAL3	1	05/24/2019	20:09		X										
15126452CAL4	15126452CAL4	1	05/24/2019	20:11						X		X				
15126453CAL5	15126453CAL5	1	05/24/2019	20:13										X		
15126455CAL7	15126455CAL7	1	05/24/2019	20:18	X											
15126456ICB	15126456ICB	1	05/24/2019	20:22	X	X	X	X	X	X	X	X	X	X	X	X
15126457CRDL	15126457CRDL	1	05/24/2019	20:24	X	X	X	X	X	X	X	X	X	X	X	X
15126458ICSA	15126458ICSA	1	05/24/2019	20:27	X	X	X	X	X	X	X	X	X	X	X	X
15126459ICSAB	15126459ICSAB	1	05/24/2019	20:29	X	X	X	X	X	X	X	X	X	X	X	X
15126460ICV	15126460ICV	1	05/24/2019	20:42	X	X	X	X	X	X	X	X	X	X	X	X
15126461CCV	15126461CCV	1	05/24/2019	20:51	X	X	X	X	X	X	X	X	X	X	X	X
15126462CCB	15126462CCB	1	05/24/2019	20:53	X	X	X	X	X	X	X	X	X	X	X	X
15126470CCV	15126470CCV	1	05/24/2019	22:26	X	X	X	X	X	X	X	X	X	X	X	X
15126471CCB	15126471CCB	1	05/24/2019	22:28	X	X	X	X	X	X	X	X	X	X	X	X
2316804BLANK	2316804	1	05/24/2019	22:35	X	X	X	X	X	X	X	X	X	X	X	X
2316805LCS	2316805	1	05/24/2019	22:37	X	X	X	X	X	X	X	X	X	X	X	X
50225740008	50225740008	1	05/24/2019	22:38	X	X	X		X	X			X		X	
2316806MS	2316806	1	05/24/2019	22:41	X	X	X	X	X	X	X	X	X	X	X	X
2316807MSD	2316807	1	05/24/2019	22:43	X	X	X	X	X	X	X	X	X	X	X	X
2319685PDS	2319685	1	05/24/2019	22:45	X	X	X	X	X	X	X	X	X	X	X	X
2319686SD	2319686	1	05/24/2019	22:47	X	X	X	X	X	X	X	X	X	X	X	X
15126472CCV	15126472CCV	1	05/24/2019	22:52	X	X	X	X	X	X	X	X	X	X	X	X
15126473CCB	15126473CCB	1	05/24/2019	22:53	X	X	X	X	X	X	X	X	X	X	X	X
EQ Blank	50225468006	1	05/24/2019	22:58	X	X	X	X	X	X	X	X	X	X	X	X
15126474CCV	15126474CCV	1	05/24/2019	23:17	X	X	X	X	X	X	X	X	X	X	X	X
15126475CCB	15126475CCB	1	05/24/2019	23:19	X	X	X	X	X	X	X	X	X	X	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 06/10/2019 08:19 End Date: 06/10/2019 14:36

Sample Name	Lab Sample ID	D/F	Date	Time	As	Pb
15219287CAL0	15219287CAL0	1	06/10/2019	08:19	X	X
15219288CAL1	15219288CAL1	1	06/10/2019	08:21		X
15219290CAL3	15219290CAL3	1	06/10/2019	08:26	X	
15219295ICV	15219295ICV	1	06/10/2019	08:37	X	X
15219296ICB	15219296ICB	1	06/10/2019	08:39	X	X
15219298CRDL	15219298CRDL	1	06/10/2019	08:41	X	X
15219299ICSA	15219299ICSA	1	06/10/2019	08:43	X	X
15219300ICSAB	15219300ICSAB	1	06/10/2019	08:46	X	X
15219303CCV	15219303CCV	1	06/10/2019	09:10	X	X
15219304CCB	15219304CCB	1	06/10/2019	09:12	X	X
15223927CCV	15223927CCV	1	06/10/2019	13:23	X	X
15223928CCB	15223928CCB	1	06/10/2019	13:25	X	X
2331107LCS	2331107	1	06/10/2019	13:42	X	X
SP-4 FIELD FILTERED	50225468008	1	06/10/2019	13:44	X	X
SP-5 FIELD FILTERED	50225468009	1	06/10/2019	13:46	X	
15223929CCV	15223929CCV	1	06/10/2019	13:51	X	X
15223930CCB	15223930CCB	1	06/10/2019	13:52	X	X
50227311002	50227311002	1	06/10/2019	13:59	X	X
2332468PDS	2332468	1	06/10/2019	14:01	X	X
15223931CCV	15223931CCV	1	06/10/2019	14:07	X	X
15223932CCB	15223932CCB	1	06/10/2019	14:08	X	X
2332469SD	2332469	1	06/10/2019	14:11	X	X
2332014MS	2332014	1	06/10/2019	14:13	X	X
2332015MSD	2332015	1	06/10/2019	14:15	X	X
15219720CCV	15219720CCV	1	06/10/2019	14:34	X	X
15223933CCV	15223933CCV	1	06/10/2019	14:34	X	X
15219721CCB	15219721CCB	1	06/10/2019	14:36	X	X
15223934CCB	15223934CCB	1	06/10/2019	14:36	X	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 06/11/2019 08:38 End Date: 06/11/2019 10:55

Sample Name	Lab Sample ID	D/F	Date	Time	As	Pb
15224303CAL0	15224303CAL0	1	06/11/2019	08:38	X	X
15224304CAL1	15224304CAL1	1	06/11/2019	08:40		X
15224306CAL3	15224306CAL3	1	06/11/2019	08:45	X	
15224311ICV	15224311ICV	1	06/11/2019	08:56	X	X
15224312ICB	15224312ICB	1	06/11/2019	08:58	X	X
15224313CRDL	15224313CRDL	1	06/11/2019	09:00	X	X
15224314ICSA	15224314ICSA	1	06/11/2019	09:02	X	X
15224315ICSAB	15224315ICSAB	1	06/11/2019	09:05	X	X
15224316CCV	15224316CCV	1	06/11/2019	09:29	X	X
15224317CCB	15224317CCB	1	06/11/2019	09:31	X	X
15224323CCV	15224323CCV	1	06/11/2019	10:26	X	X
15224324CCB	15224324CCB	1	06/11/2019	10:28	X	X
2331106BLANK	2331106	1	06/11/2019	10:35	X	X
15224328CCV	15224328CCV	1	06/11/2019	10:53	X	X
15224329CCB	15224329CCB	1	06/11/2019	10:55	X	X

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Start Date: 05/21/2019 20:33 End Date: 05/22/2019 00:06

Sample Name	Time	Y1	Y2	Y3
15092684CAL0	20:33	100.0	100.0	100.0
15092685CAL1	20:36	100.1	99.4	97.5
15092686CAL2	20:39	100.0	99.4	98.2
15092687CAL3	20:41	101.8	101.3	
15092688CAL4	20:43	98.9	97.2	97.4
15092689CAL5	20:45	100.6	100.1	
15092690CAL6	20:48	99.6	98.2	99.0
15092691CAL7	20:50	98.9		
15092692ICV	20:52	99.3	98.2	98.4
15092693ICB	20:54	100.4	99.9	97.2
15092694CRDL	20:57	100.7	101.0	98.1
15092695ICSA	20:59	87.8	85.3	93.5
15092696ICSAB	21:01	87.6	85.1	92.9
15092697CCV	21:32	99.7	99.9	101.3
15092698CCB	21:34	100.0	101.3	99.5
15092701CCV	22:39	99.7	99.5	100.7
15092702CCB	22:41	101.1	101.7	99.7
15092703ICSA	23:03	88.2	87.1	95.8
15092704ICSAB	23:06	88.1	87.2	96.6
15092705CCV	23:08	99.9	100.5	100.6
15092706CCB	23:10	100.8	102.7	100.2
15092707CCV	23:36	100.6	100.8	100.6
15092708CCB	23:38	101.4	103.2	100.3
15092709CCV	00:04	100.0	101.0	100.8
15092710CCB	00:06	101.1	103.4	101.4

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Start Date: 05/24/2019 20:01 End Date: 05/24/2019 23:19

Sample Name	Time	Y1	Y2	Y3
15126448CAL0	20:01	100.0	100.0	100.0
15126449CAL1	20:04	102.9	103.7	104.5
15126450CAL2	20:07	102.1	102.0	103.6
15126451CAL3	20:09	105.2	105.8	
15126452CAL4	20:11	102.2	101.3	102.9
15126453CAL5	20:13	103.8	104.4	
15126454CAL6	20:16	102.4	103.0	105.7
15126455CAL7	20:18	102.5		
15126456ICB	20:22	103.7	104.5	105.0
15126457CRDL	20:24	105.2	105.6	105.8
15126458ICSA	20:27	93.9	90.5	101.9
15126459ICSAB	20:29	93.4	90.4	102.1
15126460ICV	20:42	101.5	100.4	102.7
15126461CCV	20:51	103.4	102.9	106.4
15126462CCB	20:53	104.0	105.2	104.8
15126470CCV	22:26	105.7	104.7	106.6
15126471CCB	22:28	105.0	105.2	104.8
15126472CCV	22:52	106.5	105.7	106.9
15126473CCB	22:53	106.6	107.5	106.8
15126474CCV	23:17	104.4	104.6	105.6
15126475CCB	23:19	104.3	103.6	101.8

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Start Date: 06/10/2019 08:19 End Date: 06/10/2019 14:36

Sample Name	Time	Y1	Y2	Y3
15219287CAL0	08:19	100.0	100.0	100.0
15219288CAL1	08:21	101.9	100.7	100.3
15219289CAL2	08:24	101.4	100.1	99.5
15219290CAL3	08:26	102.7	101.4	
15219291CAL4	08:28	100.3	98.7	99.0
15219292CAL5	08:30	107.3	105.4	
15219293CAL6	08:32	100.1	99.7	99.4
15219294CAL7	08:35	99.1		
15219295ICV	08:37	100.4	99.2	100.2
15219296ICB	08:39	101.1	101.0	99.7
15219298CRDL	08:41	101.8	102.7	100.8
15219299ICSA	08:43	89.8	87.1	96.8
15219300ICSAB	08:46	88.6	86.2	95.5
15219303CCV	09:10	101.2	99.9	99.8
15219304CCB	09:12	102.1	102.6	101.5
15223927CCV	13:23	101.4	96.8	93.4
15223928CCB	13:25	102.0	97.9	94.2
15223929CCV	13:51	102.0	96.2	94.3
15223930CCB	13:52	102.0	97.9	94.9
15223931CCV	14:07	100.5	94.7	96.0
15223932CCB	14:08	101.7	97.7	93.7
15219720CCV	14:34	99.7	94.7	94.1
15223933CCV	14:34	99.7	94.7	94.1
15219721CCB	14:36	100.3	95.6	93.2
15223934CCB	14:36	100.3	95.6	93.2

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICP3 Start Date: 06/11/2019 08:38 End Date: 06/11/2019 10:55

Sample Name	Time	Y1	Y2	Y3
15224303CAL0	08:38	100.0	100.0	100.0
15224304CAL1	08:40	100.7	101.1	99.5
15224305CAL2	08:42	101.3	100.6	99.6
15224306CAL3	08:45	103.9	104.2	
15224307CAL4	08:47	101.5	101.6	101.4
15224308CAL5	08:49	103.9	105.2	
15224309CAL6	08:51	102.9	100.9	100.8
15224310CAL7	08:54	99.2		
15224311ICV	08:56	102.4	101.9	103.2
15224312ICB	08:58	102.4	102.0	100.9
15224313CRDL	09:00	103.6	105.1	101.9
15224314ICSA	09:02	89.2	86.8	96.4
15224315ICSAB	09:05	89.9	87.2	96.7
15224316CCV	09:29	103.3	100.3	100.8
15224317CCB	09:31	105.7	104.0	101.7
15224323CCV	10:26	100.0	96.7	96.5
15224324CCB	10:28	100.5	99.6	96.8
15224328CCV	10:53	100.5	97.8	97.3
15224329CCB	10:55	102.7	100.1	100.2

Prep Log Report

Batch Information: MPRP 35817

Template Version: EF-IN-I-317(rev.00, 30Nov2011)

Prep Method	EPA 3010	Analysis Method	EPA 6010	Extracted By	cel	Extracted Date/Time	05/21/2019 13:28:46:303
Block ID	5	Block Temp (C)	95	Correction Factor (C)	0	Corrected Temp. (C)	95
Thermometer ID	pt187	Digestion Vessel Lot	204633	Batch Notes	p/b phb 052119	Reviewed By	JPK
Reviewed By Date	05/22/2019 06:09						

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	BLANK	**2313609**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	LCS	**2313610**	Water	25	200224 (1.25)	206319 (1)	25		209405 (0.5)
6010 W_P	RQS	**50225400001**	Water	50	200224 (2.5)	206319 (2)	50	sediment	
6010 W_P	MS	**2313611**	Water	25	200224 (1.25)	206319 (1)	25	sediment	209405 (0.5)
6010 W_P	MSD	**2313612**	Water	25	200224 (1.25)	206319 (1)	25	sediment	209405 (0.5)
6010 W_P	PS	**50225400002**	Water	50	200224 (2.5)	206319 (2)	50	sediment	
6010 W_P	PS	**50225400003**	Water	50	200224 (2.5)	206319 (2)	50	sediment	
6010 W_P	PS	**50225400004**	Water	50	200224 (2.5)	206319 (2)	50	sediment	
6010 W_P	PS	**50225442021**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442022**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442023**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442024**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442025**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442026**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225442027**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	RQS	**50225468001**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	MS	**2313613**	Water	25	200224 (1.25)	206319 (1)	25		209405 (0.5)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	MSD	**2313614**	Water	25	200224 (1.25)	206319 (1)	25		209405 (0.5)
6010 W_P	PS	**50225468002**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225468003**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225468004**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50225468005**	Water	50	200224 (2.5)	206319 (2)	50		

Standard Notes:

209405: ICP-SPK

Prep Log Report

Batch Information: MPRP 35873

Template Version: EF-IN-I-317(rev.00, 30Nov2011)

Prep Method	EPA 3010	Analysis Method	EPA 6010	Extracted By	cel	Extracted Date/Time	05/24/2019 13:15:01:723
Block ID	5	Block Temp (C)	95	Correction Factor (C)	0	Corrected Temp. (C)	95
Thermometer ID	pt187	Digestion Vessel Lot	204633	Batch Notes		Reviewed By	JPK
Reviewed By Date	05/25/2019 04:55						

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	BLANK	**2316804**	Water	50	200224 (2.5)	206319 (2)	50	3*	
6010 W_P	LCS	**2316805**	Water	25	200224 (1.25)	206319 (1)	25	3*	209416 (0.5)
6010 W_P	PS	**50225740008**	Water	10	200224 (2.5)	206319 (2)	50	3*	
6010 W_P	MS	**2316806**	Water	5	200224 (1.25)	206319 (1)	25	3*	209416 (0.5)
6010 W_P	MSD	**2316807**	Water	5	200224 (1.25)	206319 (1)	25	3*	209416 (0.5)
6010 W_P	PS	**50225740009**	Water	10	200224 (2.5)	206319 (2)	50	5*	
6010 W_P	PS	**50225740010**	Water	10	200224 (2.5)	206319 (2)	50	5*	
6010 W_P	PS	**50225468006**	Water	50	200224 (2.5)	206319 (2)	50		
6010 W_P	PS	**50224840001**	Water	0.5	200224 (2.5)	206319 (2)	50	utp	
6010 W_P	PS	**50224843001**	Water	0.5	200224 (2.5)	206319 (2)	50	utp	
6010 W_P	PS	**50225824001**	Water	0.5	200224 (2.5)	206319 (2)	50	4*	
6010 W_P	PS	**50225826001**	Water	0.5	200224 (2.5)	206319 (2)	50	4*	
6010 W_P	PS	**50225827001**	Water	0.5	200224 (2.5)	206319 (2)	50	2*	
6010 W_P	PS	**50225829001**	Water	0.5	200224 (2.5)	206319 (2)	50	1*	
6010 W_P	PS	**50225833001**	Water	0.5	200224 (2.5)	206319 (2)	50	utp	
6010 W_P	PS	**50225837001**	Water	0.5	200224 (2.5)	206319 (2)	50	4*	
6010 W_P	PS	**50225839001**	Water	0.5	200224 (2.5)	206319 (2)	50	4*	

Prep Log Report

Sample Notes:

1*: pur 022319 07:25

2*: pur 0502319 07:35

3*: pur 052219 14:05 sediment

4*: pur 052319 07:35

5*: utp sediment

Standard Notes:

209416: ICP-SPK

Prep Log Report

Batch Information: MPRP 36174

Template Version: EF-IN-I-317(rev.00, 30Nov2011)

Prep Method	EPA 3010	Analysis Method	EPA 6010	Extracted By	phb	Extracted Date/Time	06/10/2019 06:21:25:799
Block ID	9	Block Temp (C)	94	Correction Factor (C)	0	Corrected Temp. (C)	94.0
Thermometer ID	PT-258	Digestion Vessel Lot	211320/211570 filtermate	Batch Notes		Reviewed By	RAM
Reviewed By Date	06/10/2019 13:14						

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6010-SPK (mL)
6010 W_P	BLANK	**2331106**	Water	50	200224 (2.5)	209941 (2)	50		
6010 W_P	LCS	**2331107**	Water	25	200224 (1.25)	209941 (1)	25		210984 (0.5)
6010 W_P	PS	**50225468008**	Water	50	200224 (2.5)	209941 (2)	50		
6010 W_P	PS	**50225468009**	Water	50	200224 (2.5)	209941 (2)	50		
6010 W_P	PS	**50227282007**	Water	50	200224 (2.5)	209941 (2)	50		
6010 W_P	PS	**50227282008**	Water	50	200224 (2.5)	209941 (2)	50		
6010 W_P	PS	**50227311001**	Water	50	200224 (2.5)	209941 (2)	50	utp	
6010 W_P	PS	**50227311002**	Water	50	200224 (2.5)	209941 (2)	50	utp	
6010 W_P	MS	**2332014**	Water	25	200224 (1.25)	209941 (1)	25	utp	210984 (0.5)
6010 W_P	MSD	**2332015**	Water	25	200224 (1.25)	209941 (1)	25	utp	210984 (0.5)
6010 W_P	PS	**50227311005**	Water	50	200224 (2.5)	209941 (2)	50	utp	
6010 W_P	PS	**50227311006**	Water	50	200224 (2.5)	209941 (2)	50	utp	
6010 W_P	PS	**50226414001**	Water	50	200224 (2.5)	209941 (2)	50	1*	
6010 W_P	PS	**50227158001**	Water	0.5	200224 (2.5)	209941 (2)	50	2*	
6010 W_P	PS	**50227298001**	Water	0.5	200224 (2.5)	209941 (2)	50	2*	
6010 W_P	PS	**50227301001**	Water	0.5	200224 (2.5)	209941 (2)	50	2*	
6010 W_P	PS	**50227305001**	Water	0.5	200224 (2.5)	209941 (2)	50	utp	

Prep Log Report

Sample Notes:

1*: pur 060619 08:20

2*: pur 060719 17:50

Standard Notes:

210984: ICP-SPK

SAMPLE NO.

SP-1

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146
Lab Sample ID: 50225468001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	<0.040	U	ug/L	1	06/01/2019 12:02

SAMPLE NO.

SP-3

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146
Lab Sample ID: 50225468002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	0.18	J	ug/L	1	06/01/2019 14:17

SAMPLE NO.

SP-4

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	0.22	J	ug/L	1	06/01/2019 14:22

SAMPLE NO.

SP-5

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146
Lab Sample ID: 50225468004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	<0.040	U	ug/L	1	06/01/2019 14:26

SAMPLE NO.

SP-5 DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	<0.040	U	ug/L	1	06/01/2019 14:31

SAMPLE NO.

EQ Blank

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-28-0	Thallium	<0.040	U	ug/L	1	06/01/2019 14:45

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210189

Continuing Calibration Verification Source: 210187

Concentration Units: ug/L Instrument ID: 50ICM2

	Initial Calibration Verification				Continuing Calibration Verification						
	06/01/2019 10:44				06/01/2019 11:07			06/01/2019 11:39			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Thallium	50	50.1	100.2	90-110	20	19.1	95.6	20	18.9	94.5	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210187

Concentration Units: ug/L Instrument ID: 50ICM2

	Continuing Calibration Verification			
	06/01/2019 12:24			Control Limit
Analyte	True	Found	%R	
Thallium	20	19.0	95.0	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210189

Continuing Calibration Verification Source: 210187

Concentration Units: ug/L Instrument ID: 50ICM2

	Initial Calibration Verification				Continuing Calibration Verification						
	06/01/2019 13:45				06/01/2019 14:08			06/01/2019 14:36			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Thallium	50	49.9	99.9	90-110	20	19.1	95.6	20	19.3	96.3	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210187

Concentration Units: ug/L Instrument ID: 50ICM2

	Continuing Calibration Verification			
	06/01/2019 15:03			Control Limit
Analyte	True	Found	%R	
Thallium	20	19.3	96.7	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210190 Analysis Date/Time: 06/01/2019 10:53

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Thallium	1.0	0.94	94.5	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210190 Analysis Date/Time: 06/01/2019 11:48

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Thallium	1.0	0.93	93.0	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210190 Analysis Date/Time: 06/01/2019 13:54

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Thallium	1.0	0.93	93.3	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50ICM2

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	06/01/2019 10:48	C	06/01/2019 11:11	C	06/01/2019 11:43	C	06/01/2019 12:29	C	2321049	C
Thallium	0.50	U	0.50	U	0.50	U	0.50	U	<0.040	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50ICM2

Method Blank Concentration Units:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)					
	06/01/2019 13:49	C	06/01/2019 14:13	C	06/01/2019 14:40	C	06/01/2019 15:08	C
Thallium	0.50	U	0.50	U	0.50	U	0.50	U

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Solution A Run Date: 06/01/2019 10:57

ICS Source: 210191,210192 Solution AB Run Date: 06/01/2019 11:02

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	20000	20800	18787.207	93.9	18994.972	91.3	80-120
Molybdenum	400	408	397.207	99.3	400.041	98	80-120
Thallium		8	0.003		7.875	98.4	80-120
Titanium	400	408	432.948	108.2	446.27	109.4	80-120

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Solution A Run Date: 06/01/2019 13:59

ICS Source: 210191,210192 Solution AB Run Date: 06/01/2019 14:03

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	20000	20800	19111.988	95.6	19171.277	92.2	80-120
Molybdenum	400	408	394.665	98.7	399.096	97.8	80-120
Thallium		8	0.003		7.903	98.8	80-120
Titanium	400	408	443.314	110.8	450.747	110.5	80-120

SAMPLE NO.

2321051MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Thallium	ug/L	75-125	40.5	<0.040	40.0	101

SAMPLE NO.

2321052MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Thallium	ug/L	75-125	41.5	<0.040	40.0	104

SAMPLE NO.

2323165PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: SP-1

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Thallium	ug/L	75-125	1	19.4	1	0.040U	20	97.2

SAMPLE NO.

2321052MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Thallium	20	40.5	41.5	2

SAMPLE NO.

2321050LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Thallium	ug/L	40.0	40.2	101	80	120

SAMPLE NO.

2323166SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Parent Sample ID: SP-1

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Thallium	ug/L	0.040U	0.20U		10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Instrument ID: 50ICM2 Effective Date:12/05/2014

Analyte	Concentration (ug/L)
Thallium	200

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 200.2 Batch: MPRP 35982

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2321049	2321049BLANK	05/30/2019	50	50
2321050	2321050LCS	05/30/2019	50	50
2321051	2321051MS	05/30/2019	50	50
2321052	2321052MSD	05/30/2019	50	50
50225468001	SP-1	05/30/2019	50	50
50225468002	SP-3	05/30/2019	50	50
50225468003	SP-4	05/30/2019	50	50
50225468004	SP-5	05/30/2019	50	50
50225468005	SP-5 DUP	05/30/2019	50	50
50225468006	EQ Blank	05/30/2019	50	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Analysis Method: EPA 6020

Start Date: 06/01/2019 10:21 End Date: 06/01/2019 12:29

Sample Name	Lab Sample ID	D/F	Date	Time	TI
15168265CAL0	15168265CAL0	1	06/01/2019	10:21	X
15168266CAL1	15168266CAL1	1	06/01/2019	10:26	X
15168267CAL2	15168267CAL2	1	06/01/2019	10:30	X
15168268CAL3	15168268CAL3	1	06/01/2019	10:35	X
15168269ICV	15168269ICV	1	06/01/2019	10:44	X
15168270ICB	15168270ICB	1	06/01/2019	10:48	X
15168271CRDL	15168271CRDL	1	06/01/2019	10:53	X
15168272ICSA	15168272ICSA	1	06/01/2019	10:57	X
15168273ICSAB	15168273ICSAB	1	06/01/2019	11:02	X
15168274CCV	15168274CCV	1	06/01/2019	11:07	X
15168275CCB	15168275CCB	1	06/01/2019	11:11	X
15168276CCV	15168276CCV	1	06/01/2019	11:39	X
15168277CCB	15168277CCB	1	06/01/2019	11:43	X
15168278CRDL	15168278CRDL	1	06/01/2019	11:48	X
2321049BLANK	2321049	1	06/01/2019	11:52	X
2321050LCS	2321050	1	06/01/2019	11:57	X
SP-1	50225468001	1	06/01/2019	12:02	X
2321051MS	2321051	1	06/01/2019	12:06	X
2321052MSD	2321052	1	06/01/2019	12:11	X
2323165PDS	2323165	1	06/01/2019	12:15	X
2323166SD	2323166	1	06/01/2019	12:20	X
15168279CCV	15168279CCV	1	06/01/2019	12:24	X
15168280CCB	15168280CCB	1	06/01/2019	12:29	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Analysis Method: EPA 6020

Start Date: 06/01/2019 13:22 End Date: 06/01/2019 15:08

Sample Name	Lab Sample ID	D/F	Date	Time	TI
15168281CAL0	15168281CAL0	1	06/01/2019	13:22	X
15168282CAL1	15168282CAL1	1	06/01/2019	13:27	X
15168283CAL2	15168283CAL2	1	06/01/2019	13:31	X
15168284CAL3	15168284CAL3	1	06/01/2019	13:36	X
15168285ICV	15168285ICV	1	06/01/2019	13:45	X
15168286ICB	15168286ICB	1	06/01/2019	13:49	X
15168287CRDL	15168287CRDL	1	06/01/2019	13:54	X
15168288ICSA	15168288ICSA	1	06/01/2019	13:59	X
15168289ICSAB	15168289ICSAB	1	06/01/2019	14:03	X
15168290CCV	15168290CCV	1	06/01/2019	14:08	X
15168291CCB	15168291CCB	1	06/01/2019	14:13	X
SP-3	50225468002	1	06/01/2019	14:17	X
SP-4	50225468003	1	06/01/2019	14:22	X
SP-5	50225468004	1	06/01/2019	14:26	X
SP-5 DUP	50225468005	1	06/01/2019	14:31	X
15168292CCV	15168292CCV	1	06/01/2019	14:36	X
15168293CCB	15168293CCB	1	06/01/2019	14:40	X
EQ Blank	50225468006	1	06/01/2019	14:45	X
15168294CCV	15168294CCV	1	06/01/2019	15:03	X
15168295CCB	15168295CCB	1	06/01/2019	15:08	X

US EPA Tune Check Sample Report
ICPM2

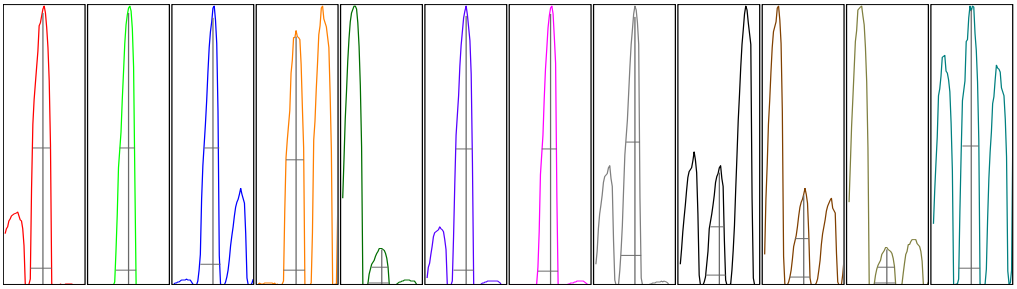
Batch Folder C:\Agilent\ICPMH\1\DATA\060119.b
Report Comment
Instrument Name G3281A JP10420651

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	15092	1.02	5.00	
89	56989	0.61	5.00	
205	38597	0.60	5.00	
9	3788	1.93	5.00	
24	28407	0.56	5.00	
59	37843	0.76	5.00	
115	53305	0.19	5.00	
208	27597	0.88	5.00	
207	12064	0.82	5.00	
206	12705	1.18	5.00	
25	3765	2.63	5.00	
26	4821	0.67	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
7	14990	15012	15019	15360	15079
89	57117	56381	57210	57034	57204
205	38361	38902	38661	38696	38365
9	3793	3877	3739	3836	3695
24	28588	28160	28442	28473	28374
59	38009	37981	38124	37427	37671
115	53359	53448	53265	53182	53273
208	27276	27440	27899	27673	27698
207	11999	12083	11956	12215	12068
206	12735	12518	12582	12840	12850
25	3625	3886	3741	3744	3827
26	4821	4769	4848	4848	4822

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
7	2446	6.95	6.9 - 7.1		0.789	0.900	
89	10493	89.00	88.9 - 89.1		0.773	0.900	
205	7306	205.00	204.9 - 205.1		0.747	0.900	
9	632	8.95	8.9 - 9.1		0.787	0.900	
24	4833	24.00	23.9 - 24.1		0.787	0.900	
59	6522	59.00	58.9 - 59.1		0.781	0.900	
115	10016	115.00	114.9 - 115.1		0.754	0.900	
208	5339	208.00	207.9 - 208.1		0.747	0.900	
207	2235	207.00	206.9 - 207.1		0.738	0.900	
206	2441	206.00	205.9 - 206.1		0.746	0.900	
25	636	24.95	24.9 - 25.1		0.787	0.900	
26	801	25.95	25.9 - 26.1		0.787	0.900	

US EPA Tune Check Sample Report
ICPM2

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 307.4 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1550	W	Carrier Gas	0.80	L/min	S/C Temp	2	℃
RF Matching	1.40	V	Option Gas	0.0	%	Makeup/Dilution Gas	0.30	L/min
Smpl Depth	10.0	mm	Nebulizer Pump	0.10	rps	Gas Switch	Dilution Gas	

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.6	V	Deflect	17.0	V
Extract 2	-200.0	V	Cell Entrance	-34	V	Plate Bias	-50	V
Omega Bias	-95	V	Cell Exit	-58	V			

Cell Parameters

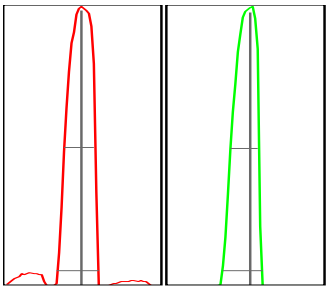
ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
OctP Bias	-8.0	V	He Flow	0.0	mL/min	Energy Discrimination	5.0	V
OctP RF	200	V	H2 Flow	0.0	mL/min			
Use Gas	false		3rd Gas Flow	0	%			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	15563	1.00	5.00
89	15975	0.84	5.00

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	15374	15702	15734	15557	15450
89	15826	15886	16179	15999	15983

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	W-X% (Flag)
59	2779	59.000	58.9 - 59.1		0.771	0.900	
89	3100	89.050	88.9 - 89.1		0.753	0.900	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 73.8 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1550	W	Carrier Gas	0.80	L/min	S/C Temp	2	℃
RF Matching	1.40	V	Option Gas	0.0	%	Makeup/Dilution Gas	0.30	L/min
Smpl Depth	10.0	mm	Nebulizer Pump	0.10	rps	Gas Switch	Dilution Gas	

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.6	V	Deflect	3.4	V
Extract 2	-200.0	V	Cell Entrance	-40	V	Plate Bias	-60	V

Omega Bias	-95 V	Cell Exit	-70 V

US EPA Tune Check Sample Report
ICPM2

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
OctP Bias	-17.0	V	He Flow	3.0	mL/min	Energy Discrimination	5.0	V
OctP RF	200	V	H2 Flow	0.0	mL/min			
Use Gas	true		3rd Gas Flow	0	%			

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Start Date: 06/01/2019 10:21 End Date: 06/01/2019 12:29

Sample Name	Time	Bi-209	In-115	Li-6	Sc-45-IS	Tb-159	Y-89
15168265CAL0	10:21	100.0	100.0	100.0	100.0	100.0	100.0
15168266CAL1	10:26	100.0	99.9	99.6	102.3	101.4	101.2
15168267CAL2	10:30	99.4	99.0	99.3	99.3	100.5	99.6
15168268CAL3	10:35	99.0	98.1	100.9	96.6	99.9	97.2
15168269ICV	10:44	97.7	97.3	97.3	98.1	99.2	97.8
15168270ICB	10:48	99.6	98.7	97.6	98.5	100.0	99.5
15168271CRDL	10:53	98.5	98.8	97.6	98.3	99.8	98.3
15168272ICSA	10:57	92.9	94.1	91.2	96.8	97.1	97.3
15168273ICSAB	11:02	93.9	96.1	87.1	96.7	99.1	98.7
15168274CCV	11:07	100.0	99.5	90.4	98.3	101.4	99.7
15168275CCB	11:11	100.1	99.4	91.2	98.2	100.9	99.0
15168276CCV	11:39	104.3	101.8	89.6	93.6	104.4	96.4
15168277CCB	11:43	100.8	98.2	93.9	94.5	101.4	98.0
15168278CRDL	11:48	103.4	101.3	97.9	95.1	103.8	98.1
2321049BLANK	11:52	97.6	96.0	91.6	94.1	98.7	96.9
2321050LCS	11:57	96.5	94.7	90.9	90.8	97.5	94.6
SP-1	12:02	82.1	86.0	80.9	91.2	90.3	91.7
2321051MS	12:06	82.7	86.8	83.9	92.3	91.4	92.7
2321052MSD	12:11	81.1	86.0	82.7	92.1	90.6	91.9
2323165PDS	12:15	83.5	88.4	82.9	91.6	92.7	92.9
2323166SD	12:20	94.0	94.9	89.6	95.3	98.4	96.3
15168279CCV	12:24	101.2	100.7	95.8	98.1	102.0	98.4
15168280CCB	12:29	100.1	99.3	96.2	97.5	101.0	97.7

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50ICM2 Start Date: 06/01/2019 13:22 End Date: 06/01/2019 15:08

Sample Name	Time	Bi-209	In-115	Li-6	Sc-45-IS	Tb-159	Y-89
15168281CAL0	13:22	100.0	100.0	100.0	100.0	100.0	100.0
15168282CAL1	13:27	98.3	98.4	99.1	100.1	98.9	101.1
15168283CAL2	13:31	97.7	98.7	99.4	98.3	99.3	100.6
15168284CAL3	13:36	98.2	97.8	100.9	97.9	98.9	98.9
15168285ICV	13:45	98.2	98.5	98.8	98.7	99.2	97.9
15168286ICB	13:49	98.3	98.4	97.6	99.0	98.9	99.6
15168287CRDL	13:54	98.3	98.9	97.4	99.1	99.1	99.3
15168288ICSA	13:59	92.1	93.7	90.2	95.9	96.8	96.9
15168289ICSAB	14:03	93.6	95.5	86.3	96.1	97.7	98.3
15168290CCV	14:08	99.4	99.6	90.6	98.0	99.7	100.6
15168291CCB	14:13	100.7	100.3	90.6	97.9	100.0	99.6
SP-3	14:17	85.6	90.4	78.8	98.0	95.4	125.8
SP-4	14:22	86.8	89.9	78.7	103.9	95.3	118.0
SP-5	14:26	85.1	89.4	79.0	91.9	94.1	97.0
SP-5 DUP	14:31	85.9	89.0	81.2	91.8	93.6	97.3
15168292CCV	14:36	97.3	98.5	93.8	98.7	98.4	101.1
15168293CCB	14:40	96.9	98.4	92.6	99.0	98.3	99.6
EQ Blank	14:45	96.0	95.7	88.4	94.2	96.6	97.0
15168294CCV	15:03	97.4	96.4	90.6	94.9	97.5	97.2
15168295CCB	15:08	96.6	95.5	93.2	97.3	96.7	99.9

Prep Log Report

Batch Information: MPRP 35982

Template Version: EF-IN-I-317(rev.00, 30Nov2011)

Prep Method	EPA 200.2	Analysis Method	EPA 6020	Extracted By	JDG	Extracted Date/Time	05/30/2019 08:09:00
Block ID	G	Block Temp (C)	94	Correction Factor (C)	0	Corrected Temp. (C)	94
Thermometer ID	PT-259	Digestion Vessel Lot	204633	Batch Notes	Pre-digested cups used	Reviewed By	CAW
Reviewed By Date	05/30/2019 16:26						

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6020-SPK (mL)	6020-SPK2 (mL)
6020 W_P	BLANK	**2321049**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	LCS	**2321050**	Water	50	200224 (0.5)	206319 (0.25)	50		209455 (1)	209456 (1)
6020 W_P	RQS	**50225468001**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	MS	**2321051**	Water	50	200224 (0.5)	206319 (0.25)	50		209455 (1)	209456 (1)
6020 W_P	MSD	**2321052**	Water	50	200224 (0.5)	206319 (0.25)	50		209455 (1)	209456 (1)
6020 W_P	PS	**50225468002**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225468003**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225468004**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225468005**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225468006**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225473001**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225473006**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225508001**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225508002**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225508003**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225508004**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225508005**	Water	50	200224 (0.5)	206319 (0.25)	50			

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	Conc. HCL (mL)	Final Volume (mL)	Sample Notes	6020-SPK (mL)	6020-SPK2 (mL)
6020 W_P	PS	**50225508006**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574001**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574002**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574003**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574004**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574005**	Water	50	200224 (0.5)	206319 (0.25)	50			
6020 W_P	PS	**50225574006**	Water	50	200224 (0.5)	206319 (0.25)	50			

Standard Notes:

209455: ICP-MS STK Spike#1 for MS/MSD, LCS, **209456: ICP-MS STK Spike#2 for MS/MSD, LCS,**

SAMPLE NO.

SP-1

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/28/2019 19:45

SAMPLE NO.

SP-3

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146
Lab Sample ID: 50225468002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/28/2019 19:58

SAMPLE NO.

SP-4

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/28/2019 20:00

SAMPLE NO.

SP-5

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/28/2019 20:02

SAMPLE NO.

SP-5 DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/28/2019 20:04

SAMPLE NO.

EQ Blank

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Lab Sample ID: 50225468006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7439-97-6	Mercury	<0.069	U	ug/L	1	05/24/2019 09:28

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210111

Continuing Calibration Verification Source: 210108

Concentration Units: ug/L Instrument ID: 50HG03

	Initial Calibration Verification				Continuing Calibration Verification						
	05/24/2019 07:57				05/24/2019 08:25			05/24/2019 09:18			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	4.8	96.2	90-110	5.0	5.1	102.6	5.0	5.1	101.8	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210108

Concentration Units: ug/L Instrument ID: 50HG03

	Continuing Calibration Verification						
	05/24/2019 09:43			05/24/2019 10:11			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Mercury	5.0	5.2	103.6	5.0	5.2	104.6	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source: 210323

Continuing Calibration Verification Source: 210320

Concentration Units: ug/L Instrument ID: 50HG03

	Initial Calibration Verification				Continuing Calibration Verification						
	05/28/2019 18:58				05/28/2019 19:26			05/28/2019 19:51			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Mercury	5.0	5.1	101.6	90-110	5.0	5.4	108.0	5.0	5.4	107.2	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 210320

Concentration Units: ug/L Instrument ID: 50HG03

	Continuing Calibration Verification			
	05/28/2019 20:19			Control Limit
Analyte	True	Found	%R	
Mercury	5.0	5.4	109.0	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210105 Analysis Date/Time: 05/24/2019 08:01

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.24	120.5	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210105 Analysis Date/Time: 05/24/2019 09:47

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.25	127.0	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210317 Analysis Date/Time: 05/28/2019 19:03

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.14	71.0	50-150

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

CRDL Check Standard Source: 210317 Analysis Date/Time: 05/28/2019 19:55

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Mercury	0.2	0.16	77.5	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50HG03

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/24/2019 07:59	C	05/24/2019 08:27	C	05/24/2019 09:20	C	05/24/2019 09:45	C	2317087	C
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	<0.069	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Instrument ID: 50HG03

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (ug/L)					
		C	05/24/2019 10:13	C		C		C
Mercury			0.20	U				

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract : 216 College / 19-146

Method Blank Matrix: Water Instrument ID: 50HG03

Method Blank Concentration Units: ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	05/28/2019 19:00	C	05/28/2019 19:28	C	05/28/2019 19:53	C	05/28/2019 20:21	C	2315928	C
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	<0.069	U

SAMPLE NO.

2317089MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225773003

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	5.0	ND	5.0	97

SAMPLE NO.

2317090MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225773003

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	4.9	ND	5.0	95

SAMPLE NO.

2315930MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225442011

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	4.7	ND	5.0	93

SAMPLE NO.

2315931MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: 50225442011

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	4.3	ND	5.0	86

SAMPLE NO.

2315932MS

FORM V INORGANIC-3

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	5.3	<0.069	5.0	105

SAMPLE NO.

2315933MSD

FORM V INORGANIC-4

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Basis: Wet Parent Sample ID: SP-1

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Mercury	ug/L	75-125	5.0	<0.069	5.0	100

SAMPLE NO.

2317090MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	5.0	4.9	2

SAMPLE NO.

2315931MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	4.7	4.3	8

SAMPLE NO.

2315933MSD

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water Concentration Units: ug/L

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Mercury	20	5.3	5.0	5

SAMPLE NO.

2317088LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Mercury	ug/L	5.0	4.8	96	80	120

SAMPLE NO.

2315929LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Mercury	ug/L	5.0	5.2	104	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 7470 Batch: MERP 11820

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2317087	2317087BLANK	05/23/2019	30	30
2317088	2317088LCS	05/23/2019	30	30
2317089	2317089MS	05/23/2019	30	30
2317090	2317090MSD	05/23/2019	30	30
50225468006	EQ Blank	05/23/2019	30	30

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Preparation Method: EPA 7470 Batch: MERP 11818

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2315928	2315928BLANK	05/28/2019	30	30
2315929	2315929LCS	05/28/2019	30	30
2315930	2315930MS	05/28/2019	30	30
2315931	2315931MSD	05/28/2019	30	30
2315932	2315932MS	05/28/2019	30	30
2315933	2315933MSD	05/28/2019	30	30
50225468001	SP-1	05/28/2019	30	30
50225468002	SP-3	05/28/2019	30	30
50225468003	SP-4	05/28/2019	30	30
50225468004	SP-5	05/28/2019	30	30
50225468005	SP-5 DUP	05/28/2019	30	30

FORM XIII INORGANIC-1

ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50HG03 Analysis Method: EPA 7470

Start Date: 05/24/2019 07:42 End Date: 05/24/2019 10:13

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
15119037CAL0	15119037CAL0	1	05/24/2019	07:42	X
15119038CAL1	15119038CAL1	1	05/24/2019	07:44	X
15119039CAL2	15119039CAL2	1	05/24/2019	07:46	X
15119040CAL3	15119040CAL3	1	05/24/2019	07:49	X
15119041CAL4	15119041CAL4	1	05/24/2019	07:51	X
15119042CAL5	15119042CAL5	1	05/24/2019	07:53	X
15119043CAL6	15119043CAL6	1	05/24/2019	07:55	X
15119044ICV	15119044ICV	1	05/24/2019	07:57	X
15119045ICB	15119045ICB	1	05/24/2019	07:59	X
15119046CRDL	15119046CRDL	1	05/24/2019	08:01	X
15119047CCV	15119047CCV	1	05/24/2019	08:25	X
15119048CCB	15119048CCB	1	05/24/2019	08:27	X
15119053CCV	15119053CCV	1	05/24/2019	09:18	X
15119054CCB	15119054CCB	1	05/24/2019	09:20	X
2317087BLANK	2317087	1	05/24/2019	09:22	X
2317088LCS	2317088	1	05/24/2019	09:24	X
EQ Blank	50225468006	1	05/24/2019	09:28	X
50225773003	50225773003	1	05/24/2019	09:39	X
2317089MS	2317089	1	05/24/2019	09:41	X
15119059CCV	15119059CCV	1	05/24/2019	09:43	X
15119060CCB	15119060CCB	1	05/24/2019	09:45	X
15119061CRDL	15119061CRDL	1	05/24/2019	09:47	X
2317090MSD	2317090	1	05/24/2019	09:49	X
15119062CCV	15119062CCV	1	05/24/2019	10:11	X
15119064CCB	15119064CCB	1	05/24/2019	10:13	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50225468 Contract: 216 College / 19-146

Instrument ID: 50HG03 Analysis Method: EPA 7470

Start Date: 05/28/2019 18:43 End Date: 05/28/2019 20:21

Sample Name	Lab Sample ID	D/F	Date	Time	Hg
15136297CAL0	15136297CAL0	1	05/28/2019	18:43	X
15136298CAL1	15136298CAL1	1	05/28/2019	18:45	X
15136299CAL2	15136299CAL2	1	05/28/2019	18:48	X
15136300CAL3	15136300CAL3	1	05/28/2019	18:50	X
15136301CAL4	15136301CAL4	1	05/28/2019	18:52	X
15136302CAL5	15136302CAL5	1	05/28/2019	18:54	X
15136303CAL6	15136303CAL6	1	05/28/2019	18:56	X
15136304ICV	15136304ICV	1	05/28/2019	18:58	X
15136305ICB	15136305ICB	1	05/28/2019	19:00	X
15136306CRDL	15136306CRDL	1	05/28/2019	19:03	X
2315928BLANK	2315928	1	05/28/2019	19:05	X
2315929LCS	2315929	1	05/28/2019	19:07	X
50225442011	50225442011	1	05/28/2019	19:09	X
2315930MS	2315930	1	05/28/2019	19:11	X
2315931MSD	2315931	1	05/28/2019	19:13	X
15136307CCV	15136307CCV	1	05/28/2019	19:26	X
15136308CCB	15136308CCB	1	05/28/2019	19:28	X
SP-1	50225468001	1	05/28/2019	19:45	X
2315932MS	2315932	1	05/28/2019	19:47	X
2315933MSD	2315933	1	05/28/2019	19:49	X
15136309CCV	15136309CCV	1	05/28/2019	19:51	X
15136310CCB	15136310CCB	1	05/28/2019	19:53	X
15136311CRDL	15136311CRDL	1	05/28/2019	19:55	X
SP-3	50225468002	1	05/28/2019	19:58	X
SP-4	50225468003	1	05/28/2019	20:00	X
SP-5	50225468004	1	05/28/2019	20:02	X
SP-5 DUP	50225468005	1	05/28/2019	20:04	X
15136312CCV	15136312CCV	1	05/28/2019	20:19	X
15136313CCB	15136313CCB	1	05/28/2019	20:21	X

Prep Log Report

Batch Information: MERP 11820

Template Version: EF-IN-I-322(rev.01, 21Jan2014)

Prep Method	EPA 7470	Analysis Method	EPA 7470	Extracted By	LBT	Extracted Date/Time	05/23/2019 22:50:06:682
Block ID	D	Thermometer ID	PT-245	Block Temp (C)	96	Correction Factor (C)	-1.0
Corrected Temp. (C)	95.00	Digestion Start Time	05/23/2019 22:50:06:682	Digestion End Time	05/24/2019 00:50:06:682	Digestion Vessel Lot	204633/PT-268
Batch Notes	Final Volume represents Final Sample Volume	Reviewed By	FRW	Reviewed By Date	05/24/2019 06:44		

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7470 W_P	BLANK	**2317087**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	LCS	**2317088**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		209998 (1.5)
7470 W_P	PS	**50225602001**	Water	10	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30	1*	
7470 W_P	PS	**50225468006**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225750001**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225750002**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773001**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773002**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773003**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	MS	**2317089**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		209998 (1.5)
7470 W_P	MSD	**2317090**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		209998 (1.5)
7470 W_P	PS	**50225773004**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773005**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773006**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773007**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773008**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773009**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7470 W_P	PS	**50225773010**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225773011**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225853001**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225853004**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	209715 (2.5)	209861 (1.8)	30		

Sample Notes:

1*: p: 5/22 @ 14:45

Standard Notes:

209998: prepared fresh daily

Prep Log Report

Batch Information: MERC 15031

Template Version: EF-IN-I-322(rev.01, 21Jan2014)

Prep Method		Analysis Method	EPA 7470/7471/245.1	Extracted By	LBT	Extracted Date/Time	05/23/2019 22:50:09:695
Block ID	8	Thermometer ID	PT-245	Block Temp (C)	95	Correction Factor (C)	0
Corrected Temp. (C)	95.00	Digestion Start Time	05/23/2019 22:50:09:695	Digestion End Time	05/24/2019 00:50:09:695	Digestion Vessel Lot	204633 / pt-289
Batch Notes	Final Volume represents Final Sample Volume	Reviewed By		Reviewed By Date			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	CAL-STD
MERC_Q	CAL0	**CAL0**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210104 (1)
MERC_Q	CAL1	**CAL1**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210105 (1)
MERC_Q	CAL2	**CAL2**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210106 (1)
MERC_Q	CAL3	**CAL3**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210107 (1)
MERC_Q	CAL4	**CAL4**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210108 (1)
MERC_Q	CAL5	**CAL5**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210109 (1)
MERC_Q	CAL6	**CAL6**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210110 (1)
MERC_Q	ICV	**ICV**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210111 (1)

Standard Notes:

210104: MERC 7470/245.1
210105: MERC 7470/245.1
210106: MERC 7470/245.1
210107: MERC 7470/245.1
210108: MERC 7470/245.1
210109: MERC 7470/245.1
210110: MERC 7470/245.1
210111: MERC 7470/245.1

Prep Log Report

Batch Information: MERP 11818

Template Version: EF-IN-I-322(rev.01, 21Jan2014)

Prep Method	EPA 7470	Analysis Method	EPA 7470	Extracted By	LBT	Extracted Date/Time	05/28/2019 01:09:43:743
Block ID	8	Thermometer ID	PT-245	Block Temp (C)	93	Correction Factor (C)	0
Corrected Temp. (C)	93.00	Digestion Start Time	05/28/2019 01:10:24:143	Digestion End Time	05/28/2019 03:10:29:423	Digestion Vessel Lot	204633/PT-289
Batch Notes	Final Volume represents Final Sample Volume	Reviewed By	FRW	Reviewed By Date	05/28/2019 17:13		

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7470 W_P	BLANK	**2315928**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	LCS	**2315929**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210217 (1.5)
7470 W_P	RQS	**50225442011**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	MS	**2315930**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210217 (1.5)
7470 W_P	MSD	**2315931**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210217 (1.5)
7470 W_P	PS	**50225442018**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442019**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442020**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442021**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442022**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442023**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442024**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442025**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442026**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225442027**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225463001**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225463002**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	MERCURY-SPK (mL)
7470 W_P	RQS	**50225468001**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	MS	**2315932**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210217 (1.5)
7470 W_P	MSD	**2315933**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		210217 (1.5)
7470 W_P	PS	**50225468002**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225468003**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225468004**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		
7470 W_P	PS	**50225468005**	Water	30	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	209861 (1.8)	30		

Standard Notes:

210217: prepared fresh daily

Prep Log Report

Batch Information: MERC 15045

Template Version: EF-IN-I-322(rev.01, 21Jan2014)

Prep Method		Analysis Method	EPA 7470/7471/245.1	Extracted By	LBT	Extracted Date/Time	05/28/2019 01:11:13:264
Block ID	D	Thermometer ID	PT-245	Block Temp (C)	94	Correction Factor (C)	-1
Corrected Temp. (C)	93.00	Digestion Start Time	05/28/2019 01:11:13:264	Digestion End Time	05/28/2019 03:11:13:264	Digestion Vessel Lot	204633/PT-268
Batch Notes	Final Volume represents Final Sample Volume	Reviewed By		Reviewed By Date			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Volume (mL)	Conc. HNO3 (mL)	H2SO4 (mL)	5% KMnO4 (mL)	5% K2S2O8 (mL)	12% NH2OH*HCL (mL)	Final Volume (mL)	Sample Notes	CAL-STD
MERC_Q	CAL0	**CAL0**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210324 (1)
MERC_Q	CAL1	**CAL1**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210325 (1)
MERC_Q	CAL2	**CAL2**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210326 (1)
MERC_Q	CAL3	**CAL3**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210327 (1)
MERC_Q	CAL4	**CAL4**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210328 (1)
MERC_Q	CAL5	**CAL5**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210329 (1)
MERC_Q	CAL6	**CAL6**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210330 (1)
MERC_Q	ICV	**ICV**	WT	20	200224 (0.75)	208287 (1.5)	203545 (5)	210056 (2.5)	210332 (1.8)	30		210331 (1)

Standard Notes:

210324: MERC 7470/245.1
210325: MERC 7470/245.1
210326: MERC 7470/245.1
210327: MERC 7470/245.1
210328: MERC 7470/245.1
210329: MERC 7470/245.1
210330: MERC 7470/245.1
210331: MERC 7470/245.1

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

July 01, 2019

Pace Analytical - Indianapolis, IN

Sample Delivery Group:	L1101712
Samples Received:	05/23/2019
Project Number:	50225468
Description:	216 College / 19-146

Report To: Regina Bedel
7726 Moller Rd.
Indianapolis, IN 46268

Entire Report Reviewed By: Nancy F. McLain

Nancy McLain
Project Manager

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SP-1 L1101712-01 GW

Collected by | Collected date/time 05/17/19 11:45 | Received date/time 05/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 18:29	05/29/19 18:29	GB	Mt. Juliet, TN

SP-4 L1101712-02 GW

Collected by | Collected date/time 05/17/19 13:45 | Received date/time 05/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 21:04	05/29/19 21:04	GB	Mt. Juliet, TN

SP-5 L1101712-03 GW

Collected by | Collected date/time 05/17/19 10:23 | Received date/time 05/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:08	05/29/19 19:08	GB	Mt. Juliet, TN

SP-5 DUP L1101712-04 GW

Collected by | Collected date/time 05/17/19 10:23 | Received date/time 05/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:23	05/29/19 19:23	GB	Mt. Juliet, TN

EQ BLANK L1101712-05 GW

Collected by | Collected date/time 05/17/19 14:50 | Received date/time 05/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG1287501	1	05/29/19 19:32	05/29/19 19:32	GB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy McLain
Project Manager

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1101712-01	SP-1	7199
L1101712-02	SP-4	7199
L1101712-03	SP-5	7199
L1101712-04	SP-5 DUP	7199
L1101712-05	EQ BLANK	7199

7199 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SP-1

Lab Sample ID:	L1101712-01	**SDG:**	L1101712
Client Sample ID:	SP-1	**Collected Date/Time:**	05/17/19 11:45
Lab File ID:	13.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 18:29
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 18:29
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.224	J6	0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SP-4

Lab Sample ID:	L1101712-02	**SDG:**	L1101712
Client Sample ID:	SP-4	**Collected Date/Time:**	05/17/19 13:45
Lab File ID:	27.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 21:04
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 21:04
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.0539	J P1	0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SP-5

Lab Sample ID:	L1101712-03	**SDG:**	L1101712
Client Sample ID:	SP-5	**Collected Date/Time:**	05/17/19 10:23
Lab File ID:	18.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 19:08
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 19:08
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.124		0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SP-5 DUP

Lab Sample ID:	L1101712-04	**SDG:**	L1101712
Client Sample ID:	SP-5 DUP	**Collected Date/Time:**	05/17/19 10:23
Lab File ID:	19.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 19:23
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 19:23
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.0999		0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
EQ BLANK

Lab Sample ID:	L1101712-05	**SDG:**	L1101712
Client Sample ID:	EQ BLANK	**Collected Date/Time:**	05/17/19 14:50
Lab File ID:	20.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 19:32
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 19:32
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.135		0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3416028-1

Lab Sample ID:	R3416028-1	**SDG:**	L1101712
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	11.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 17:53
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 17:53
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	U		0.0200	0.0600

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3416028-2

Lab Sample ID:	R3416028-2	**SDG:**	L1101712
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	12.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 18:02
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 18:02
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.499		0.0200	0.0300

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3416028-7

Lab Sample ID:	R3416028-7	**SDG:**	L1101712
Client Sample ID:	DUP	**Collected Date/Time:**	05/17/19 13:45
Lab File ID:	28.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 21:13
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 21:13
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	0.0266	J P1	0.0200	0.0300

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3416028-3

Lab Sample ID:	R3416028-3	**SDG:**	L1101712
Client Sample ID:	MS	**Collected Date/Time:**	05/17/19 11:45
Lab File ID:	14.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 18:38
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 18:38
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	1.04	J6	0.0200	0.0300

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3416028-4

Lab Sample ID:	R3416028-4	**SDG:**	L1101712
Client Sample ID:	MSD	**Collected Date/Time:**	05/17/19 11:45
Lab File ID:	15.0000.TXT	**Received Date/Time:**	05/23/19 08:45
Instrument ID:	IC-17	**Preparation Date/Time:**	05/29/19 18:45
Analytical Batch:	WG1287501	**Analysis Date/Time:**	05/29/19 18:45
Dilution Factor:	1	**Prep Method:**	7199
Analytical Method:	7199	**Sample Vol Used:**	10 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	18540-29-9	1.03	J6	0.0200	0.0300

2-IN

CALIBRATION VERIFICATION

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919
Concentration Units:	mg/l		

	ICV				CCV				CCV			
Sample ID:	IC-170529191700-2				IC-170529191940-2				IC-170529192009-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM-LOW LEVEL	0.0010	0.0009619208	96.20		0.0010	0.0009719823	97.20		0.0010	0.0009715478	97.20	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919
Concentration Units:	mg/l		

CCV

Sample ID: IC-170529192121

Analyte	True	Found	%R	%RSD
HEXAVALENT CHROMIUM-LOW LEVEL	0.0010	0.0009808657	98.10	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN

BLANKS

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	11.0000.TXT		22.0000.TXT-2		26.0000.TXT-2		30.0000.TXT	
Analyte	mg/l		mg/l		mg/l		mg/l	
HEXAVALENT CHROMIUM-LOW LEVEL	U		0.0000		0.0000		0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1101712-01,02,03,04,05

SAMPLE NO.:
R3416028-3
R3416028-4

MS Sample / File ID:	R3416028-3 / 14.0000.TXT	**SDG:**	L1101712
MSD Sample / File ID:	R3416028-4 / 15.0000.TXT	**Analytical Batch:**	WG1287501
OS Sample / File ID:	L1101712-01 / 13.0000.TXT	**Matrix:**	GW
Instrument ID:	IC-17		
Analytical Method:	7199		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium-Low Level	1.00	0.224	1.04	1.03	81.1*	80.9*	1	90.0 - 110	0.222	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1101712-01,02,03,04,05

SAMPLE NO.:
R3416028-7

DUP Sample / File ID:	R3416028-7 / 28.0000.TXT	**SDG:**	L1101712
OS Sample / File ID:	L1101712-02 / 27.0000.TXT	**Analytical Batch:**	WG1287501
Instrument ID:	IC-17	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	GW

Analyte	OS Result	DUP Result	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*
Hexavalent Chromium-Low Level	0.0539	0.0266	67.8*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1101712-01,02,03,04,05

SAMPLE NO.: R3416028-2

LCS Sample / File ID:	R3416028-2 / 12.0000.TXT	**SDG:**	L1101712
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1287501
Instrument ID:	IC-17	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium-Low Level	0.500	0.499		99.8		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1101712	**Analytical Method:**	7199
Instrument ID:	IC-17	**Calibration Start Date:**	05/29/19 16:08
Analytical Run:	052919	**Calibration End Date:**	05/29/19 16:45

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	02.0000.TXT	05/29/19 16:08	1	
CAL	CAL 2	03.0000.TXT	05/29/19 16:15	1	
CAL	CAL 3	04.0000.TXT	05/29/19 16:23	1	
CAL	CAL 4	05.0000.TXT	05/29/19 16:30	1	
CAL	CAL 5	06.0000.TXT	05/29/19 16:37	1	
CAL	CAL 6	07.0000.TXT	05/29/19 16:45	1	
ICV	IC-170529191700-2	08.0000.TXT-2	05/29/19 17:00	1	
RL	IC-170529191710-2	09.0000.TXT-2	05/29/19 17:10	1	
BLANK	R3416028-1	11.0000.TXT	05/29/19 17:53	1	WG1287501
LCS	R3416028-2	12.0000.TXT	05/29/19 18:02	1	WG1287501
SP-1	L1101712-01	13.0000.TXT	05/29/19 18:29	1	WG1287501
MS	R3416028-3	14.0000.TXT	05/29/19 18:38	1	WG1287501
MSD	R3416028-4	15.0000.TXT	05/29/19 18:45	1	WG1287501
SP-5	L1101712-03	18.0000.TXT	05/29/19 19:08	1	WG1287501
SP-5 DUP	L1101712-04	19.0000.TXT	05/29/19 19:23	1	WG1287501
EQ BLANK	L1101712-05	20.0000.TXT	05/29/19 19:32	1	WG1287501
CCV	IC-170529191940-2	21.0000.TXT-2	05/29/19 19:40	1	
CCB	IC-170529191947-2	22.0000.TXT-2	05/29/19 19:47	1	
CCV	IC-170529192009-2	25.0000.TXT-2	05/29/19 20:09	1	
CCB	IC-170529192017-2	26.0000.TXT-2	05/29/19 20:17	1	
SP-4	L1101712-02	27.0000.TXT	05/29/19 21:04	1	WG1287501
DUP	R3416028-7	28.0000.TXT	05/29/19 21:13	1	WG1287501
CCV	IC-170529192121	29.0000.TXT	05/29/19 21:21	1	
CCB	IC-170529192128	30.0000.TXT	05/29/19 21:28	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919

Analyte	Std Conc	Result	Rec.	Std Conc	Result	Rec.
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM-LOW LEVEL	0.000030	.00002706938	90.20	0.000050	.00005426466	109
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919

Analyte	Std Conc	Result	Rec.	Std Conc	Result	Rec.
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM-LOW LEVEL	0.0001	.00010101001	101	0.0005	.00050311603	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM-LOW LEVEL	0.0010	.00099758409	99.80	0.0020	.00199695584	99.80
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1101712	**Calibration (begin) date/time:**	05/29/19 16:08
Instrument ID:	IC-17	**Calibration (end) date/time:**	05/29/19 16:45
Analytical Method:	7199	**Analytical Run:**	052919

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM-LOW LEVEL	5	1	0.99989			0.658	0.003	4.179

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
Incpt	Intercept.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

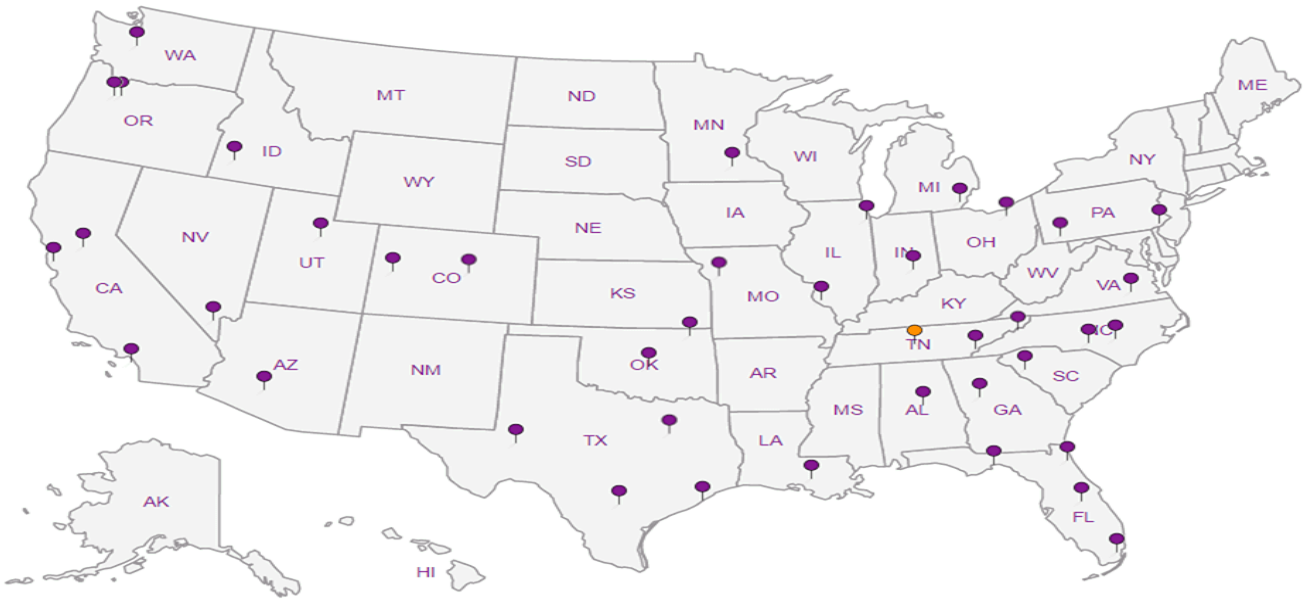
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody

Pace Analytical®
www.pacelabs.com

A116

Workorder: 50225468 **Workorder Name:** 216 College / 19-146 **Results Requested By:** 6/4/2019

Report / Invoice To	Subcontract To
Regina Bedel Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100 Email: regina.bedel@pacelabs.com	Pace National 12065 Lebanon Rd Mt Juliet, TN 37122

P.O. 50225468

State of Sample Origin: IN

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	7199 CR6 LLFFP + MS/MSD	7199 CR6 LLFFP	LAB USE ONLY
1	SP-1	5/17/2019 11:45	50225468001	Water	3	X		-01
2	SP-4	5/17/2019 13:45	50225468003	Water	1		X	-02
3	SP-5	5/17/2019 10:23	50225468004	Water	1		X	-03
4	SP-5 DUP	5/17/2019 10:23	50225468005	Water	1		X	-04
5	EQ Blank	5/17/2019 14:50	50225468006	Water	1		X	-05

L1101712

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	5-22-19 1649	[signature]	5-23-19 8:45
2				
3				

Comments: OK

Cooler Temperature on Receipt 3.4±0 °C 3.4 A39F | **Custody Seal** Y or N 4893 0206 3376 | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEEEN	SDG#:	L1101712	
Cooler Received/Opened On: 5/23/19	Temperature:	3.4	
Received By: Lexxi Romero			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50227372

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InOrganic

ICP

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 11, 2019

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 S. College / 19-146
Pace Project No.: 50227372

Dear Mr. Teuschler:
Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. John Kilmer, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants
Mr. Dan Rust, BCA Environmental Consultants, LLC

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 2018-101
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50227372001	**SP-3 (4-6)**	Solid	05/16/19 10:33	06/07/19 16:45
50227372002	**SP-3 (6-8)**	Solid	05/16/19 10:35	06/07/19 16:45
50227372003	**SP-3 (8-10.5)**	Solid	05/16/19 10:40	06/07/19 16:45
50227372004	**SP-4 (4-6)**	Solid	05/16/19 12:25	06/07/19 16:45
50227372005	**SP-4 (6-8)**	Solid	05/16/19 12:00	06/07/19 16:45
50227372006	**SP-4 (8-10.5)**	Solid	05/16/19 12:07	06/07/19 16:45

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SAMPLE ANALYTE COUNT

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50227372001	**SP-3 (4-6)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372002	**SP-3 (6-8)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372003	**SP-3 (8-10.5)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372004	**SP-4 (4-6)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372005	**SP-4 (6-8)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I
50227372006	**SP-4 (8-10.5)**	EPA 6010	RAM	1	PASI-I
		SM 2540G	RM1	1	PASI-I

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SUMMARY OF DETECTION

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50227372001	**SP-3 (4-6)**					
EPA 6010	Arsenic	8.4	mg/kg	1.2	06/10/19 09:17	
SM 2540G	Percent Moisture	20.1	%	0.10	06/10/19 09:05	H3
50227372002	**SP-3 (6-8)**					
EPA 6010	Arsenic	4.2	mg/kg	1.2	06/10/19 09:19	
SM 2540G	Percent Moisture	18.5	%	0.10	06/10/19 09:05	H3
50227372003	**SP-3 (8-10.5)**					
EPA 6010	Arsenic	5.2	mg/kg	1.1	06/10/19 09:21	
SM 2540G	Percent Moisture	17.7	%	0.10	06/10/19 09:06	H3
50227372004	**SP-4 (4-6)**					
EPA 6010	Arsenic	15.1	mg/kg	1.3	06/10/19 09:23	
SM 2540G	Percent Moisture	24.6	%	0.10	06/10/19 09:06	H3
50227372005	**SP-4 (6-8)**					
EPA 6010	Arsenic	8.6	mg/kg	1.2	06/10/19 09:26	
SM 2540G	Percent Moisture	21.4	%	0.10	06/10/19 09:06	H3
50227372006	**SP-4 (8-10.5)**					
EPA 6010	Arsenic	4.2	mg/kg	1.2	06/10/19 09:28	
SM 2540G	Percent Moisture	22.0	%	0.10	06/10/19 09:06	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (4-6) **Lab ID: 50227372001** Collected: 05/16/19 10:33 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.08 g Final Volume/Weight: 50 mL								
Arsenic	**8.4**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:17	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**20.1**	%	0.10	0.10	1		06/10/19 09:05		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (6-8) **Lab ID: 50227372002** Collected: 05/16/19 10:35 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.063 g Final Volume/Weight: 50 mL								
Arsenic	**4.2**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:19	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**18.5**	%	0.10	0.10	1		06/10/19 09:05		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-3 (8-10.5) **Lab ID: 50227372003** Collected: 05/16/19 10:40 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.068 g Final Volume/Weight: 50 mL								
Arsenic	**5.2**	mg/kg	1.1	0.23	1	06/08/19 09:50	06/10/19 09:21	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**17.7**	%	0.10	0.10	1		06/10/19 09:06		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (4-6) **Lab ID: 50227372004** Collected: 05/16/19 12:25 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.053 g Final Volume/Weight: 50 mL								
Arsenic	**15.1**	mg/kg	1.3	0.25	1	06/08/19 09:50	06/10/19 09:23	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**24.6**	%	0.10	0.10	1		06/10/19 09:06		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (6-8) **Lab ID: 50227372005** Collected: 05/16/19 12:00 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.075 g Final Volume/Weight: 50 mL								
Arsenic	**8.6**	mg/kg	1.2	0.24	1	06/08/19 09:50	06/10/19 09:26	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**21.4**	%	0.10	0.10	1		06/10/19 09:06		H3

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ANALYTICAL RESULTS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Sample: SP-4 (8-10.5) **Lab ID: 50227372006** Collected: 05/16/19 12:07 Received: 06/07/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Initial Volume/Weight: 1.105 g Final Volume/Weight: 50 mL								
Arsenic	**4.2**	mg/kg	1.2	0.23	1	06/08/19 09:50	06/10/19 09:28	7440-38-2	
Percent Moisture	Analytical Method: SM 2540G								
Percent Moisture	**22.0**	%	0.10	0.10	1		06/10/19 09:06		H3

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QUALITY CONTROL DATA

Project: 216 S. College / 19-146
Pace Project No.: 50227372

QC Batch: 505182 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

METHOD BLANK: 2331140 Matrix: Solid
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.20	1.0	0.20	06/10/19 08:48	

LABORATORY CONTROL SAMPLE: 2331141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2331142 2331143

Parameter	Units	50226732001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	2.1	23.4	23.1	31.4	24.6	126	97	75-125	25	20	M0,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 216 S. College / 19-146
Pace Project No.: 50227372

QC Batch: 505358 Analysis Method: SM 2540G
QC Batch Method: SM 2540G Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50227372001, 50227372002, 50227372003, 50227372004, 50227372005, 50227372006

SAMPLE DUPLICATE: 2332191

Parameter	Units	50227372001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.1	20.2	0	5	

SAMPLE DUPLICATE: 2332192

Parameter	Units	50227356001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	18.1	2	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 216 S. College / 19-146
Pace Project No.: 50227372

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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(317)228-3100

METHOD CROSS REFERENCE TABLE

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Solid	SW-846 6010B	SW-846 3050B

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 S. College / 19-146
Pace Project No.: 50227372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50227372001	**SP-3 (4-6)**	EPA 3050	505182	EPA 6010	505342
50227372002	**SP-3 (6-8)**	EPA 3050	505182	EPA 6010	505342
50227372003	**SP-3 (8-10.5)**	EPA 3050	505182	EPA 6010	505342
50227372004	**SP-4 (4-6)**	EPA 3050	505182	EPA 6010	505342
50227372005	**SP-4 (6-8)**	EPA 3050	505182	EPA 6010	505342
50227372006	**SP-4 (8-10.5)**	EPA 3050	505182	EPA 6010	505342
50227372001	**SP-3 (4-6)**	SM 2540G	505358		
50227372002	**SP-3 (6-8)**	SM 2540G	505358		
50227372003	**SP-3 (8-10.5)**	SM 2540G	505358		
50227372004	**SP-4 (4-6)**	SM 2540G	505358		
50227372005	**SP-4 (6-8)**	SM 2540G	505358		
50227372006	**SP-4 (8-10.5)**	SM 2540G	505358		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1935853

Section A Required Client Information:

Company:	BCA
Address:	
Email To:	JTEUSCHLER@BCA
Phone:	317-578-4233
Fax:	Consultants .com
Requested Due Date/TAT:	24-DAY JT

Section B Required Project Information:

Report To:	J. TEUSCHLER
Copy To:	
Purchase Order No.:	
Project Name:	216 S. College
Project Number:	19-146

Section C Invoice Information:

Attention:	SAME
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Arsenic	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 50227372
1	SP-3 (4-6)	SL	G			5-16-19	1033		1	1									1		001
2	SP-3 (6-8)	SL	G			5-16-19	1035		1	1									1		002
3	SP-3 (8-10.5)	SL	G			5-16-19	1040		1	1									1		003
4																					
5	SP-4 (4-6)	SL	G			5-16-19	1225		1	1									1		004
6	SP-4 (6-8)	SL	G			5-16-19	1200		1	1									1		005
7	SP-4 (8-10.5)	SL	G			5-16-19	1207		1	1									1		006
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		6-7-19	15:40	FED EX	6-7-19	15:40				
	FED EX	6-7-19	16:45	Lucas W Zargon	6/7/19	1645	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JACOB TEUSCHLER

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 6-7-19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50227372

Date/Time and Initials of person examining contents: LWG 1720 6/7/19

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ None ☐ Other _____ LWG

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☑ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☑ N/A

Cooler Temperature: 1.3/1.5 Ice Visible in Sample Containers?: ☐ Yes ☑ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☑ N/A

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		✓	All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓				
Chain of Custody Present:	✓		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			✓
Chain of Custody Filled Out:	✓		Dissolved Metals field filtered?:			✓
Short Hold Time Analysis (<72hr)?: Analysis:		✓	Headspace Wisconsin Sulfide			✓
Time 5035A TC placed in Freezer or Short Holds To Lab:				Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Rush TAT Requested: 2day	✓		Headspace in VOA Vials (>6mm):			✓
Containers Intact?:	✓		Trip Blank Present?:		✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Custody Seals?:		✓	

Comments:

F-IN-Q-290-rev.17,25Sep2018

Sample Container Count

WO# : 50227372

50227372

CLIENT: BCA

COC PAGE 1 of 1

COC ID# 1935853

Project # 50227372

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bu Kit R	Matrix Sl (Soil/Wat Aqueous	pH <2	pH >9	pH>12
1							1											SL			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40rnL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2N	500mL HNO3 plastic
BP2O	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3S	250mL H2SO4 plastic
BP3U	250mL unpreserved plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

SAMPLE NO.

SP-3 (4-6)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372001 Percent Moisture: 20.1

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	8.4		mg/kg	1	06/10/2019 09:17

SAMPLE NO.

SP-3 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372002 Percent Moisture: 18.5

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	4.2		mg/kg	1	06/10/2019 09:19

SAMPLE NO.

SP-3 (8-10.5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372003 Percent Moisture: 17.7

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	5.2		mg/kg	1	06/10/2019 09:21

SAMPLE NO.

SP-4 (4-6)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372004 Percent Moisture: 24.6

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	15.1		mg/kg	1	06/10/2019 09:23

SAMPLE NO.

SP-4 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372005 Percent Moisture: 21.4

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	8.6		mg/kg	1	06/10/2019 09:26

SAMPLE NO.

SP-4 (8-10.5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372006 Percent Moisture: 22.0

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
7440-38-2	Arsenic	4.2		mg/kg	1	06/10/2019 09:28

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Initial Calibration Verification Source: 211595

Continuing Calibration Verification Source: 211596

Concentration Units: ug/L Instrument ID: 50ICP3

	Initial Calibration Verification				Continuing Calibration Verification						
	06/10/2019 08:37				06/10/2019 09:10			06/10/2019 09:37			
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	Control Limit
Arsenic	1000	1010	100.7	90-110	1000	999	99.9	1000	1000	100.4	90-110

FORM II INORGANIC-1

CRDL CHECK STANDARD

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

CRDL Check Standard Source: 211319 Analysis Date/Time: 06/10/2019 08:41

Concentration Units: ug/L

Analyte	CRDL Check Standard			
	True	Found	%R	Control Limit %R
Arsenic	10.0	8.7	87.0	50-150

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract : 216 S. College / 19-146

Method Blank Matrix: Solid Instrument ID: 50ICP3

Method Blank Concentration Units: mg/kg

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Method Blank	
	06/10/2019 08:39	C	06/10/2019 09:12	C	06/10/2019 09:39	C		C	2331140	C
Arsenic	5.0	U	5.0	U	5.0	U			<0.20	U

FORM IV INORGANIC-1
INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Instrument ID: 50ICP3 Solution A Run Date: 06/10/2019 08:43

ICS Source: 211568,211569 Solution AB Run Date: 06/10/2019 08:46

Concentration Units: ug/L

Analyte	True		Found				
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Limits
Aluminum	500000	500000	520600	104.1	524100	104.8	80-120
Arsenic		500	-4.381		525.2	105	80-120
Calcium	500000	500000	464300	92.9	467500	93.5	80-120
Iron	200000	200000	194000	97	195400	97.7	80-120
Magnesium	500000	500000	532000	106.4	530800	106.2	80-120

SAMPLE NO.

2331142MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Non Aqueous Liquid Basis: Wet Parent Sample ID: 50226732001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	mg/kg	75-125	31.4	2.1	23.4	126*

* Spike Recovery outside QC Limits

SAMPLE NO.

2331143MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Non Aqueous Liquid Basis: Wet Parent Sample ID: 50226732001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	mg/kg	75-125	24.6	2.1	23.1	97

SAMPLE NO.

2332136PDS

FORM V INORGANIC-1

POST-DIGESTION SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Non Aqueous Liquid Parent Sample ID: 50226732001

Analyte	Units	Control Limit %R	DF	Spiked Sample Result (SSR)	DF	Sample Result (SR)	Spike Added (SA)	%R
Arsenic	ug/L	75-125	1	1070	1	45.5	1000	102.8

SAMPLE NO.

2331143MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Non Aqueous Liquid Concentration Units: mg/kg

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Arsenic	20	31.4	24.6	25*

* RPD outside QC Limits

SAMPLE NO.

2331141LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Solid

Analyte	Units	True	Found	%R	Limits	
Arsenic	mg/kg	50.0	50.8	102	80	120

SAMPLE NO.

2332135SD

FORM VIII INORGANIC-1
SERIAL DILUTIONS

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Non Aqueous Liquid Parent Sample ID: 50226732001

Analyte	Units	Initial Sample Result	Serial Dilution Result	% Difference	Control Limit %D
Arsenic	ug/L	45.5	93.6J	105.6*	10

* Indicates that the % Difference exceeds the control limit.
No difference is calculated if either result is a non-detect.

07/01/2019 15:15

FORM XI - INORGANIC-1
LINEAR DYNAMIC RANGES

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract : 216 S. College / 19-146

Instrument ID: 50ICP3 Effective Date:01/28/2016

Analyte	Concentration (ug/L)
Arsenic	35000

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Preparation Method: EPA 3050 Batch: MPRP 36175

Lab Sample ID	Sample Name	Preparation Date	Initial Weight (g)	Final Volume (mL)
2331140	2331140BLANK	06/08/2019	1	50
2331141	2331141LCS	06/08/2019	1	50
2331142	2331142MS	06/08/2019	1.069	50
2331143	2331143MSD	06/08/2019	1.083	50
50227372001	SP-3 (4-6)	06/08/2019	1.08	50
50227372002	SP-3 (6-8)	06/08/2019	1.063	50
50227372003	SP-3 (8-10.5)	06/08/2019	1.068	50
50227372004	SP-4 (4-6)	06/08/2019	1.053	50
50227372005	SP-4 (6-8)	06/08/2019	1.075	50
50227372006	SP-4 (8-10.5)	06/08/2019	1.105	50

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Instrument ID: 50ICP3 Analysis Method: EPA 6010

Start Date: 06/10/2019 08:19 End Date: 06/10/2019 14:40

Sample Name	Lab Sample ID	D/F	Date	Time	As
15219287CAL0	15219287CAL0	1	06/10/2019	08:19	X
15219290CAL3	15219290CAL3	1	06/10/2019	08:26	X
15219295ICV	15219295ICV	1	06/10/2019	08:37	X
15219296ICB	15219296ICB	1	06/10/2019	08:39	X
15219298CRDL	15219298CRDL	1	06/10/2019	08:41	X
15219299ICSA	15219299ICSA	1	06/10/2019	08:43	X
15219300ICSAB	15219300ICSAB	1	06/10/2019	08:46	X
2331140BLANK	2331140	1	06/10/2019	08:48	X
2331141LCS	2331141	1	06/10/2019	08:50	X
50226732001	50226732001	1	06/10/2019	08:52	
2332135SD	2332135	1	06/10/2019	08:54	X
2332136PDS	2332136	1	06/10/2019	08:57	X
15219303CCV	15219303CCV	1	06/10/2019	09:10	X
15219304CCB	15219304CCB	1	06/10/2019	09:12	X
SP-3 (4-6)	50227372001	1	06/10/2019	09:17	X
SP-3 (6-8)	50227372002	1	06/10/2019	09:19	X
SP-3 (8-10.5)	50227372003	1	06/10/2019	09:21	X
SP-4 (4-6)	50227372004	1	06/10/2019	09:23	X
SP-4 (6-8)	50227372005	1	06/10/2019	09:26	X
SP-4 (8-10.5)	50227372006	1	06/10/2019	09:28	X
15219308CCV	15219308CCV	1	06/10/2019	09:37	X
15219309CCB	15219309CCB	1	06/10/2019	09:39	X
2331142MS	2331142	1	06/10/2019	14:38	X
2331143MSD	2331143	1	06/10/2019	14:40	X

FORM XV INORGANIC-1

INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Instrument ID: 50ICP3 Start Date: 06/10/2019 08:19 End Date: 06/10/2019 09:39

Sample Name	Time	Y1	Y2	Y3
15219287CAL0	08:19	100.0	100.0	100.0
15219290CAL3	08:26	102.7	101.4	
15219295ICV	08:37	100.4	99.2	100.2
15219296ICB	08:39	101.1	101.0	99.7
15219298CRDL	08:41	101.8	102.7	100.8
15219299ICSA	08:43	89.8	87.1	96.8
15219300ICSAB	08:46	88.6	86.2	95.5
2332135SD	08:54	105.8	105.4	104.9
2332136PDS	08:57	104.8	103.7	105.3
15219303CCV	09:10	101.2	99.9	99.8
15219304CCB	09:12	102.1	102.6	101.5
15219308CCV	09:37	100.8	99.7	100.2
15219309CCB	09:39	101.1	100.3	98.6

Prep Log Report

Batch Information: MPRP 36175

Template Version: EF-IN-I-318-Rev.01 (08Aug2017)

Prep Method	EPA 3050	Analysis Method	EPA 6010	Extracted By	cel	Extracted Date/Time	06/08/2019 09:50:09:985
Solid Matrix Lot	201780	Instrument	50BALL	Block ID	9	Block Temp (C)	95
Correction Factor (C)	0	Corrected Temp. (C)	95	Acceptance Range:	95 +/- 3 C	Thermometer ID	pt258
Digestion Vessel Lot	211320/174134 antifoam	Batch Notes	211570 filtermate	Reviewed By	RAM	Reviewed By Date	06/10/2019 14:52

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Matrix	Initial Weight (g)	Conc. HNO3 (mL)	H2O2 (mL)	Conc. HCL (mL)	Final Volume (mL)	Due Date	Sample Notes	6010-SPK (mL)
6010 S_P	BLANK	**2331140**	Solid	1	200224 (5)	211311 (4)	209941 (5)	50		1*	
6010 S_P	LCS	**2331141**	Solid	1	200224 (5)	211311 (4)	209941 (5)	50		1*	210984 (1)
6010 S_P	PS	**50226732001**	Non Aqueous Liquid	1.103	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	MS	**2331142**	Non Aqueous Liquid	1.069	200224 (5)	211311 (4)	209941 (5)	50		2*	210984 (0.5)
6010 S_P	MSD	**2331143**	Non Aqueous Liquid	1.083	200224 (5)	211311 (4)	209941 (5)	50		2*	210984 (0.5)
6010 S_P	PS	**50227282005**	Solid	1.069	200224 (5)	211311 (4)	209941 (5)	50		1*	
6010 S_P	PS	**50227282006**	Solid	1.154	200224 (5)	211311 (4)	209941 (5)	50		1*	
6010 S_P	PS	**50227006001**	Solid	1.018	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227356001**	Solid	1.044	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372001**	Solid	1.08	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372002**	Solid	1.063	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372003**	Solid	1.068	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372004**	Solid	1.053	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372005**	Solid	1.075	200224 (5)	211311 (4)	209941 (5)	50		2*	
6010 S_P	PS	**50227372006**	Solid	1.105	200224 (5)	211311 (4)	209941 (5)	50		2*	

Sample Notes:

1*: antifoam; w/b cel 060719

2*: w/b cel 060719

Standard Notes:

210984: ICP-SPK

SAMPLE NO.

SP-3 (4-6)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	20.1		%	1	06/10/2019 09:05

SAMPLE NO.

SP-3 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	18.5		%	1	06/10/2019 09:05

SAMPLE NO.

SP-3 (8-10.5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	17.7		%	1	06/10/2019 09:06

SAMPLE NO.

SP-4 (4-6)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	24.6		%	1	06/10/2019 09:06

SAMPLE NO.

SP-4 (6-8)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	21.4		%	1	06/10/2019 09:06

SAMPLE NO.

SP-4 (8-10.5)

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Lab Sample ID: 50227372006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Percent Moisture	22.0		%	1	06/10/2019 09:06

SAMPLE NO.

2332191DUP

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	20.1	20.2	0

SAMPLE NO.

2332192DUP

FORM VI INORGANIC-2
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Matrix: Solid Concentration Units: %

Percent Moisture: Basis: Wet

Analyte	Control Limit	Sample	Duplicate	RPD
Percent Moisture	5	17.8	18.1	2

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Preparation Method: SM 2540G Batch: PMST 16184

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2332191	2332191DUP	06/10/2019	1	1
2332192	2332192DUP	06/10/2019	1	1
50227372001	SP-3 (4-6)	06/10/2019	1	1
50227372002	SP-3 (6-8)	06/10/2019	1	1
50227372003	SP-3 (8-10.5)	06/10/2019	1	1
50227372004	SP-4 (4-6)	06/10/2019	1	1
50227372005	SP-4 (6-8)	06/10/2019	1	1
50227372006	SP-4 (8-10.5)	06/10/2019	1	1

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50227372 Contract: 216 S. College / 19-146

Instrument ID: 50BALH Analysis Method: SM 2540G

Start Date: 06/10/2019 09:05 End Date: 06/10/2019 09:07

Sample Name	Lab Sample ID	D/F	Date	Time	MOIST
SP-3 (4-6)	50227372001	1	06/10/2019	09:05	X
2332191DUP	2332191	1	06/10/2019	09:05	X
SP-3 (6-8)	50227372002	1	06/10/2019	09:05	X
SP-3 (8-10.5)	50227372003	1	06/10/2019	09:06	X
SP-4 (4-6)	50227372004	1	06/10/2019	09:06	X
SP-4 (6-8)	50227372005	1	06/10/2019	09:06	X
SP-4 (8-10.5)	50227372006	1	06/10/2019	09:06	X
50227356001	50227356001	1	06/10/2019	09:06	X
2332192DUP	2332192	1	06/10/2019	09:07	X

Prep Log Report

Batch Information: PMST 16184

Template Version: EF-IN-Q-337-Rev.03 (06Feb2017)

Analysis Method	SM 2540G	Analyzed By	RM1	Instrument	50BALH	Oven ID	50WETZ
Thermometer ID	PT-112	Oven Temp Correction Factor	0	Oven Temp In1 | Corr | Date/Time | Init	105.0 | 105.0 | 06/10/2019 09:30 | RM1	Oven Temp Out1 | Corr | Date/Time | Init	105.0 | 105.0 | 06/11/2019 08:00 | RM1
Reviewed By	MLS	Reviewed By Date	06/11/2019 10:24	Batch Notes			

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50227372001**	Y	79.88	20.12	06/10/2019 09:05:33	11.028	1.044	13.542	11.028	M	300	
DRY WEIGHT	DUP	**2332191**	Y	79.82	20.18	06/10/2019 09:05:43	12.275	1.065	15.109	12.275	M	301	
DRY WEIGHT	PS	**50227372002**	Y	81.52	18.48	06/10/2019 09:05:52	15.109	1.035	18.3	15.109	M	302	
DRY WEIGHT	PS	**50227372003**	Y	82.28	17.72	06/10/2019 09:06:01	15.626	1.037	18.768	15.626	M	303	
DRY WEIGHT	PS	**50227372004**	Y	75.43	24.57	06/10/2019 09:06:11	12.337	1.047	16.015	12.337	M	304	
DRY WEIGHT	PS	**50227372005**	Y	78.55	21.45	06/10/2019 09:06:26	10.708	1.023	13.352	10.708	M	305	
DRY WEIGHT	PS	**50227372006**	Y	77.99	22.01	06/10/2019 09:06:35	11.114	1.05	13.954	11.114	M	306	
DRY WEIGHT	PS	**50227356001**	Y	82.16	17.84	06/10/2019 09:06:51	10.372	1.011	12.405	10.372	M	307	
DRY WEIGHT	DUP	**2332192**	Y	81.86	18.14	06/10/2019 09:07:03	10.134	1.061	12.144	10.134	M	308	
DRY WEIGHT	PS	**50227396001**	Y	86.90	13.10	06/10/2019 09:07:26	5.312	1.054	5.954	5.312	M	309	TC
DRY WEIGHT	PS	**50227396002**	Y	79.99	20.01	06/10/2019 09:07:38	4.567	1.053	5.446	4.567	M	310	TC
DRY WEIGHT	PS	**50227396003**	Y	89.27	10.73	06/10/2019 09:07:48	5.927	1.034	6.515	5.927	M	311	TC
DRY WEIGHT	PS	**50227396004**	Y	91.19	8.806	06/10/2019 09:07:58	6.81	1.052	7.366	6.81	M	312	TC
DRY WEIGHT	PS	**50227396005**	Y	81.72	18.28	06/10/2019 09:08:07	3.945	1.025	4.598	3.945	M	313	TC
DRY WEIGHT	PS	**50227396006**	Y	77.20	22.80	06/10/2019 09:08:21	4.522	1.069	5.542	4.522	M	314	TC
DRY WEIGHT	PS	**50227396007**	Y	80.50	19.50	06/10/2019 09:08:31	5.402	1.009	6.466	5.402	M	315	TC
DRY WEIGHT	PS	**50227396008**	Y	90.41	9.591	06/10/2019 09:08:41	5.963	1.033	6.486	5.963	M	316	TC
DRY WEIGHT	PS	**50227396009**	Y	83.29	16.71	06/10/2019 09:08:52	6.829	1.049	7.989	6.829	M	317	TC

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Select	TS Posted (%)	Percent Moisture	Run Date/Time	Posted Dry Weight /w Dish (g)	Dish Weight (g)	Wet Weight /w Dish (g)	Dry Weight 1 (g)	Dry Wt Use 1	ID	Sample Notes
DRY WEIGHT	PS	**50227396010**	Y	87.48	12.52	06/10/2019 09:09:04	6.166	1.025	6.902	6.166	M	318	TC
DRY WEIGHT	PS	**50227396011**	Y	82.60	17.40	06/10/2019 09:09:31	6.282	1.031	7.388	6.282	M	319	TC
DRY WEIGHT	PS	**50227396012**	Y	80.89	19.11	06/10/2019 09:09:42	4.024	1.018	4.734	4.024	M	320	TC
DRY WEIGHT	PS	**50227396013**	Y	87.86	12.14	06/10/2019 09:10:12	4.783	1.028	5.302	4.783	M	321	TC

ATTACHMENT 3

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

May 31, 2023

BCA Project No. 23-134

BCA™ Environmental Consultants

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BCA™ Environmental Consultants

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

May 31, 2023

BCA Project No. 23-134

Prepared For:
City of Bloomington Redevelopment Commission and
City of Bloomington
Cooperative Agreement No. BF-00E03051

Respectfully Submitted by:
BCA Environmental Consultants, LLC

Rod A. Manny
Project Geologist

Jacob Teuschler
Project Manager

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1.0 SUMMARY

BCA Environmental Consultants, LLC (BCA) has performed a Phase I Environmental Site Assessment (ESA) of the north section of the parking lot (Sicks Parking Lot) located at 216 S. College Ave., Bloomington, Monroe County, Indiana 47404 (Subject Property). The work was conducted within the framework of the ASTM 1527-21 and the All Appropriate Inquiry (AAI) Standards. The Subject Property is bounded by commercial and residential properties.

The Subject Property was historically utilized as a filling station from 1927 until it was converted into a parking lot between 1955 and 1963. In total, five (5) gas tanks were observed on historical fire insurance maps of the Subject Property. The Subject Property was still being utilized as a parking lot during the Site reconnaissance. The Subject Property is currently owned by Thomas Sicks & Nancy Held.

This assessment has revealed evidence of the following Recognized Environmental Conditions (RECs) or Vapor Encroachment Conditions (VECs) currently in connection with the Subject Property:

Parking Lot (Subject Property), 216 S. College Avenue
A Phase II ESA was conducted on the Subject Property in 2019 (BCA, 2019b). The results of the sampling and analyses confirmed that soil and groundwater on the Subject Property had been impacted by the historical handling and distribution of petroleum products. Most notable was the presence of petroleum related compounds in the groundwater at the two (2) probes. Benzene, 1-methylnaphthalene, and naphthalene were detected on the Subject Property at concentrations exceeding the R2 Residential HHL. Regarding soils, arsenic, benzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene were detected at concentrations exceeding the RCG Migration to Groundwater (MTGW) SLs.

- The detection of elevated concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the Phase II ESA in 2019 is a REC and a VEC.

- The historical utilization of the Subject Property as a gasoline filling station that operated on the Subject Property with multiple gasoline tanks from the 1920s through at least the late 1950s with no documentation of proper closure is a REC and a VEC.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is a REC.

See sections 7.1 through 7.3 of this report for details of BCA's findings, opinions, and conclusions.

2.0 INTRODUCTION

2.1 Location and Legal Description

The parking lot at 216 S. College Avenue (Subject Property) is comprised of one (1) parcel of land (#53-05-33-310-243.000-005), totaling approximately 0.4 acres in size, and situated in the SW ¼ of the SW ¼ of the SW ¼ of Section 33, Township 9N, Range 1W in Bloomington, Monroe County, Indiana. The Subject Property is currently owned by "Sicks, Thomas & Held, Nancy" and has a legal street address of N. College Ave. Bloomington, Indiana, 47404 (**Figures 1** - **2**).

2.1.1 Site and Vicinity General Characteristics

The Subject Property is a commercial parking lot and the surrounding area is predominantly commercial in nature.

2.1.2 Current Uses of the Property

The Subject Property is currently being utilized as a parking lot.

2.1.3 Descriptions of Structures, Roads, Other Improvements

The Subject Property contains approximately 17,424 ft^2 of paved parking with curb cuts onto W. 4th Street. The Subject Property has electricity, natural gas, and city water and sewer services available to it.

2.1.4 Current Uses of the Adjoining Properties

The Subject Property is bordered generally by commercial office space to the west; commercial retail stores to the north across W. 4th Street; restaurants to the east across College Avenue; and a continuation of the parking lot to the south.

2.2 Purpose

BCA was requested and authorized by Mr. Alex Crowley, Director, Office of Economic and Sustainable Development, City of Bloomington, Indiana to perform a Phase I Environmental Site Assessment (ESA) of the parking lot located at 216 S. College Avenue in Bloomington, Indiana. This report is prepared for the City of Bloomington Redevelopment Commission (User) and the City of Bloomington and is funded through a U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement No. BF-00E03051). This report presents the information obtained during the investigation and provides findings, opinions, and conclusions based on the information.

2.3 Detailed Scope-Of-Services

BCA performed this Phase I Environmental Site Assessment pursuant to the scope of work requested by the client. This work was performed in accordance with the "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM E1527-21 (the Standard) with the exceptions noted in Section 2.5 below and the All Appropriate Inquiry (AAI) standard codified at 40 CFR 312 as updated December 21, 2021. To accomplish the goals set forth in the Standard and AAI, BCA personnel conducted historical research, a review of public records,

interviews, and a site visit.

The scope of historical research conducted by BCA in the preparation of this Phase I site assessment included a search of Sanborn Fire Insurance Map coverage for the area of and around the Subject Property, a review of available city directory listings for addresses near the subject property, a review of historical aerial photographs of the subject property and surrounding land, a review of available Property Tax Records, and a review of available building permits.

The public records search included, but is not limited to, an examination of US EPA and Indiana Department of Environmental Management (IDEM) computer databases for sites that fall within the search radii that are published in the Standard. An effort was made to find specific information about the Subject Property and adjoining sites identified in this database search that could have an impact on the Subject Property. This effort included a review of files that are available online on the IDEM Virtual File Cabinet (VFC).

The site visit portion of the assessment included an inspection of the Subject Property and those parts of neighboring properties that could be seen from public rights-of-way around and near the Subject Property. Appropriate notes and photographs were obtained pursuant to the Standard.

2.4 Significant Assumptions

Assumptions made in the preparation of this report include the assumption that the environmental records obtained from the IDEM and US EPA internet sites are complete and up-to-date. It also has been assumed that information on groundwater flow and vapor migration in an area can *in general* be extrapolated from the local topography, surface drainage, investigations from local LUST, State Clean-up, and VRP sites, and published reports. BCA has assumed that all persons that were interviewed for this report have been truthful in their answers.

2.5 Limitations and Exceptions

BCA based the conclusions of this Phase I report upon the information described herein subject to the limitations attached to or described in the report. Because of the limited nature of the inquiry, BCA makes no warranties; either expressed or implied, that the site is free of contamination. BCA does warrant, however, that it performed this assessment in accordance with the level of care and skill ordinarily exercised by other persons or entities currently performing similar work and practicing under similar conditions.

2.6 Special Terms and Conditions

No Special terms or conditions apply to this Phase I report.

2.7 User Reliance

BCA makes this report for the benefit of the City of Bloomington Redevelopment Commission (User) and the City of Bloomington who may rely upon it. A copy of the

report may be given to a lender, investor or purchaser of the property covered by the report. Reliance by any third party on this report is prohibited without approval by BCA. The reliance on this report by any person or party (other than the User) is limited by the ASTM standard since a third party is not the User and has not fulfilled User Obligations. ASTM E1527-21 specifies that a report completed less than 180 days previously is presumed to be valid.

3.0 USER PROVIDED INFORMATION

3.1 Chain of Ownership

No title search or related information was provided by the User. However, a Property Report Card (PRC) with partial ownership history was obtained from the Monroe County GIS Web site. According to the PRC, the current owner of the Subject Property is Thomas Sicks & Nancy Held.

According to the PRC, the immediate past owner of the Subject Property is Marilyn A. Sicks.

Refer to Section 4.4.4 for further information regarding property ownership history.

3.2 Environmental Liens

The User is not aware of any environmental liens or activity and use limitations (AULs) associated with the Subject Property. A search provided by *EDR* reported no environmental liens or AULs associated with the Subject Property (**Appendix B**). In addition, a search of the IDEM Institutional Controls (IC) Registry was conducted by BCA on April 7, 2023. No AULs were found for the Subject Property or immediately adjoining sites in the IDEM IC Registry.

3.3 Specialized Knowledge

No specialized knowledge was provided by the User for the preparation of this report.

3.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information was used in preparation of this report.

3.5 Valuation Reduction for Environmental Issues

There is no known valuation reduction associated with the Subject Property and the User is not aware of any valuation reduction for environmental issues.

3.6 Owner, Property Manager, and Occupant Information

The Subject Property is currently owned by Thomas Sicks & Nancy Held and contains an approximately 17,424 ft^2 parking lot.

3.7 Reason for Performing Phase I

BCA makes this report for the benefit of the City of Bloomington Redevelopment Commission (User) and the City of Bloomington who may rely upon it. A copy of the report may be given to a lender, investor or purchaser of the property covered by the report. The reliance on this report by any person or party (other than the User) is limited by the ASTM standard since a third party is not the User and has not fulfilled User Obligations. ASTM E1527-21 specifies that a report completed less than 180 days previously is presumed to be valid.

The User completed and signed the AAI User Questionnaire provided in **Appendix C**.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Agency public records maintained by the Indiana Department of Environmental Management (IDEM) and made available on the internet through the Virtual File Cabinet (VFC) and those of the U.S. EPA available from electronic databases were searched on April 5, 2023 by BCA and *EDR* to determine if there had been any environmental reports, permits, incidents, or similar events specified in the ASTM 1527-21 Standard at or near the Subject Property. Pertinent records and search results are provided in **Appendix D**.

Based on our review of the records, it appears that:

a) No Federal NPL sites are currently located within one mile of the Subject Property.

b) No Federal Delisted NPL sites are currently located within one-half mile of the Subject Property.

c) No Federal CERCLIS (SEMS) sites are currently located within one-half mile of the Subject Property.

d) Two (2) Federal CERCLIS NFRAP (SEMS – Archive) sites are currently located within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

e) Two (2) Federal RCRA Corrective Action sites are currently located within one mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

f) Two (2) RCRA TSD facilities are located within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

g) No RCRA hazardous waste generator sites are reported on the Subject Property or adjoining properties.

h) One (1) RCRA Non-Generator hazardous waste generator site is reported on the Subject Property or adjoining properties. See *EDR* Report in Appendix D and Section 4.2 below for additional information.

i) No Federal IC / EC registries are reported on the Subject Property or adjoining properties.

j) No Federal ERNS registries are reported for the Subject Property.

k) 22 state-listed cleanup sites are located within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

l) No State records of reported spills were found for the Subject Property or adjoining properties.

m) Six (6) Solid Waste Landfill or solid waste disposal facilities are located within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

n) No registered Underground Storage Tank (UST) sites are located on the Subject Property or on sites adjoining the Subject Property.

o) Nineteen (19) Leaking Underground Storage Tank (LUST) sites are located within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

p) No State IC / EC registries are reported for the Subject Property or adjoining properties.

q) Two (2) State Voluntary Remediation sites are situated within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

r) 29 State and U.S. Brownfield Program Site listings are situated within one-half mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

s) 45 registered or Historic Drycleaner Site listings are situated within one-quarter mile of the Subject Property. See *EDR* Report in Appendix D for additional information.

t) No reported PFAS Sites are reported within one-quarter mile of the Subject Property.

4.2 Additional Environmental Records

BCA searched IDEM's VFC on April 7, 2023 for any environmentally significant reports associated with the Subject Property or adjoining sites. In addition, environmental reports of the Subject Property and nearby sites not found in the VFC were reviewed and summarized below.

Parking Lot (Subject Property), 216 S. College Avenue

No significant files were found in the IDEM VFC for the Subject Property. BCA completed a Phase I and Phase II ESA on the Subject Property and adjoining areas to the south and west in 2019 (BCA, 2019a & BCA, 2019b). A total of two (2) soil and

groundwater probes were advanced throughout the Subject Property and soil and groundwater were sampled for VOCs, PAHs, SVOCs, and metals. The results of the sampling & analyses confirmed that soil and groundwater on the Subject Property has been impacted by the historical handling and distribution of petroleum products. Most notable was the presence of petroleum related compounds in the groundwater at the two (2) probes. Benzene, 1-methylnaphthalene, and naphthalene were detected on the Subject Property at concentrations exceeding the R2 Residential HHL. Regarding soils, arsenic, benzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene were detected at concentrations exceeding the RCG Migration to Groundwater (MTGW) SLs.

It is unclear if the petroleum impacts have migrated off-site, although it is possible. In addition, there does not appear to be an immediate potential for vapor migration exposure on the Subject Property or within the surrounding area from the results at the locations sampled.

Josephine Brown Trust Property, 211 & 213 S. College Avenue
This property is located about 75 feet east of the Subject Property across College Avenue. According to documentation, this site has operated as an automotive dealership, auto repair shop, gasoline service station, and automotive rental facility. A total of seven (7) underground storage tanks were removed from the site in 1995. A total of 1,600 tons of contaminated soil were removed from the site for proper disposal. Eight (8) monitoring wells were installed on-site and screened near the soil/bedrock interface at approximately 15 feet below ground surface. All monitoring wells produced water with acceptable concentration levels except for one. MW-7 appears to produce water with elevated levels of PCE and TCE. These findings are reported in a site remediation report dated July 16th, 1997. A brownfields Site Status Letter was granted to the site in October 1998, indicating that "there is no risk of exposure to any chemical of potential concern at the property, and the reuse of the property is not expected to pose any additional risk to human health or result in any additional harm to the environment". VFC Documents # 14582194 & 15433359.

4.3 Physical Setting

As estimated from the U.S. Geologic Survey 7.5 Minute Series Topographic Quadrangle Map for Bloomington, Indiana (2013; C.I. = 10 feet), the elevation of the site is approximately 750 feet above mean sea level, relative to the North American Vertical Datum of 1988. The Subject Property is situated on relatively level terrain. Surface drainage in the overall area of the Subject Property is generally to the south-southeast toward Clear Creek located 0.4 miles southeast of the Subject Property. However, surface drainage at the Subject Property is influenced somewhat by the adjacent streets and municipal storm water system.

4.3.1 Soils

As described in the *Web Soil Survey, Soil Resource Report for Monroe County, Indiana Parking Lot-216 S. College Ave.,* and accessed on April 6, 2023, there is one (1) soil map unit within the Subject Property:

Ua Udorthents, loamy 100%
Udorthents are human-altered and human-transported (HAHT) soils and materials. HAHT soils include those intentionally and substantially modified by humans for specific purposes (e.g., terraced agriculture, building support, mining, transportation, etc.). They do not include soils modified through standard agricultural practices (such as shallow plowing, liming, and fertilization) or farmed soils with unintended wind and water erosion (Web Soil Survey, **Appendix E**).

4.3.2 Surficial Geology
The area of the Subject Property is underlain by approximately 5 to 15 feet of unconsolidated deposits that lie on Mississippian age bedrock (Fenelon, et al, 1994). Total thickness of unconsolidated deposits overlying bedrock in Monroe County is commonly reported as 6 to 25 feet. The unconsolidated sediments consist of Terra Rossa – red, clayey regolith, 5 to 50 feet thick, over limestone of Middle Mississippian age.

4.3.3 Bedrock Geology
The Subject Property and surrounding area lie within the Mitchell Plateau physiographic unit within the Southern Hills and Lowlands regional physiographic province (Gray, 2000). The Mitchell Plateau is bounded by the older rocks of Norman Upland on the east and the younger rocks of the Crawford Upland to the west. The Mitchell Plateau (also referred to as the Mitchell Plain) is a karst area in Indiana of relatively low relief. An extensive underlying cave system developed in Mississippian age limestone bedrock. Surface drainage is rare due to most streams in the area disappearing into caves or joints within the rock.

Bedrock at the site is reported to be the Mississippian-aged Sanders Group (that includes the Harrodsburg and Salem Limestones). The Sanders Group consists of a variety of carbonate rocks in complex facies relationships. The Ramp Creek and Muldraugh Formations at the base of the group are dominantly a mixture of fine-grained dolomite and limestone. Cherty and siliceous intervals are common, and minor amounts of siltstone and shale are present. Above that interval in the Harrodsburg Limestone, well-cemented bioclastic calcarenites and calcirudites are dominant over argillaceous limestone, dolosiltites, and shale. The abundance of geodes and chert decreases upward in the group. The Salem Limestone except for the Somerset Shale Member at its base is dominated by porous calcarenite, although it contains a wide variety of other kinds of limestone.

4.3.4 Hydrology
Surface Water
The Subject Property lies within the East Fork White River basin, which has a total drainage area of 5,746 square miles in south-central Indiana. In general, drainage of the Mitchell Plain (including the Subject Property) in Monroe County is considerably different from the rest of the basin; most runoff quickly leaves the surface by entering sinkholes and becoming part of the ground-water system. In

the streams that do flow across the Mitchell Plain, some surface water is intercepted by swallow holes and diverted underground into either the groundwater system or subterranean channels. Surface water drainage from the Subject Property flows southeast into Clear Creek, located 0.16 miles to the southeast.

Unconsolidated Aquifer System
The Subject Property lies in the Dissected Till and Residuum / Unglaciated Southern Hills and Lowlands Aquifer System. Total thickness of unconsolidated deposits overlying bedrock is commonly 6 to 25 feet. Clay material dominates this unconsolidated aquifer system; however, discontinuous sand or gravel deposits are reported. These deposits are commonly 1 to 3 feet thick. Because of low permeability of surface materials, this system is not considered very susceptible to contamination from surface sources.

Bedrock Aquifer System
The Blue River and Sanders Groups occur as the uppermost bedrock aquifer system over most of the west-central portion of Monroe County. Depth to bedrock is generally between 5 and 30 feet. The Blue River and Sanders Groups Aquifer System is not regarded as a major ground-water resource in the county. Static water levels range from 0 feet to 197 feet below land surface but generally between 15 and 75 feet below surface. Areas of shallow bedrock, especially where joints, fractures, and solution features are present, may allow contamination. These conditions warrant considering the aquifer system to be susceptible to contaminants introduced at and near land surface.

A report pertaining to the nearby Indiana Gas Company site 200 feet to the west of the Subject Property suggests the groundwater flow direction is to the southeast (VFC Document # 47437557). Based on environmental reports for the Josephine Brown Trust Property 75 feet east of the Subject Property, local groundwater flow around the Subject Property is to the south to southeast (VFC Document # 14582194). The regional groundwater flow in the area is predominately to the south in general conformance with surface topography/drainage and the regional attitude of underlying bedrock.

4.4 Historical Use Information on the Property

4.4.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps were searched by *EDR* on April 6, 2023, and reviewed by BCA. Maps covering the Subject Property for the years 1883, 1887, 1892, 1898, 1907, 1913, 1927, 1947, and 1963 were reviewed. Copies of the Sanborn Maps are included in **Appendix F**. The descriptions for each map reviewed are provided below:

Sanborn Maps – 1883 & 1887
A residential dwelling is present on the northeastern corner of the Subject Property. Three structures are built on to the edges of this dwelling. Another small stable is

located on the southwestern corner of the Subject Property.

Sanborn Map - 1892
An additional dwelling is built on the southern edge of the Subject Property.

Sanborn Maps – 1898 & 1907
These maps show the Subject Property to be essentially the same as the 1892 map with the exception of a new stable shown along the western boundary of the Subject Property and a doctor's office is shown in the building on the northeast corner.

Sanborn Map - 1913
This map shows the Subject Property to be essentially the same as the 1907 map with the exception of the appearance of a new building in the northern boundary labelled "lunch" and "fish market".

Sanborn Maps - 1927
This map shows a new structure labeled "Filling Station" located in the central area of the Subject Property. Two (2) gas tanks are labeled in the northeast area of the Site.

Sanborn Maps – 1947
This map shows the filling station moved to the northeast corner of the Site. Three (3) new gas tanks appear in the southeastern area. A battery & ignition service building is visible on the southwestern corner of the Subject Property.

Sanborn Maps – 1963
In this map, the entire Subject Property is depicted as a parking lot.

4.4.2 Aerial Photos

Several aerial photos showing the Subject Property were available through EDR (searched April 6, 2023) and were reviewed by BCA. Aerial photographs for the following years were reviewed: 1939, 1941, 1946, 1952, 1955, 1965, 1967, 1977, 1983, 1986, 1992, 1998, 2005, 2008, 2012, 2016, and 2020. Copies of the aerial photos are included in **Appendix G**. The descriptions for each photo reviewed are written below.

1939 - 1955 Aerial Photographs
These photos indicate that there appear to be two (2) main structures on the Subject Property. The structure on the northeast corner appears to be similar to that of a filling station, but the photo resolution is insufficient to discern much detail.

1965 – 2020 Aerial Photographs
These photos indicate that the Subject Property is being utilized as a parking lot.

4.4.3 City and County Directories

A search of city and county directories was performed by *EDR* on April 10, 2023 and reviewed by BCA. Directories were searched from 1960 (the earliest reviewed) through 2020 for the Subject Property. Results of the search are included in **Appendix H** and summarized in the table below. There were no environmentally significant results found on the Subject Property during the city directory search.

Address	Occupant	Years Listed
216 S. College	KRC Banquet & Catering	2010 - 2017
	City Grille	2000 - 2005
	Reliable Drug Store	1992
	Peoples Drug Co. Inc.	1986
	Haag Drug Co Inc.	1960 - 1981

4.4.4 Ownership History

Chain of Title for the Subject Property was not provided to BCA by the User. Based on the information obtained from the Monroe County Tax Assessor GIS property report card, the Subject Property is currently owned by "SICKS, THOMAS & HELD, NANCY". Information on former owners is listed below:

Parcel #	Owner	Dates
53-05-33-310-243.000-005	SICKS, THOMAS & HELD, NANCY	03/2009 to present
53-05-33-310-243.000-005	SICKS, MARILYN A.	09/1977 to 03/2009
53-05-33-310-243.000-005	WOODY, KATHRYN B	Unknown to 09/1977

No other information regarding previous ownership was found.

4.4.5 Other Records of Historical Use

No other records of historical use were found.

4.5 Historical Use Information on Adjoining Properties

4.5.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps were searched by *EDR* on April 6, 2023 and reviewed by BCA. Maps covering the Subject Property and adjoining properties for the years 1883, 1887, 1892, 1898, 1907, 1913, 1927, 1947, and 1963 were reviewed. Copies of the Sanborn Maps are included in **Appendix F**. The descriptions for each map reviewed are provided below:

Sanborn Maps – 1883 & 1887

These maps show a blacksmith and wood shop north of the Subject Property and a livery adjoining to the west of the Subject Property. This map doesn't include the

area south of the Subject Property.

Sanborn Map - 1892
This map is essentially the same as the 1887 map with the exception that the blacksmith and wood shop north of the Subject Property has been replaced by a billiards hall.

Sanborn Maps – 1898 & 1907
These maps are essentially the same as the 1892 map with the exception that there is a tin shop north of the Subject Property.

Sanborn Map - 1913
This map is essentially the same as the map from 1907 with the exception of Hughes Bro's Lumber & Coal Yard, including a planning mill, adjoining the south boundary of the Subject Property.

Sanborn Map - 1927
This map is essentially the same as the map from 1913 with the exception of Hughes Bro's Lumber & Coal Yard replacing the livery that adjoined the west boundary of the Subject Property.

Sanborn Maps – 1947 & 1963
These maps indicate that an auto garage replaced the tin shop north of the Subject Property. Also, the lumber yard south of the Subject Property was replaced by a parking lot in 1963.

4.5.2 Aerial Photos

Several aerial photos for the area surrounding the Subject Property were available through *EDR* (searched April 6, 2023) and were reviewed by BCA. Aerial photographs for the following years were reviewed: 1939, 1941, 1946, 1952, 1955, 1965, 1967, 1977, 1983, 1986, 1992, 1998, 2005, 2008, 2012, 2016, and 2020. Copies of the aerial photos are included in **Appendix G**. The descriptions for each photo are written below:

1939 – 1955 Aerial Photographs
In these photographs, the structures visible on properties surrounding the Subject Property appear consistent with other images/maps seen. Commercial type structures are visible in all directions surrounding the Subject Property. Contrast and resolution are insufficient to yield significant observations.

1965 Aerial Photograph
In this photograph, the parcel adjoining the south boundary of the Subject Property is being utilized as a parking lot. The parcel adjoining the west boundary of the Subject Property appears in its current configuration.

1967 – 2020 Aerial Photographs

The area immediately surrounding the Subject Property appears essentially the same as its current configuration, with commercial properties to the north, east, and west.

4.5.3 City and County Directories

A search of city and county directories was performed by *EDR* on April 10, 2023 and reviewed by BCA. Directories were searched from 1960 (the earliest reviewed) through 2017 for the area surrounding the Subject Property. Results of the search are included in **Appendix H**. The table below summarizes the occupants of the adjoining and nearby properties which are relevant to this investigation.

Address	Occupant	Years Listed
108 S. College Ave.	Davis Cleaners & Tailors	1960
211 S. College Ave.	Jerry's Diagnostic Center (Auto Repair)	1986-1995
211 S. College Ave.	Frosty's Dodge Inc. (Auto)	1981
211 S. College Ave.	Sciscoe Dodge Inc. (Auto Dealer)	1971-1976
211 S. College Ave.	Brown Paul Motor Sales (Auto Dealer)	1960-1968
223 S. College Ave.	Brown's Standard Service Gas Station	1968
223 S. College Ave.	Walker Standard Service Station (Gas Station)	1960-1964
301 S. College Ave.	Bloomington Tire Co.	1964-2005
301 S. College Ave.	Bloomington Auto Service Center	1971-1981
302 S. College Ave.	Tom O'Daniel Motor Sales	1964-1986
104 W. 4th St.	Bloomington Fire Department	1964 - 1992
210 W. 4th St.	PPG Industries	1968-1971

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

A site reconnaissance was conducted on April 6, 2023 by Mr. Jacob Teuschler, Project Manager for BCA. The site visit included observation of the Subject Property and adjoining sites for environmentally significant items, such as transformers, storage tanks, unusual cracks or ground discoloration, as well as significant commercial or industrial activity. Photographs were taken of conditions at the time of the site visit. During the site visit evaluation of adjoining properties were limited to observations from public rights-of-way or other public areas.

Notes of observations made during the site visit were made in a notebook and/or marked on a site map. Photographs were taken of items of interest.

5.2 General Site Setting

The Subject Property is situated in the City of Bloomington in a commercial area.

5.3 Exterior Observations

The Subject Property is currently utilized as an approximately 17,424 ft^2 parking lot (photos 1-3). City water, electricity, gas, and sewer services are currently available to the Subject Property.

The following were **not observed** to be present during the exterior reconnaissance of the Subject Property:

- Use or storage of hazardous chemicals.
- Petroleum products (including vent pipes and fill ports)
- Above Ground Tanks (ASTs)
- Underground Storage Tanks (USTs)
- Solvents
- Degreasers
- Drums
- Drains
- Unidentified containers
- Ground staining
- Corrosion
- Sumps
- Pits
- Ponds
- Lagoons
- Stained vegetation
- Solid waste
- Wastewater systems
- Air emissions
- Odors
- Pools of liquid

- Wells
- Septic systems
- Electrical Transformers

5.4 Interior Observations

There are no interior spaces on the Subject Property.

5.5 Observations on Adjacent Properties

Commercial retail outlets and a hotel adjoin the Subject Property across 4th Street to the north/northwest, commercial services adjoin to the east across S. College Ave., a parking lot adjoins the Subject Property to the south, and a commercial office building adjoins to the west of the Subject Property (photos 4-9).

- One (1) set of three pole-mounted electrical transformers were observed on the parcel adjoining the Subject Property to the west. The transformers were over a paved surface and the exterior of the transformers were stained black. No labeling or other indication of PCB content was visible on the transformers (photos 10-11).

The following were **not observed** to be present on adjoining properties during the reconnaissance of the Subject Property:

- Use or storage of hazardous chemicals
- Petroleum products
- ASTs
- USTs
- Solvents
- Degreasers
- Drums
- Drains
- Unidentified containers
- Ground staining
- Corrosion
- Sumps
- Pits
- Ponds
- Lagoons
- Stained vegetation
- Solid Waste
- Wastewater systems
- Septic Systems
- Air emissions
- Odors
- Pools of liquid
- Wells - potable or monitoring wells

6.0 INTERVIEWS

6.1 Interview with Site Owner

The Subject Property is currently owned and managed by Thomas Sicks & Nancy Held. Multiple attempts were made by BCA to contact the site owners for interviews and all were unsuccessful.

6.2 Interview with Site Manager

See Section 6.1 above.

6.3 Interview with Site Occupant

See Section 6.1 above.

6.4 Interview with Local Government Official

BCA contacted Monroe County Health Department (4/10/2023) requesting any information they might have concerning environmental issues for the Subject Property. Mr. Mike Kuzemka, Environmental Health Services Manager with the Monroe County Health Department, responded (4/11/2023) and indicated that they had one (1) report on file regarding a complaint. The report was released to BCA on 4/17/2023 and did not contain environmentally significant issues at the Subject Property.

6.5 Interview with Others

Mr. Alex Crowley, Director, Economic & Sustainable Development Department, City of Bloomington, and representative for Bloomington Redevelopment Commission, was interviewed via e-mail on April 11, 2023. Mr. Crowley indicated that he has no knowledge of any environmental cleanup liens or activity and land use limitations (AULs) associated with the Subject Property. Mr. Crowley stated that the purchase price for the property does reflect fair market value. Mr. Crowley is aware of the past uses of the property; however, he is not aware of any specific chemicals used, does not know of any spills or chemical releases, and is not aware of any environmental cleanups at the property. Mr. Crowley indicated that he is unaware of any obvious indicators of the presence or likely presence of a release or releases on the property. Mr. Crowley completed the AAI User Questionnaire (dated 4/11/2023). A signed copy of the questionnaire is provided in **Appendix C**.

7.0 EVALUATION

7.1 Findings

The ASTM Standard defines the term recognized environmental condition (REC) as "the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

Phase I findings identify known or suspected environmental conditions associated with the property, including recognized environmental conditions (REC), controlled recognized environmental conditions (C-REC), historical recognized environmental conditions (H-REC), vapor encroachment conditions (VEC) and *de minimis* conditions, among other environmental conditions. *De minimis* conditions are those that are judged to not to present a material risk of harm to health or the environment. Controlled RECs include past releases that have been addressed to the satisfaction of the applicable regulatory authority, with contaminants allowed to remain in place subject to the implementation of required controls. Historical RECs include records of past releases that have been remediated to the satisfaction of the governing regulatory agency. VECs are potential releases that involve volatile organic compounds that could result in vapor intrusion to structures on the Subject Property. BCA's opinions regarding each of the findings below are listed in Section 7.2. The following environmental conditions were found during this investigation:

1. Parking Lot (Subject Property), 216 S. College Avenue
   The Subject Property was historically utilized as a filling station from 1927 until it was converted into a parking lot between 1955 and 1963. In total, five (5) gas tanks were observed on historical fire insurance maps of the Subject Property. The Subject Property was still being utilized as a parking lot during the Site reconnaissance.

   A Phase II ESA was conducted on the Subject Property in 2019 (BCA, 2019b). A total of two (2) soil and groundwater probes were advanced at the Subject Property and soil and groundwater were sampled for VOCs, PAHs, SVOCs, and metals. The results of the sampling and analyses confirmed that soil and groundwater on the Subject Property had been impacted by the historical handling and distribution of petroleum products. Most notable was the presence of petroleum related compounds in the groundwater at the two (2) probes. Benzene, 1-methylnaphthalene, and naphthalene were detected on the Subject Property at concentrations exceeding the R2 Residential HHL. Regarding soils, arsenic, benzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene were detected at concentrations exceeding the RCG Migration to Groundwater (MTGW) SLs.

- The detection of high concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the Phase II ESA in 2019 is a REC and a VEC.

- The historical utilization of the Subject Property as a gasoline filling station that operated on the Subject Property with multiple gasoline tanks from the 1920s through at least the late 1950s with no documentation of proper closure is a REC and a VEC.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is a REC.

2. Josephine Brown Trust Property, 211 & 213 S. College Avenue
This site, located adjoining southeast of the Subject Property across S. College Avenue, historically operated as an automotive dealership, auto repair shop, gasoline service station, and automotive rental facility. A 1997 site remediation report indicated that seven (7) underground storage tanks were removed from the site in 1995, and a total of 1,600 tons of contaminated soil were removed from the site for disposal. In addition, a groundwater monitoring well on the site indicated elevated levels of PCE and TCE in groundwater. However, the site received a Site Status Letter from IDEM in October 1998 granting site closure with no restrictions for redevelopment. Since this site is downgradient to cross-gradient from the Subject Property, it is unlikely to have materially affected the environmental conditions of the Subject Property. This is a *de minimis* condition with respect to the Subject Property.

3. The following nearby sites were listed in the EDR report as being historical drycleaner sites:

    a. *College Laundry, 121 S. College Ave.* - was located 160' northeast of the Subject Property. It was referenced in the 1938 and 1945 Polk City Directories.

    b. *Sam Moy (College Ave Laundry), 119 S. College Ave.* - was located 180' northeast of the Subject Property. It was referenced in the 1913, 1916, 1918, 1920, 1922, 1929, 1931, and 1934 Caron's City Directories. It was also shown in the 1913 Sanborn Map.

    c. *Meister & Kinser, 115 S. College Ave.* - was located 220' northeast of the Subject Property. It was referenced in the 1922 and 1929 Caron's City Directories.

    d. *Beem & Morris, 108 S. College Ave.* - was located 230' north of the Subject Property. It was referenced in the 1929, 1931, and 1934 Caron's City Directories. It was also referenced in the 1945, 1948, 1950,

1952, and 1955 Polk City Directories.

No other information was found for each of these sites, and it is unknown if they were drycleaners and/or ever used/handled chlorinated solvents. However, chlorinated solvents were not detected in any of the soil/groundwater sampling probes installed during the 2019 BCA Phase II ESA (BCA, 2019b), therefore, it is unlikely that a release from any of these sites (if any) have materially affected the environmental conditions of the Subject Property. They are considered *di minimis* with respect to the Subject Site.

4. Other Sites
   In addition to the sites listed above, two (2) Federal CERCLIS NFRAP (SEMS – Archive) sites, two (2) RCRA Corrective Action sites, two (2) RCRA TSD sites, 22 State Listed Cleanup sites, six (6) Solid Waste Landfill or solid waste disposal facility sites, 19 LUST sites, two (2) Voluntary Cleanup sites, 27 State and U.S. Brownfield Program sites, and 41 historic drycleaner sites are located within the respective search radii of the ASTM and AAI Standard. However, these sites are located down-gradient from the Subject Property, have received No Further Action status, or are low priority w/ soil contamination only. As such, these sites are considered *de minimis* conditions with respect to the Subject Property.

7.2 Opinion

7.2.1 Contaminant Migration

Potentially, releases that occur on and near the Subject Property are likely to migrate vertically until contact with groundwater and then laterally in the down-gradient direction. Based on local surface topography, groundwater flow at the Subject Property is likely to be to the south-southeast toward Clear Creek, located 0.4 miles southeast of the Subject Property.

Because of the above considerations, releases at properties located to the northwest (up-gradient) of the Subject Property could potentially have an impact on the site. Releases at properties immediately adjoining to the northeast and southwest (cross-gradient) of the Subject Property could impact the Subject Property only if they are very near; however, releases farther away in these directions would not. Because radial spread of contaminants is common at the source, especially in the shallow soil or smear zone at the top of the water table, releases that took place very near the Subject Property may have affected it even if the site is down-gradient (southeast) of the Subject Property.

Vapors from releases to the groundwater could migrate through the subsurface via loose and unconsolidated soils, utility conduits and trenches, and disturbed or excavated soils. Vapors can accumulate beneath structures, asphalt and concrete pads or parking lots, and in poorly ventilated buildings. Vapors from sources and impacted groundwater near the Subject Property could impact structures around

the Subject Property. The current IDEM guidance indicates potential for vapor intrusion from groundwater impacted above screening levels at a lateral distance of 25-feet for petroleum and 100-feet for chlorinated volatile organic compounds.

7.2.2 Evaluation of Identified Environmental Conditions

This section presents BCA's opinions regarding RECs and VECs identified in Section 7.1.

Parking Lot (Subject Property), 216 S. College Avenue

The Subject Property was historically utilized as a filling station from 1927 until it was converted into a parking lot between 1955 and 1963. In total, five (5) gas tanks were observed on historical fire insurance maps of the Subject Property. The Subject Property was still being utilized as a parking lot during the Site reconnaissance.

A Phase II ESA was conducted on the Subject Property in 2019 (BCA, 2019b). The results of the sampling and analyses confirmed that soil and groundwater on the Subject Property had been impacted by the historical handling and distribution of petroleum products.

- The detection of high concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the 2019 Phase II ESA (BCA, 2019b) is likely related to the historical utilization of the Subject Property as a gasoline filling station. The concentrations of impacts exceeded R2 guidelines and have the potential to cause vapor intrusion issues.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is an environmental concern. However, no impacts from this operation were detected in the subsurface during the 2019 Phase II ESA (BCA, 2019b).

7.3 Conclusions

We have performed a Phase I Environmental Site Assessment of the Subject Property located at 216 S. College Ave., Bloomington, Indiana in conformance with the scope and limitations of ASTM Practice E1527-21. Exceptions to, or deletions from this practice are described in Section 2.5 of this report. Detailed findings and opinions regarding the Subject Property and surrounding sites are included in Sections 7.1 and 7.2 above.

Parking Lot (Subject Property), 216 S. College Avenue

The Subject Property was historically utilized as a filling station from 1927 until it was converted into a parking lot between 1955 and 1963. In total, five (5) gas tanks were observed on historical fire insurance maps of the Subject Property. The Subject Property was still being utilized as a parking lot during the Site

reconnaissance.

A Phase II ESA was conducted on the Subject Property in 2019 (BCA, 2019b). The results of the sampling and analyses confirmed that soil and groundwater on the Subject Property had been impacted by the historical handling and distribution of petroleum products. Most notable was the presence of petroleum related compounds in the groundwater at the two (2) probes. Benzene, 1-methylnaphthalene, and naphthalene were detected on the Subject Property at concentrations exceeding the R2 Residential HHL. Regarding soils, arsenic, benzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene were detected at concentrations exceeding the RCG Migration to Groundwater (MTGW) SLs.

- The detection of elevated concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the Phase II ESA in 2019 is a REC and a VEC.

- The historical utilization of the Subject Property as a gasoline filling station that operated on the Subject Property with multiple gasoline tanks from the 1920s through at least the late 1950s with no documentation of proper closure is a REC and a VEC.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is a REC.

7.4 Deviations and Data Gaps

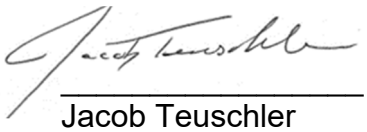
There have been no data gaps or deviations from the scope of work requested by the client during the preparation of this report.

7.5 Additional Services

No additional services beyond the scope of the ASTM Standard were provided in the preparation of this Phase I report. Examples of possible non-scope services are listed in Section 8.2.

7.6 Signatures of Environmental Professionals

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Jacob Teuschler
Project Manager
May 31, 2023

8.0 NON-SCOPE SERVICES

8.1 Recommendations

Based on the conclusions of this Phase I ESA, BCA makes the following recommendations:

Conducting further investigation to address the RECs and VECs identified in Section 7 above.

8.2 Other Non-Scope Considerations

No other non-scope services beyond the recommendations above were provided in the preparation of this Phase I report. Additional services can include Business Environmental Risks (BERs) such as asbestos and lead-based paint surveys, radon gas assessment or EPA Radon Map, lead in drinking water, to name a few. Beyond BERs, other non-scope services can include FEMA flood plains maps, wetland inventory maps, and/or polyfluoroalkyl substances (PFAS) evaluation.

9.0 REFERENCES

1. BCA Environmental Consultants, LLC (BCA, 2019a), *Phase I Environmental Site Assessment, Commercial Building, 216 South College Avenue, Bloomington, IN 47404*, May 29, 2019

2. BCA Environmental Consultants, LLC (BCA, 2019b), *Phase II Environmental Site Assessment, Commercial Building, 216 South College Avenue, Bloomington, IN 47404*, July 03, 2019

3. Fenelon, J. M., Hydrogeologic Atlas of Aquifers in Indiana. U. S. Geologic Survey Water-Resources Investigations Report 92-4142. United States Geologic Survey, Indianapolis, Indiana, 1994.

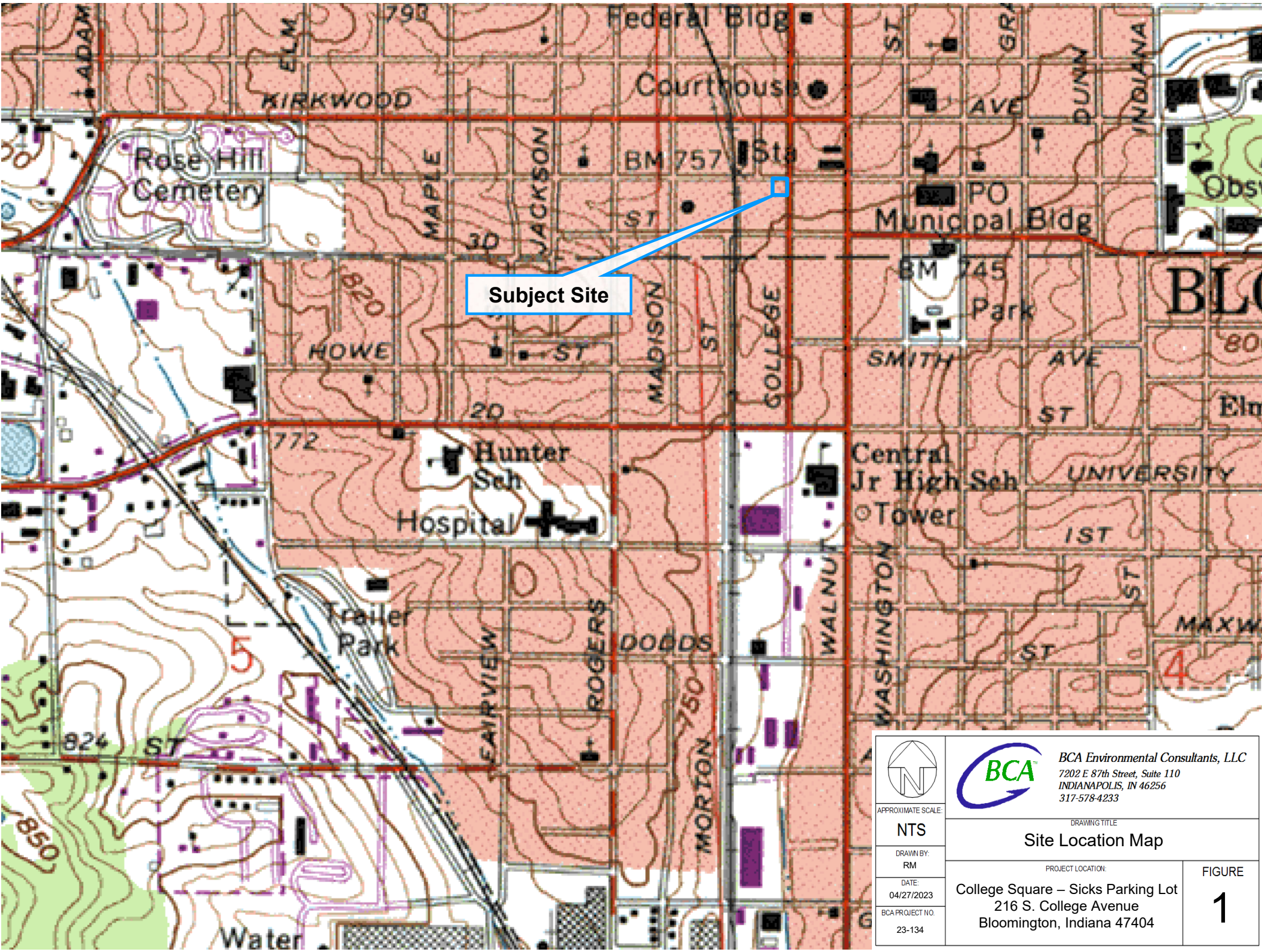
4. Gray, H.H., *Physiographic Divisions of Indiana, Indiana Geological Survey Special Report 61 (2000)*

5. Monroe County, Indiana GIS Mapping, *Elevate™ Monroe County, Indiana - Available online at https://monroein.elevatemaps.io/*

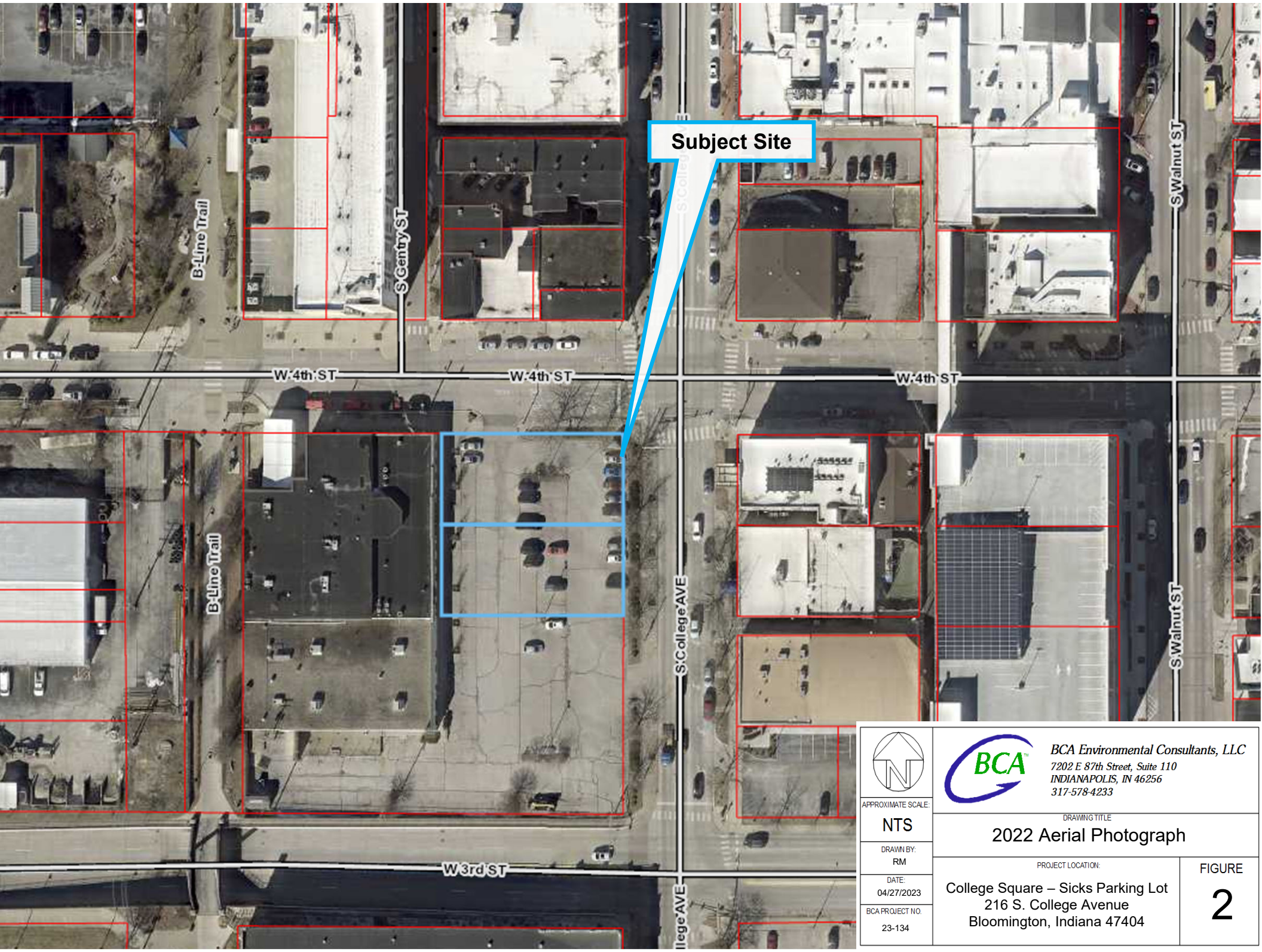
6. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture, *Web Soil Survey.* Available online at: http://websoilsurvey.nrcs.usda.gov/ Accessed 4/06/2023.

Figures

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404



APPROXIMATE SCALE: NTS	BCA Environmental Consultants, LLC 7202 E 87th Street, Suite 110 INDIANAPOLIS, IN 46256 317-578-4233
DRAWN BY: RM	DRAWING TITLE: Site Location Map
DATE: 04/27/2023	PROJECT LOCATION: College Square – Sicks Parking Lot 216 S. College Avenue Bloomington, Indiana 47404
BCA PROJECT NO. 23-134	FIGURE 1



BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
INDIANAPOLIS, IN 46256
317-578-4233

APPROXIMATE SCALE: NTS

DRAWN BY: RM

DATE: 04/27/2023

BCA PROJECT NO. 23-134

DRAWING TITLE

2022 Aerial Photograph

PROJECT LOCATION:

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

FIGURE 2

Photographs

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

Photo 1: Subject Site – 216 S. College Ave., College Square – Sicks Parking Lot, Facing north.

Photo 2: Subject Site – Facing southwest.

Photo 3: Subject Site – Facing east.

Photo 4: Adjoining Site – 216 S. College Ave., Commercial Lot, Facing northeast.

Photo 5: Adjacent Site – Commercial properties across 4th Street north of the Subject Property.

Photo 6: Adjacent Site – Commercial property across 4th Street and College Ave. northeast of the Subject Property.

Photo 7: Adjacent Site – Commercial property across College Ave. east of the Subject Property.

Photo 8: Adjacent Site – Commercial property across College Ave. southeast of the Subject Property.

Photo 9: Adjoining Site – 216 S. College Ave., Commercial Lot, Facing southeast

Photo 10: Adjoining Site – 216 S. College Ave., Pole-mounted transformers, Facing northwest

Photo 11: Adjoining Site – 216 S. College Ave., Pole-mounted transformers, Facing northwest.

Appendix A

Qualifications of Environmental Professionals

Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

JACOB TEUSCHLER, PROJECT MANAGER

Jacob Teuschler joined BCA as an Environmental Scientist in the summer of 2013. Mr. Teuschler has a Biology and Chemistry degree from the University of the Cumberlands. He has over 15 years of comprehensive environmental consulting experience performing a diverse range of environmental studies and overseeing related projects from inception to completion. Mr. Teuschler is experienced with site characterizations and environmental monitoring; remedial designs, engineered system optimization and maintenance, tank removals, permitting and reporting, soil, groundwater, and air sampling, analytical (health and ecological) site and risk assessments, sampling and safety protocols, corrective action plans, closure processes, habitat restorations and wetland delineations. Mr. Teuschler has prepared Phase I and Phase II ESA's, site characterization reports, corrective action plans, permit applications, NPDES reports, various closure reports, and demolition reports. Mr. Teuschler is a Licensed Asbestos Building Inspector.

Appendix B

Environmental Lien and AUL Search

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

216 S. College - Parking Lot
216 S. College Ave
Bloomington, IN 47404

Inquiry Number: 7300512.7
April 06, 2023

EDR Environmental Lien and AUL Search

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

216 S. College Ave
216 S. College - Parking Lot
Bloomington, IN 47404

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

RESEARCH SOURCE

Source 1:

Monroe Recorder
Monroe, IN

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Personal Representatives Deed
Title is vested in:	Thomas Sicks & Nancy Held
Title received from:	Thomas Sicks et al
Deed Dated	12/29/2008
Deed Recorded:	3/2/2009
Book:	NA
Page:	NA
Volume:	NA
Instrument:	2009003181
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	NA
Legal Description:	see exhibit
Legal Current Owner:	Thomas Sicks & Nancy Held
Parcel # / Property Identifier:	013-40720-00
Comments:	see exhibit

Deed Exhibit 1

3

BILLIE J. BREAUX
MARION COUNTY AUDITOR
988748 JAN 13 09
DULY ENTERED FOR TAXATION
SUBJECT TO FINAL ACCEPTANCE
FOR TRANSFER

2009003181 PERS REP $20.00
03/03/2009 12:42:00P 3 PGS D
Monroe County Recorder IN
Recorded as Presented

Marion County Assessor

PERSONAL REPRESENTATIVE'S DEED

Thomas Sicks and Nancy Held are the Co-Personal Representatives of the Estate of Marilyn A. Sicks, deceased. This estate is pending as Cause Number 49D08-0802-EU-006540 in Marion County, Indiana. The Co-Personal Representatives, by virtue of the power given a personal representative under Indiana law, for good and sufficient consideration conveys to Thomas Sicks and Nancy Held, as tenants in common, the following described real estate located in Monroe County, State of Indiana:

> In Lots Numbers 43 and 44 of the Original town (now city of Bloomington, Monroe County, Indiana) as shown by the recorded plat thereof on file in the office of the Recorder of said county; and also the interest of Lessors in and to strips of ground of the even width of 6 feet laying West and South of and immediately adjacent to the entire West and South sides of the In Lots above described; said strips being alleys to be vacated by proceedings of the Owner, as herein after provided. 013-40720-00

More commonly known as: Southwest Corner of 4th and College, Bloomington, Indiana

IN WITNESS WHEREOF, Thomas Sicks and Nancy Held have hereunto set their hand and seal this 29th day of December, 2008.

DULY ENTERED
FOR TAXATION

MAR 02 2009

Auditor Monroe County, Indiana

Thomas Sicks

Nancy Held

STATE OF INDIANA)
) SS:
COUNTY OF HAMILTON)

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared Thomas Sicks and acknowledged the execution of said deed to be his voluntary act and deed for the uses and purposes expressed therein.

WITNESS MY HAND AND SEAL THIS 29th day of December, 2008.

Zita S Patel
ZITA S PATEL, Notary Public

County of Residence: HAMILTON My Commission Expires: 02 May, 2009.

STATE OF INDIANA)
) SS:
COUNTY OF HAMILTON)

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared Nancy Held and acknowledged the execution of said deed to be her voluntary act and deed for the uses and purposes expressed therein.

WITNESS MY HAND AND SEAL THIS 29th day of December, 2008.

Zita S Patel
ZITA S PATEL, Notary Public

County of Residence: HAMILTON My Commission Expires: 02 May, 2009.

Send Tax Statements to: Thomas Sicks, 14443 Lansing Place, Fishers, IN 46038-5253.

Prepared by: John A. Cremer, Attorney at Law, CREMER & CREMER, 251 E. Ohio Street, Suite 915, Indianapolis, IN 46204.

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law. John A. Cremer.

MISCELLANEOUS EXHIBITS

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

MEMO TO FILE

Date: March 16, 2023

From: Timothy E. Veatch, Petroleum Branch Chief

Re: Petroleum Eligibility
College Square
216 South College Avenue
Bloomington, Monroe County, Indiana
Brownfields #4190505

On May 19, 2019 the Indiana Department of Environmental Management (IDEM) made a determination that the former College Square (Site) located at the address noted above was eligible for federal brownfield grant funds to conduct assessment activities at the Site. (The May 19, 2019 Petroleum Eligibility Determination is attached as Exhibit A.) Those funds were expended for assessment of the Site in July 2019. The Site consists of two parcels; however, additional funds are requested for the parcel identified by #53-05-33-310-243.000-005 only. The parcel is no longer associated with the address noted above and is now associated with North College Avenue. The ownership of the parcel has not changed since the original eligibility and the parcel continues to be utilized as a parking lot. Additional funds are requested to conduct further site assessment activities to delineate petroleum impacts in soil and groundwater identified during the July 2019 investigation. The purpose of this memoranda is to serve as IDEM's determination that the Site remains eligible for U.S. EPA brownfields funds.

The Program has reviewed the current eligibility requirements for use of federal petroleum brownfields grant funding. The IDEM is unaware of any reasons why the City of Bloomington cannot move forward with the assessment at the Site using federal brownfield grant funds. If you have any questions, please call Susie Holmes at 317-232-6772 or email at sholmes1@ifa.in.gov.

Sincerely,

Timothy E. Veatch, Branch Chief
Petroleum Branch
Office of Land Quality

cc: Matt Didier, U.S. EPA, Region 5 (electronic copy)
Timothy E. Veatch, Petroleum Branch (electronic copy)
Andrea Robertson Habeck, Indiana Brownfields Program (electronic copy)

Exhibit A

May 19, 2019 Petroleum Eligibility Determination

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov
Eric J. Holcomb
Governor
Bruno L. Pigott
Commissioner

May 29, 2019

Brian Payne
City of Bloomington
401 N Morton Street
Bloomington, Indiana 47404

Re: Petroleum Eligibility
College Square
216 S. College Avenue
Monroe County, Indiana
BFD #4190505

Dear Mr. Payne:

This letter acknowledges that the City of Bloomington (City), pursuant to U.S. EPA grant requirements, notified the Indiana Department of Environmental Management (IDEM) of its plans to perform site assessment activities at the above referenced site (Site). The City provided information, including on ownership, regarding the potentially petroleum-contaminated Site and requested that IDEM make the necessary determination on eligibility for federal brownfields funding. Based on the information provided with the request or otherwise reviewed by IDEM, and using both the applicable federal guidelines and Indiana law and related policies, IDEM has determined the following with respect to the request:

I) The Site is not listed in IDEM's databases relating to underground storage tanks (USTs), and there are no reported releases for the Site. The Site is not being cleaned up by funds from the state Excess Liability Trust Fund (ELTF) or the federal Leaking Underground Storage Tank (LUST) trust fund, and is not subject to a response under the Oil Pollution Act.

II) IDEM is unaware that any responsible party (RP) has been identified through:

(a) A judgment in a court of law or an administrative body that would require that party assess, investigate or remediate the Site; or,

(b) A filed enforcement action brought by federal or state authorities, or is party to a citizen suit, that would, if successful, require that party to assess, investigate or clean up the Site; or,

(c) A citizen suit, contribution action or other third party claim brought against the current or immediate past owner for the site that would, if successful, require the assessment, investigation, or remediation of the Site.

III) The Site is not subject to any order issued under 9003(h) of the Solid Waste Disposal Act.

IV) The current owners, Rbowa, LLC, and Thomas Sicks and Nancy Held, (Current Owners), and the immediate past owners, Indiana University Foundation and Marilyn A. Sicks (Past Owners), did not dispense or dispose of, or own the Site during the dispensing or disposal of, any contamination at the Site and have taken reasonable steps with regard to stopping any potential petroleum releases, prevented any threatened future releases of petroleum and prevented or limited exposure to any previously released petroleum contamination at the Site. The Site consists of two parcels totaling 1.6 acres of land. The Current and Past Owners used the Site as a commercial parking lot since prior to 1962. Environmental concerns associated with the Site is the past usage as gasoline filling stations and automotive repair facilities in the 1920s through 1940s. Refer to the table below for a description of the Site's parcels, uses and ownerships.

Parcel and uses	**Current Owner**	**Dates**	**Immediate Past Owner**	**Dates**
53-05-33-310-240.000-005 (Commercial parking lot)	Rbowa, LLC	3/1/1995 - present	Indiana University Foundation	Unknown – 3/1/1995
53-05-33-310-243.000-005 (Commercial parking lot)	Thomas Sicks & Nancy Held	3/2/2009 - present	Marilyn A. Sicks	9/27/1977 – 3/2/2009

V) The City is a volunteer that is not potentially liable for the suspected petroleum contamination because it has not dispensed or disposed of or owned the property during the dispensing or disposing of petroleum or petroleum product at the Site. It has also not exacerbated the contamination at the Site and has taken reasonable steps with regard to the contamination at the Site.

VI) No information pertaining to RPs (or the financial viability of any RPs) was provided to IDEM as part of this request, and IDEM has no additional information suggesting there is a financially viable RP that will address contamination at the Site.

The information reviewed above is consistent with the determinations set forth in Section 101(39)(d)(II)(bb) of the Comprehensive Environmental Response, Compensation, and Liability Act. IDEM is unaware of any reasons why the City cannot move forward with the assessment at the Site using federal brownfield grant funds. If you have any questions, please call Katie Erny at 317-234-8099 or email at KErny@ifa.in.gov.

Sincerely,

John Morris, Branch Chief
Underground Storage Tanks Branch
Office of Land Quality

cc: Diane Spencer, U.S. EPA, Region 5 (electronic)
Andrea Robertson Habeck, Indiana Brownfields Program (electronic)

Appendix C

All Appropriate Inquiry User Questionnaire

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

ALL APPROPRIATE INQUIRY USER QUESTIONAIRE

PROJECT DESCRIPTION: Parking Lot PROJECT NO: 23-134

SITE ADDRESS: 216 S. College Avenue, Bloomington Indiana

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry"* is not complete.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the *property* under federal, tribal, state or local law?

NOTE 1— In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Yes No

(2.) Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law?

Yes No

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? If yes, please describe as specifically as possible.

Yes No

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

(a.) Does the purchase price being paid for this *property* reasonably reflect the fair market value?

Yes No

(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

Yes No
If yes, please explain:

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30)
Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example,
(a.) Do you know the past uses of the *property*?
Yes No

(b.) Do you know of specific chemicals that are present or once were present at the *property*?
Yes No

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?
Yes No

(d.) Do you know of any environmental cleanups that have taken place at the *property*?
Yes No

(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the p*roperty*?
Yes No
If yes, please describe as specifically as possible.

4/11/2022
Signature Date
Alex Crowley, Director, Economic & Sustainable Development
Printed Name and Title

Appendix D

EDR Data Search

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

216 S. College - Parking Lot
216 S. College Ave
Bloomington, IN 47404

Inquiry Number: 7300512.2s
April 05, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

COORDINATES

Latitude (North):	39.1653020 - 39° 9' 55.08''
Longitude (West):	86.5352710 - 86° 32' 6.97''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	540149.0
UTM Y (Meters):	4335015.0
Elevation:	753 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	13159151 BLOOMINGTON, IN
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140705
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	COLLEGE SQUARE	216 S COLLEGE AVE	IN BROWNFIELDS		TP
A2	COMMERCIAL PROPERTY	216 S. COLLEGE AVENU	US BROWNFIELDS, FINDS		TP
A3	JERRYS DIAGNOSTIC CT	211 S COLLEGE	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Lower	153, 0.029, ESE
A4	COLLEGE LAUNDRY	121 S COLLEGE AVE	IN DRYCLEANERS	Higher	159, 0.030, NE
A5	WOUNDERLAB MUSEUM	300 W. 4TH ST.	IN SCP, IN SPILLS	Higher	166, 0.031, WNW
A6	WONDERLAB MUSEUM	308 W 4TH ST	IN SCP	Higher	177, 0.034, WNW
A7	WONDERLAB MUSEUM	308 W FOURTH ST	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Higher	177, 0.034, WNW
A8	SAM MOY	119 S COLLEGE AVE	IN DRYCLEANERS	Higher	178, 0.034, NE
B9	MEISTER & KINSER	115 S COLLEGE AVE	IN DRYCLEANERS	Higher	217, 0.041, NNE
B10	FREIGHT DEPOT	217 W KIRKWOOD AVE	IN AUL, IN BROWNFIELDS	Higher	224, 0.042, NNW
B11	BEEM & MORRIS	108 S COLLEGE AVE	IN DRYCLEANERS	Higher	228, 0.043, North
C12	4TH STREET GARAGE	105 W. 4TH STREET	US BROWNFIELDS	Higher	269, 0.051, East
C13	ADAM WASON, BLOOMING	105 W 4TH ST	IN BROWNFIELDS, IN NPDES	Higher	269, 0.051, East
D14	BLOOMINGTON TIRE CO	301 S COLLEGE	IN UST, IN AUL, IN BROWNFIELDS, RCRA NonGen / NLR,...	Lower	281, 0.053, SSE
B15	RYORS & BEEM	103 S COLLEGE AVE	IN DRYCLEANERS	Higher	340, 0.064, NNE
C16	JUAN SELLS - 222 WAL	222 S. WALNUT	US BROWNFIELDS	Lower	355, 0.067, ESE
C17	JUANSELLS REALTY	222 S WALNUT ST	IN BROWNFIELDS	Lower	355, 0.067, ESE
B18	DAVIS & HUCKLEBERRY	125 W KIRKWOOD AVE	IN DRYCLEANERS	Higher	393, 0.074, NNE
B19	STEINMETZ & PEEBLES	101 W KIRKWOOD AVE	IN DRYCLEANERS	Higher	401, 0.076, NE
D20	ODANIEL TOM FORD	302 S COLLEGE AVE	RCRA NonGen / NLR, IN MANIFEST	Lower	416, 0.079, SSE
D21	TOM O'DANIEL INC	302 S COLLEGE	IN LUST, IN UST	Lower	416, 0.079, SSE
D22	BLOOMINGTON FORD	302 S COLLEGE AVE	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Lower	416, 0.079, SSE
E23	EXPERT TIRE	219 S WALNUT ST	IN AUL, IN SCP	Lower	452, 0.086, ESE
C24	SHERWIN WILLIAMS CO	205 S WALNUT ST	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Higher	460, 0.087, East
F25	INDIANA GAS COMPANY	205 S MADISON ST	IN UST	Higher	474, 0.090, West
F26	INDIANA GAS/BLOOMING	205 S MADISON STREET	EDR MGP	Higher	474, 0.090, West
F27	IGC BLOOMINGTON SVC	205 S MADISON ST	IN VCP, RCRA NonGen / NLR, FINDS, ECHO, IN...	Higher	474, 0.090, West
28	310 S. COLLEGE PARKI	310 S. COLLEGE AVENU	US BROWNFIELDS	Lower	486, 0.092, South
D29	COURTESY CLEANERS	312 E WALNUT	IN DRYCLEANERS	Lower	491, 0.093, SE
G30	QUALITY CLEANERS	107 N COLLEGE AVE	IN DRYCLEANERS	Higher	520, 0.098, North
E31	3RD ST SHELL	301 S WALNUT	EDR Hist Auto	Lower	530, 0.100, ESE
E32	EQUILON ENTERPRISES	301 S WALNUT ST	IN AUL, IN SCP, IN BROWNFIELDS, RCRA NonGen / NLR,...	Lower	530, 0.100, ESE
E33	SHELL DEALER BLOOMIN	301 S WALNUT ST	IN LUST, IN UST	Lower	530, 0.100, ESE
H34	BANK ONE INDIANA	304 W KIRKWOOD AVE	IN AUL, IN SCP, IN VCP, FINDS	Higher	565, 0.107, NW
H35	THE FOUNDRY AT 304 L	304 W KIRKWOOD	IN MANIFEST	Higher	565, 0.107, NW
H36	THE FOUNDRY	304 WEST KIRKWOOD	IN SCP	Higher	565, 0.107, NW
H37	THE FOUNDRY AT 304 L	304 W KIRKWOOD	RCRA-VSQG	Higher	565, 0.107, NW
G38	SERVICE CLEANERS	113 N COLLEGE AVE	IN DRYCLEANERS	Higher	586, 0.111, North
I39	SKIRVIN W. H.	317 S WALNUT ST	IN DRYCLEANERS	Lower	586, 0.111, SE

MAPPED SITES SUMMARY

Target Property Address:
216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J40	WEAVER CLEANING & TA	106 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	629, 0.119, NE
E41	FLEENER BUILDING	112 E 3RD ST	IN SCP, IN BROWNFIELDS, IN SPILLS, RCRA NonGen /...	Lower	658, 0.125, ESE
E42	EASTLAND CLEANERS IN	112 E 3RD ST	EDR Hist Cleaner	Lower	658, 0.125, ESE
J43	COOMBS LOGAN L	106 N WALNUT ST	IN DRYCLEANERS	Higher	685, 0.130, NE
G44	HAZEL CLEANERS	215 W 6TH ST	IN DRYCLEANERS	Higher	692, 0.131, North
J45	SKIRVIN W. H.	109 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	694, 0.131, NE
J46	TINY TOT DIAPER SERV	108.5 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	707, 0.134, ENE
J47	RYORS DRY CLEANING	111 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	710, 0.134, NE
K48	MC CO INC	219 W SIXTH ST	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Higher	714, 0.135, North
K49	HHI YELLOW CAB LLC	219 W 6TH ST	IN LUST, IN UST	Higher	714, 0.135, North
I50	CROSSTOWN CLEANERS	116 E 3RD ST	IN ASBESTOS, IN DRYCLEANERS	Lower	720, 0.136, ESE
I51	NORDBERGS PROPERTY	329 S WALNUT	IN LUST, IN AUL	Lower	721, 0.137, SE
L52	BIG O PROPERTIES	340 S WALNUT ST	IN BROWNFIELDS	Lower	758, 0.144, SSE
J53	MANITORIUM THE	119 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	777, 0.147, NE
K54	BELL & SON	204 W 6TH ST	IN DRYCLEANERS	Higher	782, 0.148, North
I55	LEONARD'S LINEN SERV	316 S WASHINGTON ST	IN DRYCLEANERS	Lower	782, 0.148, SE
L56	SUPERIOR CLEANERS &	342 S WALNUT ST	IN DRYCLEANERS	Lower	788, 0.149, SSE
M57	BLOOMINGTON LAUNDERE	200 E 3RD ST	IN DRYCLEANERS	Lower	795, 0.151, ESE
J58	SKIRVIN W. H.	125 E KIRKWOOD AVE	IN DRYCLEANERS	Higher	797, 0.151, NE
J59	CVS PHARMACY 10676	121 E KIRKWOOD AVE	RCRA-VSQG, FINDS, ECHO	Higher	804, 0.152, NE
J60	OLD NATIONAL BANK BU	121 E KIRKWOOD	IN BROWNFIELDS	Higher	804, 0.152, NE
J61	CVS PHARMACY 10676	121 E KIRKWOOD AVE	IN MANIFEST	Higher	804, 0.152, NE
N62	MCKINNEY HOMER	122 N WALNUT ST	IN DRYCLEANERS	Higher	836, 0.158, NE
M63	LAUNDERETTE	301 S WASHINGTON ST	IN DRYCLEANERS	Lower	845, 0.160, ESE
O64	CONFIDENTIAL DOCUMEN	318 S. WASHINGTON ST	IN SWRCY	Lower	865, 0.164, SE
N65	VANDEMAN CLEANERS &	110.5 W 6TH	IN DRYCLEANERS	Higher	882, 0.167, NNE
66	VACANT RESIDENCE	2101.5 S. ROGERS STR	US BROWNFIELDS, FINDS	Higher	920, 0.174, WSW
P67	COLLEGE PARKING	310 350 402 406 S CO	IN BROWNFIELDS	Higher	926, 0.175, South
Q68	ROLLIE JAY MASON	401 W 6TH ST STE 2A	IN OISC	Higher	947, 0.179, NW
N69	VANDEMAN CLEANERS &	209 N WALNUT ST	IN DRYCLEANERS	Higher	972, 0.184, NNE
Q70	BTOWN CLEAN LLC	405 W 6TH ST	IN DRYCLEANERS	Higher	978, 0.185, NW
R71	MOTOR SVC INC	106 N ROGERS ST	RCRA-VSQG, FINDS, ECHO, IN IND WASTE, IN MANIFEST	Higher	980, 0.186, WNW
S72	QUARLES T. W.	229 N COLLEGE AVE	IN DRYCLEANERS	Higher	986, 0.187, North
L73	THOMPSON-SUPERIOR CL	403 S WALNUT ST	IN DRYCLEANERS	Lower	986, 0.187, SSE
O74	NORDBERG RENT-ALL	340 S WASHINGTON ST	IN LUST, IN UST	Lower	991, 0.188, SE
L75	DAVIS CLEANERS	408 S WALNUT ST	IN DRYCLEANERS	Lower	997, 0.189, SSE
P76	MONROE CNTY TIRE	414 S COLLEGE AVE	RCRA NonGen / NLR, FINDS, ECHO, IN MANIFEST	Higher	1013, 0.192, South
N77	MASTER CLEANERS & DY	208 N WALNUT ST	IN DRYCLEANERS	Higher	1014, 0.192, NNE
N78	ONE CALL COMMUNICATI	115 E 6TH ST	IN AUL, IN BROWNFIELDS	Higher	1027, 0.195, NE

MAPPED SITES SUMMARY

Target Property Address:
216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
N79	A-1 CLEANERS	212 N WALNUT ST	IN DRYCLEANERS	Higher	1041, 0.197, NNE
80	HABITAT FOR HUMANITY	213 E. KIRKWOOD AVEN	IN SWRCY	Higher	1053, 0.199, ENE
S81	SIMEON PETER BAKER	119 W 7TH ST	IN OISC	Higher	1071, 0.203, North
S82	SIMS CLEANERS	113 W 7TH ST	IN DRYCLEANERS	Higher	1081, 0.205, NNE
83	BLOOMINGTON PLANNING	105 W. 7TH ST	IN SCP, IN SPILLS	Higher	1088, 0.206, NNE
R84	CIRCLE K 39	503 W KIRKWOOD AVE	IN LUST, IN UST, IN SPILLS	Higher	1098, 0.208, WNW
85	MARATHON BLOOMINGTON	442 S. WALNUT STREET	IN SCP, IN SPILLS	Lower	1117, 0.212, SSE
T86	HOME LAUNDRY & CLEAN	3RD ST & LINCOLN ST	IN DRYCLEANERS	Lower	1136, 0.215, ESE
87	WESTPART-AN INDIANA	314 W 7TH ST	IN LUST, IN UST	Higher	1165, 0.221, NNW
88	CITY OF BLOOMINGTON	300 E 4TH ST	IN LUST, IN UST	Lower	1165, 0.221, East
S89	HEATH'S BACHELOR LAU	212 W 7TH ST	IN DRYCLEANERS	Higher	1168, 0.221, North
U90	HOME LAUNDRY COMPANY	401 S WASHINGTON ST	IN DRYCLEANERS	Lower	1186, 0.225, SE
T91	REED STEAM LAUNDRY	311 S LINCOLN ST	IN DRYCLEANERS	Lower	1192, 0.226, ESE
T92	BARBARA LEONARD LUND	300 E 3RD	IN LUST	Lower	1193, 0.226, ESE
T93	LEONARDS HOME DRY CL	300 E 3RD ST	IN SCP, RCRA NonGen / NLR, FINDS, ECHO, IN...	Lower	1193, 0.226, ESE
U94	MASTER CLEANERS	408 S WASHINGTON ST	IN DRYCLEANERS	Lower	1200, 0.227, SE
V95	FORMER SELECT CLEANE	401 W 7TH ST	IN SCP	Higher	1231, 0.233, NNW
T96	NEW HOME LAUNDRY	309 S LINCOLN ST	IN DRYCLEANERS	Lower	1291, 0.245, ESE
V97	FORMER SELECT CLEANE	415 W 7TH ST	IN SCP, IN ASBESTOS, IN DRYCLEANERS, IN MANIFEST	Higher	1299, 0.246, NW
V98	FORMER SELECT CLEANE	415 W 7TH ST	RCRA-SQG, FINDS, ECHO	Higher	1299, 0.246, NW
V99	SELECT-O-MATIC	417 W 7TH ST	IN DRYCLEANERS	Higher	1315, 0.249, NW
W100	PARKING LOT	210 E 7TH ST	IN BROWNFIELDS	Higher	1379, 0.261, NE
W101	N33171	301 N WASHINGTON ST	IN LUST, IN UST, IN AIRS, IN TIER 2	Higher	1405, 0.266, NNE
102	INDIANA UNIVERSITY H	301 W 2ND ST	IN BROWNFIELDS, IN SPILLS, IN ASBESTOS	Lower	1467, 0.278, SSW
103	DOWNTOWN 66 #20	501 S WALNUT	IN LUST, IN UST	Lower	1482, 0.281, SSE
X104	CLARK STATION	2ND & ROGERS ST	IN LUST	Higher	1628, 0.308, SW
Y105	SMALLWOOD PLAZA LLC	415 N COLLEGE	IN SCP	Higher	1638, 0.310, North
X106	VACANT CLARK OIL SER	506 W 2ND ST	IN LUST, IN UST	Higher	1656, 0.314, SW
Y107	ST SEMICONDUCTERS OF	415 N COLLEGE AVE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, IN SCP, RCRA...	Higher	1659, 0.314, North
108	KROGER STORE #91	528 S COLLEGE	IN SWRCY, IN SPILLS, IN MANIFEST	Lower	1753, 0.332, South
109	INDIAN REFINING	640 S MORTON ST	IN BROWNFIELDS, IN ASBESTOS	Lower	1867, 0.354, South
Z110	D AND G OHC INC	501 N WALNUT ST	IN SCP, IN SPILLS, RCRA NonGen / NLR, FINDS, ECHO,...	Higher	1896, 0.359, NNE
Z111	BANK ONE	501 N. WALNUT	IN SCP	Higher	1896, 0.359, NNE
AA112	FORMER SHOWERS ADMIN	501 N. MORTON STREET	US BROWNFIELDS, FINDS	Higher	1905, 0.361, North
AA113	CHARLES ANTHONY WEBB	501 N MORTON ST STE	IN BROWNFIELDS, IN OISC	Higher	1905, 0.361, North
AB114	PEOPLES PARK	501 EAST KIRKWOOD	IN SCP	Lower	1964, 0.372, ENE
AB115	PEOPLES PARK	501 E KIRKWOOD AVE	IN SCP, IN DRYCLEANERS	Lower	1964, 0.372, ENE
116	BLOOMINGTON HOSPITAL	601 W 2ND ST	IN LUST, IN UST	Higher	1967, 0.373, SW
117	BEASLEY PRODUCE CO I	501 NORTH ROGERS ST	IN LUST, IN UST	Higher	2052, 0.389, NNW

MAPPED SITES SUMMARY

Target Property Address:
216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
118	CENTERSTONE OF INDIA	400 W 1ST ST	IN BROWNFIELDS	Higher	2103, 0.398, SSW
AA119	MORTON PARKING LOT	555 N. MORTON STREET	US BROWNFIELDS	Higher	2160, 0.409, North
120	THE FARMER HOUSE MUS	531 N COLLEGE AVE	IN SCP, IN SPILLS	Higher	2199, 0.416, North
121	INDIANA UNIVERSITY P	DUNN ST & 7TH ST	IN LUST, IN UST	Higher	2211, 0.419, ENE
122	MONROE OIL COMPANY B	229 W 1ST ST	IN AUL, IN SCP, IN BROWNFIELDS, IN SPILLS, IN...	Lower	2223, 0.421, South
AC123	CIRCLE K 0033	527 E 3RD ST	IN LUST, IN UST	Higher	2223, 0.421, East
AC124	CIRCLE K 0033	527 E 3RD ST	IN AUL	Higher	2223, 0.421, East
125	MCGLOTHLIN	600 S. WALNUT ST.	IN AUL, IN SCP	Lower	2248, 0.426, South
AD126	INDIANA UNIVERSITY S	601 N MORTON	CORRACTS, RCRA-TSDF, RCRA NonGen / NLR, 2020 COR...	Higher	2313, 0.438, North
AD127	SHOWERS ADMINISTRATI	601 N MORTON ST	IN BROWNFIELDS	Higher	2313, 0.438, North
128	INDIANA UNIVERSITY M	107 S INDIANA AVE	IN SCP	Higher	2341, 0.443, East
129	SHELL DEALER BLOOMIN	602 N WALNUT ST	IN LUST, IN UST	Higher	2384, 0.452, NNE
AE130	OLD SIRA OFFICE BUIL	660 S COLLEGE AVE	IN AUL, IN BROWNFIELDS	Lower	2429, 0.460, South
131	AURORA ALTERNATIVE H	524 N FAIRVIEW ST.	IN SWRCY	Higher	2448, 0.464, NW
AF132	FORMER IU FOOD STORA	600 NORTH ROGERS STR	US BROWNFIELDS	Higher	2484, 0.470, NNW
AF133	VACANT LOT	N. ROGERS STREET	US BROWNFIELDS	Higher	2560, 0.485, NNW
AF134	IU PROPERTY	N ROGERS ST & 11TH S	IN BROWNFIELDS	Higher	2560, 0.485, NNW
AE135	THE WAREHOUSE FORMER	735 S COLLEGE AVE	IN LUST, IN UST	Lower	2561, 0.485, South
AG136	FELL IRON & METAL IN	503 ROGERS STREET	SEMS-ARCHIVE, IN SWRCY, RCRA NonGen / NLR, PRP,...	Higher	2587, 0.490, NNW
AG137	FELL IRON & METAL IN	503 N ROGERS ST	IN SWRCY, IN NPDES	Higher	2587, 0.490, NNW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
COLLEGE SQUARE 216 S COLLEGE AVE BLOOMINGTON, IN 47404	IN BROWNFIELDS Facility Id: 4190505	N/A
COMMERCIAL PROPERTY 216 S. COLLEGE AVENU BLOOMINGTON, IN 47404	US BROWNFIELDS ACRES property ID: 239649 Cleanup Completion Date: - FINDS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS ..... Institutional Controls Sites List

Federal ERNS list

ERNS ..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

IN SHWS ..... List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

Lists of state and tribal landfills and solid waste disposal facilities

IN OPEN DUMPS ..... Open Dump Waste Sites
IN SWF/LF ..... Permitted Solid Waste Facilities

Lists of state and tribal leaking storage tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ..... Underground Storage Tank Listing
IN AST ..... Above Ground Storage Tanks
INDIAN UST ..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

IN SWTIRE ..... Waste Tire Sites Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
IN CDL ..... Clandestine Drug Lab Listing
IN DEL SHWS ..... Deleted Commissioner's Bulletin Sites List
US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
IN SPILLS 90 ..... SPILLS 90 data from FirstSearch

IN SPILLS 80 ---- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
UXO ---- Unexploded Ordnance Sites
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
PFAS NPL ---- Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ---- Federal Sites PFAS Information
PFAS TSCA ---- PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST ---- PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR ---- PFAS Contamination Site Location Listing
PFAS WQP ---- Ambient Environmental Sampling for PFAS
PFAS NPDES ---- Clean Water Act Discharge Monitoring Information
PFAS ECHO ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT ---- All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC ---- Aqueous Foam Related Incidents Listing
IN PFAS ---- Per- and Polyfluoroalkyl Substances
IN BULK ---- Registered Bulk Fertilizer and Pesticide Storage Facilities
IN CFO ---- Confined Feeding Operations
IN COAL ASH ---- Coal Ash Disposal Sites
IN Financial Assurance ---- Financial Assurance Information Listing
IN UIC ---- UIC Site Listing
MINES MRDS ---- Mineral Resources Data System
PFAS TRIS ---- List of PFAS Added to the TRI

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

IN RGA HWS ---- Recovered Government Archive State Hazardous Waste Facilities List

IN RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
IN RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 01/25/2023 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST SEMICONDUCTERS OF Site ID: 0506585 EPA Id: IND000714527	***415 N COLLEGE AVE***	***N 1/4 - 1/2 (0.314 mi.)***	***Y107***	***326***
FELL IRON & METAL IN Site ID: 0501367 EPA Id: IND016208795	***503 ROGERS STREET***	***NNW 1/4 - 1/2 (0.490 mi.)***	***AG136***	***709***

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/06/2023 has revealed that there are 2

CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST SEMICONDUCTERS OF EPA ID:: IND000714527	***415 N COLLEGE AVE***	***N 1/4 - 1/2 (0.314 mi.)***	***Y107***	***326***
INDIANA UNIVERSITY S EPA ID:: IND000815423	***601 N MORTON***	***N 1/4 - 1/2 (0.438 mi.)***	***AD126***	***623***

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/06/2023 has revealed that there are 2 RCRA-TSDF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST SEMICONDUCTERS OF EPA ID:: IND000714527	***415 N COLLEGE AVE***	***N 1/4 - 1/2 (0.314 mi.)***	***Y107***	***326***
INDIANA UNIVERSITY S EPA ID:: IND000815423	***601 N MORTON***	***N 1/4 - 1/2 (0.438 mi.)***	***AD126***	***623***

Lists of Federal RCRA generators

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/06/2023 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER SELECT CLEANE EPA ID:: INR000136754	***415 W 7TH ST***	***NW 1/8 - 1/4 (0.246 mi.)***	***V98***	***306***

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 03/06/2023 has revealed that there are

3 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE FOUNDRY AT 304 L EPA ID:: INR000146183	304 W KIRKWOOD	NW 0 - 1/8 (0.107 mi.)	H37	169
CVS PHARMACY 10676 EPA ID:: INR000141465	***121 E KIRKWOOD AVE***	***NE 1/8 - 1/4 (0.152 mi.)***	***J59***	***210***
MOTOR SVC INC EPA ID:: IND985048537	***106 N ROGERS ST***	***WNW 1/8 - 1/4 (0.186 mi.)***	***R71***	***245***

Lists of state and tribal leaking storage tanks

IN LUST: Lust List.

A review of the IN LUST list, as provided by EDR, and dated 11/03/2022 has revealed that there are 19 IN LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HHI YELLOW CAB LLC Facility Id: 18574 Description: NFA-Unconditional Closure	***219 W 6TH ST***	***N 1/8 - 1/4 (0.135 mi.)***	***K49***	***199***
CIRCLE K 39 Facility Id: 15924 Description: NFA-Unconditional Closure	***503 W KIRKWOOD AVE***	***WNW 1/8 - 1/4 (0.208 mi.)***	***R84***	***266***
WESTPART-AN INDIANA Facility Id: 13845 Description: NFA-Unconditional Closure	***314 W 7TH ST***	***NNW 1/8 - 1/4 (0.221 mi.)***	***87***	***276***
N33171 Facility Id: 17678 Description: NFA-Unconditional Closure	***301 N WASHINGTON ST***	***NNE 1/4 - 1/2 (0.266 mi.)***	***W101***	***319***
CLARK STATION Facility Id: 20498 Description: NFA-Unconditional Closure	2ND & ROGERS ST	SW 1/4 - 1/2 (0.308 mi.)	X104	323
VACANT CLARK OIL SER Facility Id: 12204 Description: NFA-Unconditional Closure	***506 W 2ND ST***	***SW 1/4 - 1/2 (0.314 mi.)***	***X106***	***324***
BLOOMINGTON HOSPITAL Facility Id: 13106 Description: NFA-Unconditional Closure	***601 W 2ND ST***	***SW 1/4 - 1/2 (0.373 mi.)***	***116***	***579***
BEASLEY PRODUCE CO I Facility Id: 16741 Description: NFA-Unconditional Closure	***501 NORTH ROGERS ST***	***NNW 1/4 - 1/2 (0.389 mi.)***	***117***	***581***
INDIANA UNIVERSITY P Facility Id: 4103 Description: NFA-Unconditional Closure	***DUNN ST & 7TH ST***	***ENE 1/4 - 1/2 (0.419 mi.)***	***121***	***614***
CIRCLE K 0033 Facility Id: 1028 Description: NFA-Conditional Closure	***527 E 3RD ST***	***E 1/4 - 1/2 (0.421 mi.)***	***AC123***	***619***
SHELL DEALER BLOOMIN	***602 N WALNUT ST***	***NNE 1/4 - 1/2 (0.452 mi.)***	***129***	***643***

Facility Id: 92
Description: NFA-Unconditional Closure

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOM O'DANIEL INC Facility Id: 7480 Description: NFA-Unconditional Closure	***302 S COLLEGE***	***SSE 0 - 1/8 (0.079 mi.)***	***D21***	***102***
SHELL DEALER BLOOMIN Facility Id: 106 Description: NFA-Unconditional Closure	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E33***	***164***
NORDBERGS PROPERTY Facility Id: 20252 Description: NFA-Conditional Closure	***329 S WALNUT***	***SE 1/8 - 1/4 (0.137 mi.)***	***I51***	***202***
NORDBERG RENT-ALL Facility Id: 18967 Description: NFA-Unconditional Closure	***340 S WASHINGTON ST***	***SE 1/8 - 1/4 (0.188 mi.)***	***O74***	***253***
CITY OF BLOOMINGTON Facility Id: 17987 Description: NFA-Unconditional Closure	***300 E 4TH ST***	***E 1/8 - 1/4 (0.221 mi.)***	***88***	***277***
BARBARA LEONARD LUND Facility Id: 19750 Description: NFA-Unconditional Closure	300 E 3RD	ESE 1/8 - 1/4 (0.226 mi.)	T92	280
DOWNTOWN 66 #20 Facility Id: 3608 Description: NFA-Unconditional Closure	***501 S WALNUT***	***SSE 1/4 - 1/2 (0.281 mi.)***	***103***	***322***
THE WAREHOUSE FORMER Facility Id: 22095 Description: NFA-Unconditional Closure	***735 S COLLEGE AVE***	***S 1/4 - 1/2 (0.485 mi.)***	***AE135***	***709***

Lists of state and tribal registered storage tanks

IN UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Management's Indiana Registered Underground Storage Tanks list.

A review of the IN UST list, as provided by EDR, and dated 11/03/2022 has revealed that there are 9 IN UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INDIANA GAS COMPANY Tank Status: Permanently Out of Service Facility Id: 4026	205 S MADISON ST	W 0 - 1/8 (0.090 mi.)	F25	115
HHI YELLOW CAB LLC Tank Status: Permanently Out of Service Facility Id: 18574	***219 W 6TH ST***	***N 1/8 - 1/4 (0.135 mi.)***	***K49***	***199***
CIRCLE K 39 Tank Status: Currently in use	***503 W KIRKWOOD AVE***	***WNW 1/8 - 1/4 (0.208 mi.)***	***R84***	***266***

Tank Status: Permanently Out of Service
Facility Id: 15924

WESTPART-AN INDIANA Tank Status: Permanently Out of Service Facility Id: 13845	***314 W 7TH ST***	***NNW 1/8 - 1/4 (0.221 mi.)***	***87***	***276***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOOMINGTON TIRE CO Tank Status: Permanently Out of Service Facility Id: 8705	***301 S COLLEGE***	***SSE 0 - 1/8 (0.053 mi.)***	***D14***	***74***
TOM O'DANIEL INC Tank Status: Permanently Out of Service Facility Id: 7480	***302 S COLLEGE***	***SSE 0 - 1/8 (0.079 mi.)***	***D21***	***102***
SHELL DEALER BLOOMIN Tank Status: Permanently Out of Service Facility Id: 106	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E33***	***164***
NORDBERG RENT-ALL Tank Status: Permanently Out of Service Facility Id: 18967	***340 S WASHINGTON ST***	***SE 1/8 - 1/4 (0.188 mi.)***	***O74***	***253***
CITY OF BLOOMINGTON Tank Status: Permanently Out of Service Facility Id: 17987	***300 E 4TH ST***	***E 1/8 - 1/4 (0.221 mi.)***	***88***	***277***

State and tribal institutional control / engineering control registries

IN AUL: A listing of Comfort/Site Status Letter sites that have been issued with Institutional Controls.

A review of the IN AUL list, as provided by EDR, and dated 10/04/2022 has revealed that there are 11 IN AUL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREIGHT DEPOT Facility Id: 4121015	***217 W KIRKWOOD AVE***	***NNW 0 - 1/8 (0.042 mi.)***	***B10***	***46***
BANK ONE INDIANA Facility Id: 6970604	***304 W KIRKWOOD AVE***	***NW 0 - 1/8 (0.107 mi.)***	***H34***	***165***
ONE CALL COMMUNICATI Facility Id: 4040001	***115 E 6TH ST***	***NE 1/8 - 1/4 (0.195 mi.)***	***N78***	***260***
CIRCLE K 0033 Facility Id: 1028	527 E 3RD ST	E 1/4 - 1/2 (0.421 mi.)	AC124	622

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOOMINGTON TIRE CO Facility Id: 4060002	***301 S COLLEGE***	***SSE 0 - 1/8 (0.053 mi.)***	***D14***	***74***
EXPERT TIRE Facility Id: 201229097	***219 S WALNUT ST***	***ESE 0 - 1/8 (0.086 mi.)***	***E23***	***107***
EQUILON ENTERPRISES	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E32***	***143***

Facility Id: 4080102				
NORDBERGS PROPERTY	***329 S WALNUT***	***SE 1/8 - 1/4 (0.137 mi.)***	***I51***	***202***
Facility Id: 199109525				
MONROE OIL COMPANY B	***229 W 1ST ST***	***S 1/4 - 1/2 (0.421 mi.)***	***122***	***615***
Facility Id: 4121209				
MCGLOTHLIN	***600 S. WALNUT ST.***	***S 1/4 - 1/2 (0.426 mi.)***	***125***	***622***
Facility Id: 6181201				
OLD SIRA OFFICE BUIL	***660 S COLLEGE AVE***	***S 1/4 - 1/2 (0.460 mi.)***	***AE130***	***644***
Facility Id: 4020024				

Lists of state and tribal voluntary cleanup sites

IN VCP: Department of Environmental Management's current list of Voluntary Remediation Program sites that are no longer confidential.

A review of the IN VCP list, as provided by EDR, and dated 09/30/2022 has revealed that there are 2 IN VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IGC BLOOMINGTON SVC	***205 S MADISON ST***	***W 0 - 1/8 (0.090 mi.)***	***F27***	***115***
Status: Active				
VRP Id Number: 6000410				
BANK ONE INDIANA	***304 W KIRKWOOD AVE***	***NW 0 - 1/8 (0.107 mi.)***	***H34***	***165***
Status: Inactive				
VRP Id Number: 6970604				

IN SCP: The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

A review of the IN SCP list, as provided by EDR, and dated 09/30/2022 has revealed that there are 22 IN SCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOUNDERLAB MUSEUM	***300 W. 4TH ST.***	***WNW 0 - 1/8 (0.031 mi.)***	***A5***	***34***
WONDERLAB MUSEUM	308 W 4TH ST	WNW 0 - 1/8 (0.034 mi.)	A6	35
Facility Id: 44578				
BANK ONE INDIANA	***304 W KIRKWOOD AVE***	***NW 0 - 1/8 (0.107 mi.)***	***H34***	***165***
Facility Id: 45793				
THE FOUNDRY	304 WEST KIRKWOOD	NW 0 - 1/8 (0.107 mi.)	H36	169
BLOOMINGTON PLANNING	***105 W. 7TH ST***	***NNE 1/8 - 1/4 (0.206 mi.)***	***83***	***265***
FORMER SELECT CLEANE	401 W 7TH ST	NNW 1/8 - 1/4 (0.233 mi.)	V95	291
Facility Id: 107740				
FORMER SELECT CLEANE	***415 W 7TH ST***	***NW 1/8 - 1/4 (0.246 mi.)***	***V97***	***301***
SMALLWOOD PLAZA LLC	415 N COLLEGE	N 1/4 - 1/2 (0.310 mi.)	Y105	324
ST SEMICONDUCTERS OF	***415 N COLLEGE AVE***	***N 1/4 - 1/2 (0.314 mi.)***	***Y107***	***326***
Facility Id: 40019				
D AND G OHC INC	***501 N WALNUT ST***	***NNE 1/4 - 1/2 (0.359 mi.)***	***Z110***	***524***

Facility Id: 48994				
BANK ONE	501 N. WALNUT	NNE 1/4 - 1/2 (0.359 mi.)	Z111	533
THE FARMER HOUSE MUS	***531 N COLLEGE AVE***	***N 1/4 - 1/2 (0.416 mi.)***	***120***	***613***
Facility Id: 107723				
INDIANA UNIVERSITY M	107 S INDIANA AVE	E 1/4 - 1/2 (0.443 mi.)	128	643

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXPERT TIRE	***219 S WALNUT ST***	***ESE 0 - 1/8 (0.086 mi.)***	***E23***	***107***
Facility Id: 43849				
EQUILON ENTERPRISES	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E32***	***143***
Facility Id: 40913				
FLEENER BUILDING	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
Facility Id: 40204				
MARATHON BLOOMINGTON	***442 S. WALNUT STREET***	***SSE 1/8 - 1/4 (0.212 mi.)***	***85***	***268***
Facility Id: 45570				
LEONARDS HOME DRY CL	***300 E 3RD ST***	***ESE 1/8 - 1/4 (0.226 mi.)***	***T93***	***281***
Facility Id: 40340				
PEOPLES PARK	501 EAST KIRKWOOD	ENE 1/4 - 1/2 (0.372 mi.)	AB114	570
PEOPLES PARK	***501 E KIRKWOOD AVE***	***ENE 1/4 - 1/2 (0.372 mi.)***	***AB115***	***571***
Facility Id: 45526				
MONROE OIL COMPANY B	***229 W 1ST ST***	***S 1/4 - 1/2 (0.421 mi.)***	***122***	***615***
Facility Id: 41828				
MCGLOTHLIN	***600 S. WALNUT ST.***	***S 1/4 - 1/2 (0.426 mi.)***	***125***	***622***

Lists of state and tribal brownfield sites

IN BROWNFIELDS: >A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redeveloopment is complicated due to the actual or perceived environmental contamination.

A review of the IN BROWNFIELDS list, as provided by EDR, and dated 10/19/2022 has revealed that there are 19 IN BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREIGHT DEPOT	***217 W KIRKWOOD AVE***	***NNW 0 - 1/8 (0.042 mi.)***	***B10***	***46***
Facility Id: 4121015				
ADAM WASON, BLOOMING	***105 W 4TH ST***	***E 0 - 1/8 (0.051 mi.)***	***C13***	***73***
Facility Id: 4190606				
OLD NATIONAL BANK BU	121 E KIRKWOOD	NE 1/8 - 1/4 (0.152 mi.)	J60	219
Facility Id: 4141102				
COLLEGE PARKING	310 350 402 406 S CO	S 1/8 - 1/4 (0.175 mi.)	P67	243
Facility Id: 4200303				
ONE CALL COMMUNICATI	***115 E 6TH ST***	***NE 1/8 - 1/4 (0.195 mi.)***	***N78***	***260***
Facility Id: 4040001				
PARKING LOT	210 E 7TH ST	NE 1/4 - 1/2 (0.261 mi.)	W100	319
Facility Id: 4141104				
CHARLES ANTHONY WEBB	***501 N MORTON ST STE***	***N 1/4 - 1/2 (0.361 mi.)***	***AA113***	***565***

Facility Id: 4190607				
CENTERSTONE OF INDIA Facility Id: 4220405	400 W 1ST ST	SSW 1/4 - 1/2 (0.398 mi.)	118	582
SHOWERS ADMINISTRATI Facility Id: 4180903	601 N MORTON ST	N 1/4 - 1/2 (0.438 mi.)	AD127	642
IU PROPERTY Facility Id: 4160803	N ROGERS ST & 11TH S	NNW 1/4 - 1/2 (0.485 mi.)	AF134	708

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOOMINGTON TIRE CO Facility Id: 4060002	***301 S COLLEGE***	***SSE 0 - 1/8 (0.053 mi.)***	***D14***	***74***
JUANSELLS REALTY Facility Id: 4191008	222 S WALNUT ST	ESE 0 - 1/8 (0.067 mi.)	C17	95
EQUILON ENTERPRISES Facility Id: 4080102	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E32***	***143***
FLEENER BUILDING Facility Id: 4110803	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
BIG O PROPERTIES Facility Id: 4080405	340 S WALNUT ST	SSE 1/8 - 1/4 (0.144 mi.)	L52	203
INDIANA UNIVERSITY H Facility Id: 4220406	***301 W 2ND ST***	***SSW 1/4 - 1/2 (0.278 mi.)***	***102***	***321***
INDIAN REFINING Facility Id: 4220306	***640 S MORTON ST***	***S 1/4 - 1/2 (0.354 mi.)***	***109***	***523***
MONROE OIL COMPANY B Facility Id: 4121209	***229 W 1ST ST***	***S 1/4 - 1/2 (0.421 mi.)***	***122***	***615***
OLD SIRA OFFICE BUIL Facility Id: 4020024	***660 S COLLEGE AVE***	***S 1/4 - 1/2 (0.460 mi.)***	***AE130***	***644***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 02/23/2022 has revealed that there are 8 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
4TH STREET GARAGE ACRES property ID: 241119 Cleanup Completion Date: -	105 W. 4TH STREET	E 0 - 1/8 (0.051 mi.)	C12	49
VACANT RESIDENCE ACRES property ID: 238420	***2101.5 S. ROGERS STR***	***WSW 1/8 - 1/4 (0.174 mi.)***	***66***	***224***

Cleanup Completion Date: -				
FORMER SHOWERS ADMIN ACRES property ID: 238418 ACRES property ID: 241118 Cleanup Completion Date: -	***501 N. MORTON STREET***	***N 1/4 - 1/2 (0.361 mi.)***	***AA112***	***534***
MORTON PARKING LOT ACRES property ID: 171984 Cleanup Completion Date: -	555 N. MORTON STREET	N 1/4 - 1/2 (0.409 mi.)	AA119	583
FORMER IU FOOD STORA ACRES property ID: 171345 Cleanup Completion Date: -	600 NORTH ROGERS STR	NNW 1/4 - 1/2 (0.470 mi.)	AF132	646
VACANT LOT ACRES property ID: 171986 Cleanup Completion Date: -	N. ROGERS STREET	NNW 1/4 - 1/2 (0.485 mi.)	AF133	677

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
JUAN SELLS - 222 WAL ACRES property ID: 242751 Cleanup Completion Date: -	222 S. WALNUT	ESE 0 - 1/8 (0.067 mi.)	C16	81
310 S. COLLEGE PARKI ACRES property ID: 243514 Cleanup Completion Date: -	310 S. COLLEGE AVENU	S 0 - 1/8 (0.092 mi.)	28	126

Local Lists of Landfill / Solid Waste Disposal Sites

IN SWRCY: A listing of recycling facilities located in the state of Indiana.

A review of the IN SWRCY list, as provided by EDR, and dated 01/21/2022 has revealed that there are 6 IN SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
HABITAT FOR HUMANITY	213 E. KIRKWOOD AVEN	ENE 1/8 - 1/4 (0.199 mi.)	80	261
AURORA ALTERNATIVE H	524 N FAIRVIEW ST.	NW 1/4 - 1/2 (0.464 mi.)	131	645
FELL IRON & METAL IN	***503 ROGERS STREET***	***NNW 1/4 - 1/2 (0.490 mi.)***	***AG136***	***709***
FELL IRON & METAL IN	***503 N ROGERS ST***	***NNW 1/4 - 1/2 (0.490 mi.)***	***AG137***	***717***

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CONFIDENTIAL DOCUMEN	318 S. WASHINGTON ST	SE 1/8 - 1/4 (0.164 mi.)	O64	223
KROGER STORE #91	***528 S COLLEGE***	***S 1/4 - 1/2 (0.332 mi.)***	***108***	***520***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/06/2023 has revealed that there are 12 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WONDERLAB MUSEUM EPA ID:: INR000106831	***308 W FOURTH ST***	***WNW 0 - 1/8 (0.034 mi.)***	***A7***	***37***
SHERWIN WILLIAMS CO EPA ID:: IND072063415	***205 S WALNUT ST***	***E 0 - 1/8 (0.087 mi.)***	***C24***	***109***
IGC BLOOMINGTON SVC EPA ID:: IN0000962944	***205 S MADISON ST***	***W 0 - 1/8 (0.090 mi.)***	***F27***	***115***
MC CO INC EPA ID:: IN0000085514	***219 W SIXTH ST***	***N 1/8 - 1/4 (0.135 mi.)***	***K48***	***195***
MONROE CNTY TIRE EPA ID:: IND985099621	***414 S COLLEGE AVE***	***S 1/8 - 1/4 (0.192 mi.)***	***P76***	***255***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JERRYS DIAGNOSTIC CT EPA ID:: IND075957175	***211 S COLLEGE***	***ESE 0 - 1/8 (0.029 mi.)***	***A3***	***28***
BLOOMINGTON TIRE CO EPA ID:: IND984877506	***301 S COLLEGE***	***SSE 0 - 1/8 (0.053 mi.)***	***D14***	***74***
ODANIEL TOM FORD EPA ID:: IND016210627	***302 S COLLEGE AVE***	***SSE 0 - 1/8 (0.079 mi.)***	***D20***	***97***
BLOOMINGTON FORD EPA ID:: IND984867978	***302 S COLLEGE AVE***	***SSE 0 - 1/8 (0.079 mi.)***	***D22***	***102***
EQUILON ENTERPRISES EPA ID:: INR000020842	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E32***	***143***
FLEENER BUILDING EPA ID:: IND016210361	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
LEONARDS HOME DRY CL EPA ID:: IND981790397	***300 E 3RD ST***	***ESE 1/8 - 1/4 (0.226 mi.)***	***T93***	***281***

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 09/30/2022 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FELL IRON & METAL IN	***503 ROGERS STREET***	***NNW 1/4 - 1/2 (0.490 mi.)***	***AG136***	***709***

IN DRYCLEANERS: Drycleaner Facility Listing.

A review of the IN DRYCLEANERS list, as provided by EDR, has revealed that there are 45 IN DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE LAUNDRY	121 S COLLEGE AVE	NE 0 - 1/8 (0.030 mi.)	A4	33
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
SAM MOY	119 S COLLEGE AVE	NE 0 - 1/8 (0.034 mi.)	A8	42
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
MEISTER & KINSER	115 S COLLEGE AVE	NNE 0 - 1/8 (0.041 mi.)	B9	45
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
BEEM & MORRIS	108 S COLLEGE AVE	N 0 - 1/8 (0.043 mi.)	B11	46
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
RYORS & BEEM	103 S COLLEGE AVE	NNE 0 - 1/8 (0.064 mi.)	B15	80
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
DAVIS & HUCKLEBERRY	125 W KIRKWOOD AVE	NNE 0 - 1/8 (0.074 mi.)	B18	96
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
STEINMETZ & PEEBLES	101 W KIRKWOOD AVE	NE 0 - 1/8 (0.076 mi.)	B19	96
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
QUALITY CLEANERS	107 N COLLEGE AVE	N 0 - 1/8 (0.098 mi.)	G30	142
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
SERVICE CLEANERS	113 N COLLEGE AVE	N 0 - 1/8 (0.111 mi.)	G38	174
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
WEAVER CLEANING & TA	106 E KIRKWOOD AVE	NE 0 - 1/8 (0.119 mi.)	J40	175
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
COOMBS LOGAN L	106 N WALNUT ST	NE 1/8 - 1/4 (0.130 mi.)	J43	191
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
HAZEL CLEANERS	215 W 6TH ST	N 1/8 - 1/4 (0.131 mi.)	G44	191
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
SKIRVIN W. H.	109 E KIRKWOOD AVE	NE 1/8 - 1/4 (0.131 mi.)	J45	192
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
TINY TOT DIAPER SERV	108.5 E KIRKWOOD AVE	ENE 1/8 - 1/4 (0.134 mi.)	J46	193
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
RYORS DRY CLEANING	111 E KIRKWOOD AVE	NE 1/8 - 1/4 (0.134 mi.)	J47	194
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
MANITORIUM THE	119 E KIRKWOOD AVE	NE 1/8 - 1/4 (0.147 mi.)	J53	204
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
BELL & SON	204 W 6TH ST	N 1/8 - 1/4 (0.148 mi.)	K54	204
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
SKIRVIN W. H.	125 E KIRKWOOD AVE	NE 1/8 - 1/4 (0.151 mi.)	J58	210
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
MCKINNEY HOMER	122 N WALNUT ST	NE 1/8 - 1/4 (0.158 mi.)	N62	222
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
VANDEMAN CLEANERS &	110.5 W 6TH	NNE 1/8 - 1/4 (0.167 mi.)	N65	224
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
VANDEMAN CLEANERS &	209 N WALNUT ST	NNE 1/8 - 1/4 (0.184 mi.)	N69	244
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
BTOWN CLEAN LLC	405 W 6TH ST	NW 1/8 - 1/4 (0.185 mi.)	Q70	244
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUARLES T. W. Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	229 N COLLEGE AVE	N 1/8 - 1/4 (0.187 mi.)	S72	252
MASTER CLEANERS & DY Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	208 N WALNUT ST	NNE 1/8 - 1/4 (0.192 mi.)	N77	259
A-1 CLEANERS Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	212 N WALNUT ST	NNE 1/8 - 1/4 (0.197 mi.)	N79	260
SIMS CLEANERS Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	113 W 7TH ST	NNE 1/8 - 1/4 (0.205 mi.)	S82	263
HEATH'S BACHELOR LAU Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	212 W 7TH ST	N 1/8 - 1/4 (0.221 mi.)	S89	278
FORMER SELECT CLEANE Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	***415 W 7TH ST***	***NW 1/8 - 1/4 (0.246 mi.)***	***V97***	***301***
SELECT-O-MATIC Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	417 W 7TH ST	NW 1/8 - 1/4 (0.249 mi.)	V99	315

Lower Elevation	Address	Direction / Distance	Map ID	Page
COURTESY CLEANERS Database: DRYCLEANERS, Date of Government Version: 10/17/2017 Facility Id: IN0503477 Status: PU	312 E WALNUT	SE 0 - 1/8 (0.093 mi.)	D29	141
SKIRVIN W. H. Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	317 S WALNUT ST	SE 0 - 1/8 (0.111 mi.)	I39	174
FLEENER BUILDING Database: DRYCLEANERS, Date of Government Version: 10/17/2017 Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022 Facility Id: IN0503482 Status: CL?	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
CROSSTOWN CLEANERS Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	***116 E 3RD ST***	***ESE 1/8 - 1/4 (0.136 mi.)***	***I50***	***200***
LEONARD'S LINEN SERV Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	316 S WASHINGTON ST	SE 1/8 - 1/4 (0.148 mi.)	I55	205
SUPERIOR CLEANERS & Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	342 S WALNUT ST	SSE 1/8 - 1/4 (0.149 mi.)	L56	206
BLOOMINGTON LAUNDERE Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	200 E 3RD ST	ESE 1/8 - 1/4 (0.151 mi.)	M57	209
LAUNDERETTE Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	301 S WASHINGTON ST	ESE 1/8 - 1/4 (0.160 mi.)	M63	222
THOMPSON-SUPERIOR CL Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	403 S WALNUT ST	SSE 1/8 - 1/4 (0.187 mi.)	L73	252
DAVIS CLEANERS Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	408 S WALNUT ST	SSE 1/8 - 1/4 (0.189 mi.)	L75	254
HOME LAUNDRY & CLEAN Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	3RD ST & LINCOLN ST	ESE 1/8 - 1/4 (0.215 mi.)	T86	275
HOME LAUNDRY COMPANY Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	401 S WASHINGTON ST	SE 1/8 - 1/4 (0.225 mi.)	U90	279
REED STEAM LAUNDRY Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022	311 S LINCOLN ST	ESE 1/8 - 1/4 (0.226 mi.)	T91	279

Lower Elevation	Address	Direction / Distance	Map ID	Page
LEONARDS HOME DRY CL	***300 E 3RD ST***	***ESE 1/8 - 1/4 (0.226 mi.)***	***T93***	***281***
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
MASTER CLEANERS	408 S WASHINGTON ST	SE 1/8 - 1/4 (0.227 mi.)	U94	290
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				
NEW HOME LAUNDRY	309 S LINCOLN ST	ESE 1/8 - 1/4 (0.245 mi.)	T96	297
Database: DRYCLEANERS 2, Date of Government Version: 03/23/2022				

IN IND WASTE: The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

A review of the IN IND WASTE list, as provided by EDR, and dated 11/29/2022 has revealed that there are 2 IN IND WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOTOR SVC INC	***106 N ROGERS ST***	***WNW 1/8 - 1/4 (0.186 mi.)***	***R71***	***245***
Regulatory: IND985048537				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FLEENER BUILDING	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
Regulatory: IND016210361				

IN MANIFEST:

A review of the IN MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there are 16 IN MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WONDERLAB MUSEUM	***308 W FOURTH ST***	***WNW 0 - 1/8 (0.034 mi.)***	***A7***	***37***
EPA ID: INR000106831				
SHERWIN WILLIAMS CO	***205 S WALNUT ST***	***E 0 - 1/8 (0.087 mi.)***	***C24***	***109***
EPA ID: IND072063415				
IGC BLOOMINGTON SVC	***205 S MADISON ST***	***W 0 - 1/8 (0.090 mi.)***	***F27***	***115***
EPA ID: IN0000962944				
THE FOUNDRY AT 304 L	304 W KIRKWOOD	NW 0 - 1/8 (0.107 mi.)	H35	168
EPA ID: INR000146183				
MC CO INC	***219 W SIXTH ST***	***N 1/8 - 1/4 (0.135 mi.)***	***K48***	***195***
EPA ID: IN0000085514				
CVS PHARMACY 10676	121 E KIRKWOOD AVE	NE 1/8 - 1/4 (0.152 mi.)	J61	220
EPA ID: INR000141465				
MOTOR SVC INC	***106 N ROGERS ST***	***WNW 1/8 - 1/4 (0.186 mi.)***	***R71***	***245***
EPA ID: IND985048537				
MONROE CNTY TIRE	***414 S COLLEGE AVE***	***S 1/8 - 1/4 (0.192 mi.)***	***P76***	***255***
EPA ID: IND985099621				
FORMER SELECT CLEANE	***415 W 7TH ST***	***NW 1/8 - 1/4 (0.246 mi.)***	***V97***	***301***

EPA ID: INR000136754

Lower Elevation	Address	Direction / Distance	Map ID	Page
JERRYS DIAGNOSTIC CT EPA ID: IND075957175	***211 S COLLEGE***	***ESE 0 - 1/8 (0.029 mi.)***	***A3***	***28***
BLOOMINGTON TIRE CO EPA ID: IND984877506	***301 S COLLEGE***	***SSE 0 - 1/8 (0.053 mi.)***	***D14***	***74***
ODANIEL TOM FORD EPA ID: IND016210627	***302 S COLLEGE AVE***	***SSE 0 - 1/8 (0.079 mi.)***	***D20***	***97***
BLOOMINGTON FORD EPA ID: IND984867978	***302 S COLLEGE AVE***	***SSE 0 - 1/8 (0.079 mi.)***	***D22***	***102***
EQUILON ENTERPRISES EPA ID: INR000020842	***301 S WALNUT ST***	***ESE 0 - 1/8 (0.100 mi.)***	***E32***	***143***
FLEENER BUILDING EPA ID: IND016210361	***112 E 3RD ST***	***ESE 0 - 1/8 (0.125 mi.)***	***E41***	***175***
LEONARDS HOME DRY CL EPA ID: IND981790397	***300 E 3RD ST***	***ESE 1/8 - 1/4 (0.226 mi.)***	***T93***	***281***

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IGC BLOOMINGTON SVC Generator EPA Id: IN0000962944	***205 S MADISON ST***	***W 0 - 1/8 (0.090 mi.)***	***F27***	***115***

IN OISC: Restricted use pesticide dealers and pesticide & fertilizer applicators.

A review of the IN OISC list, as provided by EDR, and dated 12/09/2022 has revealed that there are 2 IN OISC sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROLLIE JAY MASON	401 W 6TH ST STE 2A	NW 1/8 - 1/4 (0.179 mi.)	Q68	243
SIMEON PETER BAKER	119 W 7TH ST	N 1/8 - 1/4 (0.203 mi.)	S81	262

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used

whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INDIANA GAS/BLOOMING	205 S MADISON STREET	W 0 - 1/8 (0.090 mi.)	F26	115

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
3RD ST SHELL	301 S WALNUT	ESE 0 - 1/8 (0.100 mi.)	E31	143

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

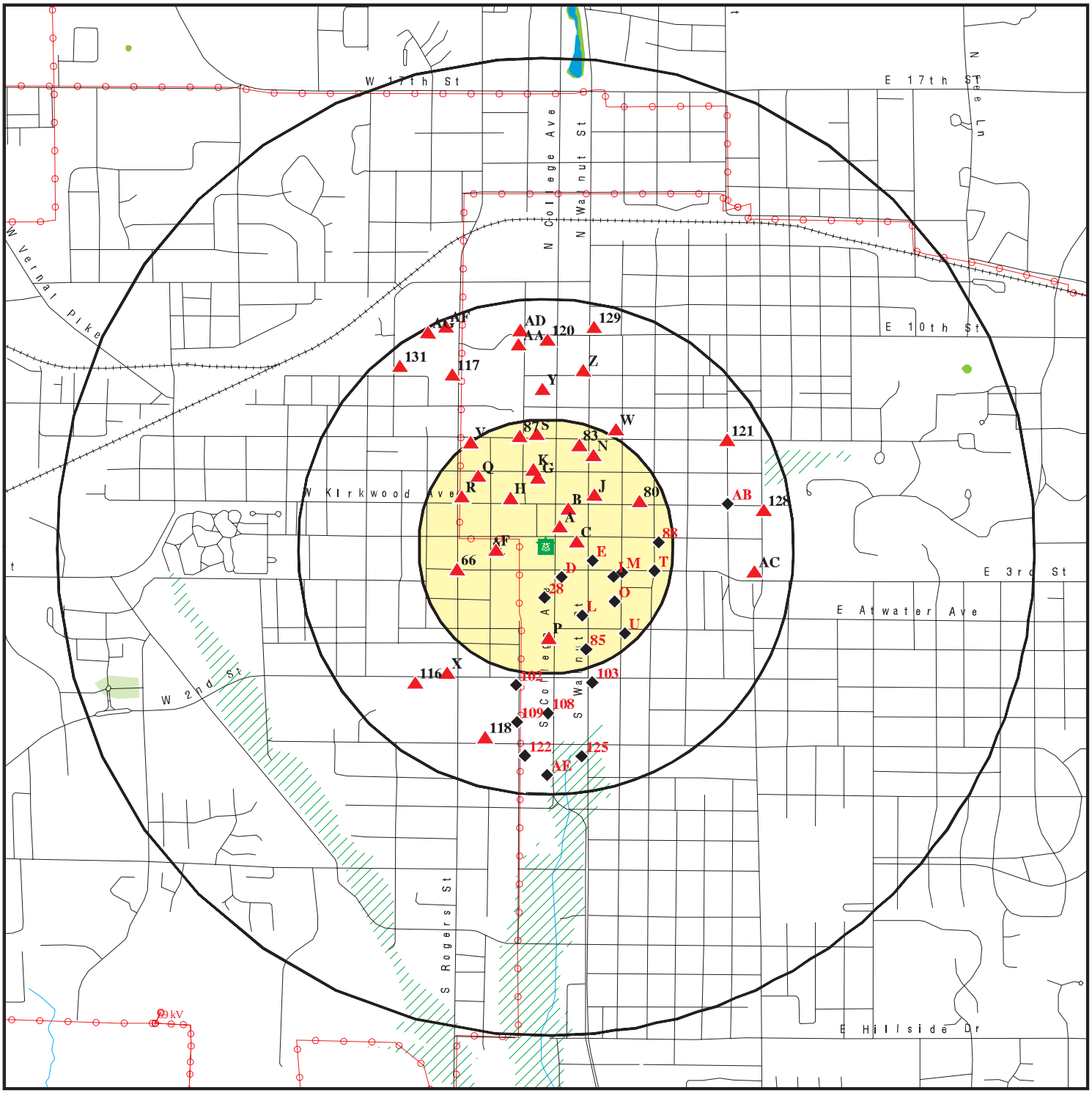
Lower Elevation	Address	Direction / Distance	Map ID	Page
EASTLAND CLEANERS IN	112 E 3RD ST	ESE 0 - 1/8 (0.125 mi.)	E42	190

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
GREENE ED & SONS	SEMS-ARCHIVE
BASTON JUNKYARD	SEMS-ARCHIVE
RUSH LUMBER YARD	SEMS-ARCHIVE
FIRESTONE STORE 29GW/006793	IN LUST, IN UST
FORMER MOBIL GAS STATION	IN VCP

OVERVIEW MAP - 7300512.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 216 S. College - Parking Lot ADDRESS: 216 S. College Ave Bloomington IN 47404 LAT/LONG: 39.165302 / 86.535271	CLIENT: BCA Environmental Consultants CONTACT: Rod Manny INQUIRY #: 7300512.2s DATE: April 05, 2023 6:49 pm

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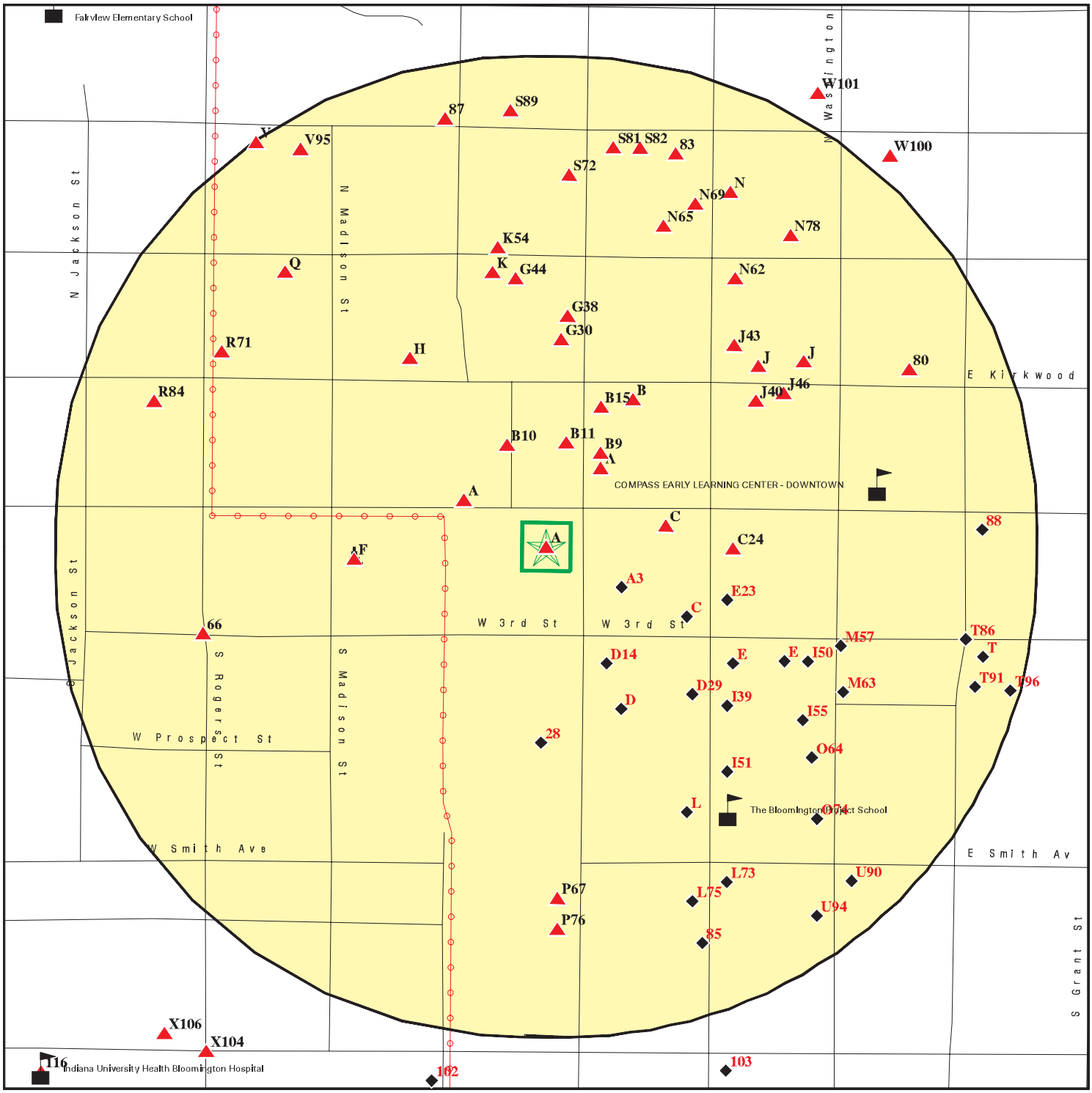
DETAIL MAP - 7300512.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	216 S. College - Parking Lot	CLIENT:	BCA Environmental Consultants
ADDRESS:	216 S. College Ave Bloomington IN 47404	CONTACT:	Rod Manny
		INQUIRY #:	7300512.2s
LAT/LONG:	39.165302 / 86.535271	DATE:	April 05, 2023 6:49 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	2	0	NR	2
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	2	NR	NR	2
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		1	2	NR	NR	NR	3
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
IN SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
IN OPEN DUMPS	0.500		0	0	0	NR	NR	0
IN SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
IN LUST	0.500		2	7	10	NR	NR	19

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
IN UST	0.250		4	5	NR	NR	NR	9
IN AST	0.125		0	NR	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
IN AUL	0.500		5	2	4	NR	NR	11
Lists of state and tribal voluntary cleanup sites								
IN VCP	0.500		2	0	0	NR	NR	2
IN SCP	0.500		7	5	10	NR	NR	22
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
IN BROWNFIELDS	0.500	1	6	4	9	NR	NR	20
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500	1	3	1	4	NR	NR	9
Local Lists of Landfill / Solid Waste Disposal Sites								
IN SWRCY	0.500		0	2	4	NR	NR	6
IN SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
IN CDL	0.001		0	NR	NR	NR	NR	0
IN DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
IN SPILLS	TP		NR	NR	NR	NR	NR	0
IN SPILLS 90	0.001		0	NR	NR	NR	NR	0
IN SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		9	3	NR	NR	NR	12

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	1	0	NR	1
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
IN PFAS	0.250		0	0	NR	NR	NR	0
IN AIRS	0.001		0	NR	NR	NR	NR	0
IN ASBESTOS	0.001		0	NR	NR	NR	NR	0
IN BULK	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IN CFO	0.001		0	NR	NR	NR	NR	0
IN COAL ASH	0.500		0	0	0	NR	NR	0
IN DRYCLEANERS	0.250		13	32	NR	NR	NR	45
IN Financial Assurance	0.001		0	NR	NR	NR	NR	0
IN IND WASTE	0.250		1	1	NR	NR	NR	2
IN MANIFEST	0.250		10	6	NR	NR	NR	16
PA MANIFEST	0.250		1	0	NR	NR	NR	1
IN NPDES	0.001		0	NR	NR	NR	NR	0
IN OISC	0.250		0	2	NR	NR	NR	2
IN TIER 2	0.001		0	NR	NR	NR	NR	0
IN UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		1	0	0	0	NR	1
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
IN RGA HWS	0.001		0	NR	NR	NR	NR	0
IN RGA LF	0.001		0	NR	NR	NR	NR	0
IN RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	67	73	48	0	0	191

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **COLLEGE SQUARE** **IN BROWNFIELDS** **S125229514**
Target **216 S COLLEGE AVE** **N/A**
Property **BLOOMINGTON, IN 47404**

Site 1 of 8 in cluster A

Actual: **753 ft.**

IN BROWNFIELD:

Name:	COLLEGE SQUARE
Address:	216 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4190505
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 5/29/2019
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

A2 **COMMERCIAL PROPERTY - 216 COLLEGE** **US BROWNFIELDS** **1025994718**
Target **216 S. COLLEGE AVENUE** **FINDS** **N/A**
Property **BLOOMINGTON, IN 47404**

Site 2 of 8 in cluster A

Actual: **753 ft.**

US BROWNFIELDS:

Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
Latitude:	39.1651982
Longitude:	-86.5357277
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.
Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site.

Below Poverty Number:	3788
Below Poverty Percent:	64.29
Meidan Income:	3871
Meidan Income Number:	4511
Meidan Income Percent:	76.56
Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89
Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
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HCM Label:	-
Map Scale:	-
Point of Reference:	-
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Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	4/3/2019
Ownership Entity:	Government
Completion Date:	5/29/2019
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site.
Below Poverty Number:	3788
Below Poverty Percent:	64.29
Meidan Income:	3871
Meidan Income Number:	4511
Meidan Income Percent:	76.56

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89
Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
Latitude:	39.1651982
Longitude:	-86.5357277
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.
Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site.
Below Poverty Number:	3788
Below Poverty Percent:	64.29
Meidan Income:	3871
Meidan Income Number:	4511
Meidan Income Percent:	76.56
Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89
Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
Latitude:	39.1651982
Longitude:	-86.5357277
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.
Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
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HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.

Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site.
Below Poverty Number:	3788
Below Poverty Percent:	64.29
Meidan Income:	3871
Meidan Income Number:	4511
Meidan Income Percent:	76.56
Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89

Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
Latitude:	39.1651982
Longitude:	-86.5357277
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

	Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.
Datum:	-
Acres Property ID:	239649
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	32328
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	5/13/2019
Ownership Entity:	Government
Completion Date:	7/3/2019
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site.
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Below Poverty Percent:	64.29
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Meidan Income Number:	4511
Meidan Income Percent:	76.56
Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89
Name:	COMMERCIAL PROPERTY - 216 COLLEGE
Address:	216 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-240.000-005, 53-05-33-310-243.000-005
Parcel size:	1.77
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HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons (wealth advisors). The large parcel (with the commercial building) on Subject Site is currently owned by Rbowa LLC. The two (2) small parcels located near the northeast portion of the Subject Site are owned by Thomas Sicks & Nancy Held. The large parcel is currently owned by the Bloomington Redevelopment Commission. The Subject Site had two (2) former gas stations that operated in the northeast quadrant of the Subject Site. Commercial Building & Parking Lot - Planned redevelopment includes the expansion of the convention center to include a 20K-30K sq foot expansion of the current convention center, $35-$45 million for the convention center expansion. This project is being planned in conjunction with the construction of a convention center garage on the 310 S College site; with a projected redevelopment costs of $17 million.
Datum:	-
Acres Property ID:	239649
IC Data Access:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	Bloomington Redevelopment Commission & Thomas Sicks & Nancy Held
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	1.77
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	1.77
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Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a commercial office building property located at 216 S. College Avenue in Bloomington, Indiana. The current building occupants include the Campus Costume Store (retail) and Hilliard Lyons

COMMERCIAL PROPERTY - 216 COLLEGE (Continued) **1025994718**

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Meidan Income Number:	4511
Meidan Income Percent:	76.56
Vacant Housing Number:	371
Vacant Housing Percent:	11.9
Unemployed Number:	288
Unemployed Percent:	4.89

FINDS:
Registry ID: 110070616026

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A3 **JERRYS DIAGNOSTIC CTR INC** **RCRA NonGen / NLR** **1000372942**
ESE **211 S COLLEGE** **FINDS** **IND075957175**
< 1/8 **BLOOMINGTON, IN 47404** **ECHO**
0.029 mi. **IN MANIFEST**
153 ft. **Site 3 of 8 in cluster A**

Relative: **Lower**
Actual: **750 ft.**

RCRA Listings:

Date Form Received by Agency:	20040611
Handler Name:	Jerrys Diagnostic Ctr Inc
Handler Address:	211 S COLLEGE
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND075957175
Contact Name:	PHYLLIS KREBBS
Contact Address:	211 S COLLEGE
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-339-5800
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	211 S COLLEGE

JERRYS DIAGNOSTIC CTR INC (Continued) **1000372942**

Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	Krebbs Phyllis And Jerry
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE

JERRYS DIAGNOSTIC CTR INC (Continued) **1000372942**

USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: KREBBS PHYLLIS AND JERRY
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: KREBBS PHYLLIS AND JERRY
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED

JERRYS DIAGNOSTIC CTR INC (Continued) **1000372942**

Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040611
Handler Name: JERRYS DIAGNOSTIC CTR INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19860919
Handler Name: JERRYS DIAGNOSTIC CTR INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010110
Handler Name: JERRYS DIAGNOSTIC CTR INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

JERRYS DIAGNOSTIC CTR INC (Continued) **1000372942**

FINDS:
Registry ID: 110003083975

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000372942
Registry ID:	110003083975
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003083975
Name:	JERRYS DIAGNOSTIC CTR INC
Address:	211 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47404

IN MANIFEST:

Name:	JERRYS DIAGNOSTIC CTR INC
Address:	211 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND075957175
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	IND075957175
Generator Type:	Not reported
Generator Status:	Dead Mail, mail was returned
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported

JERRYS DIAGNOSTIC CTR INC (Continued) **1000372942**

TSD Status:	Not reported
Handler Mailing Address:	211 S COLLEGE
Handler Mailing City/State/Zip:	BLOOMINGTON, IN 47401
Contact Name:	JERRY KREBBS
Contact Telephone:	812-339-5800
Contact Type:	Environmental Coordinator

Name:	JERRYS DIAGNOSTIC CTR INC
Address:	211 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND075957175
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	JERRYS DIAGNOSTIC CTR INC
Address:	211 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND075957175
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

A4 **COLLEGE LAUNDRY** **IN DRYCLEANERS** **S128148459**
NE **121 S COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.030 mi.
159 ft. **Site 4 of 8 in cluster A**

Relative:
Higher

Actual:
761 ft.

DRYCLEANERS 2:

Name:	COLLEGE LAUNDRY
Last Facility Name:	College Laundry
Address:	121 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported

COLLEGE LAUNDRY (Continued) **S128148459**

Reference Address:	121 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1938
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2647
ADDR ID:	1354
Latitude:	39.1663
Longitude:	-86.5348
Name:	COLLEGE LAUNDRY
Last Facility Name:	College Laundry
Address:	121 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	121 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1945
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2649
ADDR ID:	1354
Latitude:	39.1663
Longitude:	-86.5348

A5 **WOUNDERLAB MUSEUM** **IN SCP** **S105469586**
WNW **300 W. 4TH ST.** **IN SPILLS** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.031 mi.
166 ft. **Site 5 of 8 in cluster A**

Relative:
Higher

Actual:
755 ft.

SCP:

Name:	WOUNDERLAB MUSEUM
Address:	300 W. 4TH ST.
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	200204230
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	NFA
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

SPILL:

Name:	Not reported
Address:	300 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47404

WOUNDERLAB MUSEUM (Continued) **S105469586**

Facility ID:	200204230
Incident Date:	04/25/2002
Report Date:	04/25/2002
Material:	Petroleum
Spill Source:	Commercial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Other
Area Affected:	SOIL
Fish Killed:	Not reported
Water Supply Affected:	Not reported
Public Intake:	N
Incident Status:	Not reported

A6 **WONDERLAB MUSEUM** **IN SCP** **S118843677**
WNW **308 W 4TH ST** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.034 mi.
177 ft. **Site 6 of 8 in cluster A**

Relative:
Higher

Actual:
755 ft.

SCP:

Name:	WONDERLAB MUSEUM
Address:	308 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	44578
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	51445283
Date:	07/16/2002
Program:	State Cleanup
Document Type:	Correspondence
Size:	22 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	WONDERLAB MUSEUM
Address:	308 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	44578
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	48641652
Date:	07/01/2002
Program:	State Cleanup
Document Type:	Correspondence
Size:	29 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

WONDERLAB MUSEUM (Continued) **S118843677**

Name: WONDERLAB MUSEUM
Address: 308 W 4TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 44578
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48641650
Date: 05/15/2002
Program: State Cleanup
Document Type: Correspondence
Size: 34 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: WONDERLAB MUSEUM
Address: 308 W 4TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 44578
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48621113
Date: 07/16/2002
Program: State Cleanup
Document Type: Site Closure
Size: 31 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: WONDERLAB MUSEUM
Address: 308 W 4TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 44578
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48620741
Date: 04/25/2002
Program: State Cleanup
Document Type: Emergency Response
Size: 109 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: WONDERLAB MUSEUM
Address: 308 W 4TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 44578
Facility Type: Not reported
Site ID: Not reported

WONDERLAB MUSEUM (Continued) **S118843677**

Indicator Name: Not reported
Doc Number: 48533986
Date: 07/12/2002
Program: State Cleanup
Document Type: Site Closure
Size: 9 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

A7 **WONDERLAB MUSEUM** **RCRA NonGen / NLR** **1005443504**
WNW **308 W FOURTH ST** **FINDS** **INR000106831**
< 1/8 **BLOOMINGTON, IN 47404** **ECHO**
0.034 mi. **IN MANIFEST**
177 ft. **Site 7 of 8 in cluster A**

Relative: **Higher**
Actual: **755 ft.**

RCRA Listings:

Date Form Received by Agency:	20030214
Handler Name:	Wonderlab Museum
Handler Address:	308 W FOURTH ST
Handler City,State,Zip:	BLOOMINGTON, IN 47404
EPA ID:	INR000106831
Contact Name:	CATHY OLMER
Contact Address:	116 W SIXTH ST
Contact City,State,Zip:	BLOOMINGTON, IN 47404
Contact Telephone:	812-337-1337
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	116 W SIXTH ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47404
Owner Name:	Wonderlab Museum
Owner Type:	Private
Operator Name:	Wonderlab Museum
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No

WONDERLAB MUSEUM (Continued) **1005443504**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D008
Waste Description:	LEAD

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: WONDERLAB MUSEUM	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	116 W SIXTH ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	812-337-1337
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: WONDERLAB MUSEUM	
Legal Status:	Private
Date Became Current:	20030214
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

WONDERLAB MUSEUM (Continued) **1005443504**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WONDERLAB MUSEUM
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 116 W SIXTH ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47404
Owner/Operator Telephone: 812-337-1337
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020521
Handler Name: WONDERLAB MUSEUM
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030214
Handler Name: WONDERLAB MUSEUM
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11111
NAICS Description: SOYBEAN FARMING

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

WONDERLAB MUSEUM (Continued) **1005443504**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20020925
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	SLOWR
Evaluation Responsible Sub-Organization:	IWG
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110012574491

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource

WONDERLAB MUSEUM (Continued) **1005443504**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1005443504
Registry ID:	110012574491
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012574491
Name:	WONDERLAB MUSEUM
Address:	308 W FOURTH ST
City,State,Zip:	BLOOMINGTON, IN 47404

IN MANIFEST:

Name:	WONDERLAB MUSEUM
Address:	308 W FOURTH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	INR000106831
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	INR000106831
Generator Type:	Not reported
Generator Status:	No longer a generator of hazardous wastes
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported
TSD Status:	Not reported
Handler Mailing Address:	308 W FOURTH ST
Handler Mailing City/State/Zip:	BLOOMINGTON, IN 47404
Contact Name:	CATHY OLMER
Contact Telephone:	812-337-1337
Contact Type:	A

Name:	WONDERLAB MUSEUM
Address:	308 W FOURTH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	INR000106831
Tons Generated:	Not reported

WONDERLAB MUSEUM (Continued) **1005443504**

Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	WONDERLAB MUSEUM
Address:	308 W FOURTH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	INR000106831
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

A8 **SAM MOY** **IN DRYCLEANERS** **S128148132**
NE **119 S COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.034 mi.
178 ft. **Site 8 of 8 in cluster A**

Relative:
Higher

Actual:
762 ft.

DRYCLEANERS 2:

Name:	SAM MOY
Last Facility Name:	College-av Laundry
Address:	119 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	119 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1913
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2629
ADDR ID:	1237
Latitude:	39.1663
Longitude:	-86.5348

Name:	MOY SAM
Last Facility Name:	College-av Laundry
Address:	119 S COLLEGE AVE

SAM MOY (Continued) **S128148132**

City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1916
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2631
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: MOY SAM
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1918
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2633
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: MOY SAM
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1920
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2634
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: MOY SAM
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018

SAM MOY (Continued) **S128148132**

Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1922
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2636
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: COLLEGE-AV LAUNDRY
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1929
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2638
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: COLLEGE-AV LAUNDRY
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1931
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2640
ADDR ID: 1237
Latitude: 39.1663
Longitude: -86.5348

Name: COLLEGE-AV LAUNDRY
Last Facility Name: College-av Laundry
Address: 119 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 S College Ave
Reference City: Bloomington

SAM MOY (Continued) **S128148132**

Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2642
ADDR ID:	1237
Latitude:	39.1663
Longitude:	-86.5348

B9 **MEISTER & KINSER** **IN DRYCLEANERS** **S128147483**
NNE **115 S COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.041 mi.
217 ft. **Site 1 of 6 in cluster B**

Relative:
Higher

Actual:
763 ft.

DRYCLEANERS 2:

Name:	STEINMETZ JAMES H
Last Facility Name:	Meister & Kinser
Address:	115 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	115.5 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1922
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2620
ADDR ID:	1088
Latitude:	39.1671
Longitude:	-86.5354

Name:	MEISTER & KINSER
Last Facility Name:	Meister & Kinser
Address:	115 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	115.5 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1929
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2622
ADDR ID:	1088
Latitude:	39.1671
Longitude:	-86.5354

B10 **FREIGHT DEPOT** **IN AUL** **S112234591**
NNW **217 W KIRKWOOD AVE** **IN BROWNFIELDS** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.042 mi.
224 ft. **Site 2 of 6 in cluster B**

Relative:
Higher

Actual:
757 ft.

AUL:

Name:	FREIGHT DEPOT
Address:	217 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4121015
Program Area:	Brownfields
Affected Media:	Surface Soil
Date Ic Recorded:	04/09/2013
Description:	BFF Comfort Letter 1/24/2013
Control Method A:	Agricultural or Food Crop; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Metals
Comments A:	Not reported
Master AI ID:	105705
IC ID:	797
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=67849417

IN BROWNFIELD:

Name:	FREIGHT DEPOT
Address:	217 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4121015
Project Manager:	Jill Henderson
AI Id:	105700
Financial Assistance:	Not reported
Other Assistance:	Comfort Letter 1/23/2013
ERC Not Required:	Yes
Land Use Restriction:	No residential and agricultural (metals in soil)
Recordation Date or Letter:	4/9/013

B11 **BEEM & MORRIS** **IN DRYCLEANERS** **S128154664**
North **108 S COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.043 mi.
228 ft. **Site 3 of 6 in cluster B**

Relative:
Higher

Actual:
762 ft.

DRYCLEANERS 2:

Name:	BEEM & MORRIS
Last Facility Name:	Davis Cleaners & Tailors
Address:	108 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	108 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1929
Reference Name:	Caron's City Directory
Reference Notes:	Not reported

BEEM & MORRIS (Continued) **S128154664**

Reference ID: 2542
ADDR ID: 549
Latitude: 39.1664
Longitude: -86.5349

Name: BEEM & DAVIS
Last Facility Name: Davis Cleaners & Tailors
Address: 108 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 108 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1931
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2544
ADDR ID: 549
Latitude: 39.1664
Longitude: -86.5349

Name: BEEM & DAVIS
Last Facility Name: Davis Cleaners & Tailors
Address: 108 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 108 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1934
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2546
ADDR ID: 549
Latitude: 39.1664
Longitude: -86.5349

Name: DAVIS CLEANERS & TAILORS
Last Facility Name: Davis Cleaners & Tailors
Address: 108 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 108 S College Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1945
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2548
ADDR ID: 549
Latitude: 39.1664

BEEM & MORRIS (Continued) **S128154664**

Longitude:	-86.5349
Name:	DAVIS CLEANERS & TAILORS
Last Facility Name:	Davis Cleaners & Tailors
Address:	108 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	108 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2550
ADDR ID:	549
Latitude:	39.1664
Longitude:	-86.5349
Name:	DAVIS CLEANERS & TAILORS
Last Facility Name:	Davis Cleaners & Tailors
Address:	108 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	108 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2551
ADDR ID:	549
Latitude:	39.1664
Longitude:	-86.5349
Name:	DAVIS CLEANERS & TAILORS
Last Facility Name:	Davis Cleaners & Tailors
Address:	108 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	108 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1952
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2552
ADDR ID:	549
Latitude:	39.1664
Longitude:	-86.5349
Name:	DAVIS CLEANERS & TAILORS

BEEM & MORRIS (Continued) **S128154664**

Last Facility Name:	Davis Cleaners & Tailors
Address:	108 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	108 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2554
ADDR ID:	549
Latitude:	39.1664
Longitude:	-86.5349

C12 **4TH STREET GARAGE** **US BROWNFIELDS** **1026109911**
East **105 W. 4TH STREET** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.051 mi.
269 ft. **Site 1 of 5 in cluster C**

Relative: US BROWNFIELDS:
Higher

Actual: Name:	4TH STREET GARAGE
756 ft. Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-

4TH STREET GARAGE (Continued) **1026109911**

Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-

4TH STREET GARAGE (Continued) **1026109911**

Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6

4TH STREET GARAGE (Continued) **1026109911**

Unemployed Number:	287
Unemployed Percent:	4.47
Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N

4TH STREET GARAGE (Continued) **1026109911**

Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47

Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical

4TH STREET GARAGE (Continued) **1026109911**

gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.

Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	4971
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	7/10/2019
Ownership Entity:	Government
Completion Date:	9/20/2019
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-

4TH STREET GARAGE (Continued) **1026109911**

Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-

4TH STREET GARAGE (Continued) **1026109911**

SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47
Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	4628

4TH STREET GARAGE (Continued) **1026109911**

Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	10/2/2019
Ownership Entity:	Government
Completion Date:	9/20/2020
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47

4TH STREET GARAGE (Continued) **1026109911**

Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	27985
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	10/1/2019
Ownership Entity:	Government
Completion Date:	9/29/2020
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N

4TH STREET GARAGE (Continued) **1026109911**

IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47

Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of

4TH STREET GARAGE (Continued) **1026109911**

the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.

Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-

4TH STREET GARAGE (Continued) **1026109911**

Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47
Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-

4TH STREET GARAGE (Continued) **1026109911**

Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-

4TH STREET GARAGE (Continued) **1026109911**

Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47
Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404

4TH STREET GARAGE (Continued) **1026109911**

Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	7/10/2019
Ownership Entity:	Government
Completion Date:	9/27/2019
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-

4TH STREET GARAGE (Continued) **1026109911**

IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-

4TH STREET GARAGE (Continued) **1026109911**

Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47

Name:	4TH STREET GARAGE
Address:	105 W. 4TH STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-176.000-005
Parcel size:	0.74
Latitude:	39.1654162
Longitude:	-86.5340872
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site was most recently a parking garage located at 105 W. 4th Street in Bloomington, Indiana. The parking garage has been demolished. The redevelopment of the site will take place in the near future. The current owner of the Subject Site is the City of Bloomington. Histocially the site was: A historical gasoline filling station with two (2) USTs operated on the northeastern portion of the Subject Site from the 1920s until possibly 1937; A used car lot operated on the southeastern portion of the Subject Site during the late 1940s; Field Glove Co. manufactures and the elevator associated with their warehouse operated during the late 1920 s on the north-central portion of the Subject Site; The

4TH STREET GARAGE (Continued) **1026109911**

former parking garage has been demolished and a new/improved garage is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.

Datum:	-
Acres Property ID:	241119
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	17379978
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	10/1/2019
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	N
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.74
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	0.74
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-

4TH STREET GARAGE (Continued) **1026109911**

Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	Not reported
Below Poverty Number:	4320
Below Poverty Percent:	67.24
Meidan Income:	3499
Meidan Income Number:	5041
Meidan Income Percent:	78.46
Vacant Housing Number:	416
Vacant Housing Percent:	12.6
Unemployed Number:	287
Unemployed Percent:	4.47

C13 **ADAM WASON, BLOOMINGTON CITY** **IN BROWNFIELDS S125229521**
East **105 W 4TH ST** **IN NPDES N/A**
< 1/8 **BLOOMINGTON, IN 47408**
0.051 mi.
269 ft. **Site 2 of 5 in cluster C**

Relative: **Higher**
Actual: **756 ft.**

IN BROWNFIELD:

Name:	WEST 4TH ST PARKING GARAGE
Address:	105 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4190606
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 7/8/2019
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

Name:	WEST 4TH ST PARKING GARAGE
Address:	105 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4190606
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 7/9/2019
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

NPDES:

Name:	ADAM WASON, BLOOMINGTON CITY
Address:	105 W 4TH ST
City,State,Zip:	BLOOMINGTON, IN 47408
Permit Number:	INRA04753
Primary Facility Sic Code:	Not reported
Major/Minor:	Minor
Primary Facility Sic Desc:	Not reported
Facility Type Desc:	Not reported
Permit Status Desc:	Effective
Issue Date:	11/26/2019
Expired Date:	11/25/2024

ADAM WASON, BLOOMINGTON CITY (Continued) **S125229521**

Effective Date:	11/26/2019
Terminated Date:	Not reported
DMR Cognizant Official:	Not reported
DMR Cognizant Telephone:	Not reported
Waterbody:	Not reported
Total Actual Average Flow (MGD):	Not reported
Total App. Design Flow (MGD):	Not reported
FRS HUC Code:	05120208
Latitude In Decimal Degrees:	39.164994
Longitude In Decimal Degrees:	-86.534005

D14 **BLOOMINGTON TIRE CO** **IN UST** **1000451513**
SSE **301 S COLLEGE** **IN AUL** **IND984877506**
< 1/8 **BLOOMINGTON, IN 47403** **IN BROWNFIELDS**
0.053 mi. **RCRA NonGen / NLR**
281 ft. **Site 1 of 5 in cluster D** **FINDS**
ECHO
Relative: **IN MANIFEST**
Lower

Actual: **747 ft.**

UST:

Name:	BLOOMINGTON TIRE CO INC
Address:	301 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	8705
Owner Id:	3783
Company Name:	Bloomington Tire Co Inc
Mailing Address:	301 S College Ave
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47401
Tank Number:	1
AI ID:	40569
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	250
Substance Desc:	Used Oil
Closed Date:	08/01/1989

AUL:

Name:	BLOOMINGTON TIRE COMPANY
Address:	301 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4060002
Program Area:	Brownfields
Affected Media:	Not reported
Date Ic Recorded:	08/09/2006
Description:	BFF Comfort Letter 5/30/2006
Control Method A:	Maintain Vapor Mitigation System; Paved or Concrete Cap; Excavation Notice Required; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property; Portion of Property
Chemicals Of Concern A:	Not reported
Comments A:	A vapor mitigation system is required in any new building constructed on the real estate.
Master AI ID:	40569

BLOOMINGTON TIRE CO (Continued) **1000451513**

IC ID: 386
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=16537659

IN BROWNFIELD:
Name: BLOOMINGTON TIRE CO
Address: 301 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 4060002
Project Manager: Not reported
AI Id: Not reported
Financial Assistance: Remediation Grant awarded 7/20/2007 Remediation Grant awarded 9/15/2006
Other Assistance: Inactive Warning Letter 10/24/2019 Comfort Letter 5/30/2006
ERC Not Required: Yes
Land Use Restriction: No residential, agriculture, water wells, excavation below 18 inches. Maintain cover/vapor mitigation (metals, TPH, PCBs in soil and metals, VOCs, SVOCs in groundwater)
Recordation Date or Letter: 8/9/2006

RCRA Listings:
Date Form Received by Agency: 20020415
Handler Name: Bloomington Tire Co
Handler Address: 301 S COLLEGE
Handler City,State,Zip: BLOOMINGTON, IN 47401
EPA ID: IND984877506
Contact Name: LARRY DAVIS
Contact Address: 301 S COLLEGE
Contact City,State,Zip: BLOOMINGTON, IN 47401
Contact Telephone: 812-332-9255
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 05
Land Type: Other
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 301 S COLLEGE
Mailing City,State,Zip: BLOOMINGTON, IN 47401
Owner Name: Davis Larry
Owner Type: Private
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

BLOOMINGTON TIRE CO (Continued) **1000451513**

Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DAVIS LARRY	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	301 S COLLEGE
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47401
Owner/Operator Telephone:	317-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19900803
Handler Name: BLOOMINGTON TIRE CO	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported

BLOOMINGTON TIRE CO (Continued) **1000451513**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020415
Handler Name: BLOOMINGTON TIRE CO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number: Not reported	
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type: Not reported	
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number: Not reported	
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported

BLOOMINGTON TIRE CO (Continued) **1000451513**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20110303
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KWHIT
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110003102062

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000451513
Registry ID:	110003102062
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003102062
Name:	BLOOMINGTON TIRE CO
Address:	301 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47403

IN MANIFEST:
Name: BLOOMINGTON TIRE CO

BLOOMINGTON TIRE CO (Continued) **1000451513**

Address: 301 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND984877506
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND984877506
Generator Type: Not reported
Generator Status: No longer a generator of hazardous wastes
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 301 S COLLEGE
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47401
Contact Name: LARRY M DAVIS
Contact Telephone: 812-332-9255
Contact Type: Environmental Coordinator

Name: BLOOMINGTON TIRE CO
Address: 301 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND984877506
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: BLOOMINGTON TIRE CO
Address: 301 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND984877506
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported

BLOOMINGTON TIRE CO (Continued) **1000451513**

Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

B15
NNE
< 1/8
0.064 mi.
340 ft.

RYORS & BEEM **IN DRYCLEANERS** **S128152751**
103 S COLLEGE AVE **N/A**
BLOOMINGTON, IN

Site 4 of 6 in cluster B

Relative:
Higher

Actual:
767 ft.

DRYCLEANERS 2:

Name:	RYORS & BEEM
Last Facility Name:	Ryors & Beem
Address:	103 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	103 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1920
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2527
ADDR ID:	349
Latitude:	39.1665
Longitude:	-86.5348

Name:	RYORS & BEEM
Last Facility Name:	Ryors & Beem
Address:	103 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	103 S College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1922
Reference Name:	Caron’s City Directory
Reference Notes:	Stand alone ad (1922-23)
Reference ID:	2529
ADDR ID:	349
Latitude:	39.1665
Longitude:	-86.5348

C16 **JUAN SELLS - 222 WALNUT** **US BROWNFIELDS** **1026729051**
ESE **222 S. WALNUT** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.067 mi.
355 ft. **Site 3 of 5 in cluster C**

Relative: **Lower**
Actual: **748 ft.**

US BROWNFIELDS:

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City's attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City's attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City's attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City's attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City's attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

Name:	JUAN SELLS - 222 WALNUT
Address:	222 S. WALNUT
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-310-173.000-005
Parcel size:	0.14
Latitude:	39.16476
Longitude:	-86.5340055
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Courts ruled against the City’s attempts to obtain the property for reconstruction/redevelopment purposes. The Phase I was cancelled. No action is planned at this time.
Datum:	-
Acres Property ID:	242751
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.14
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-

JUAN SELLS - 222 WALNUT (Continued) **1026729051**

Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3945
Below Poverty Percent:	65.16
Meidan Income:	3423
Meidan Income Number:	4681
Meidan Income Percent:	77.32
Vacant Housing Number:	370
Vacant Housing Percent:	11.71
Unemployed Number:	290
Unemployed Percent:	4.79

C17 **JUANSELLS REALTY** **IN BROWNFIELDS** **S125479829**
ESE **222 S WALNUT ST** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.067 mi.
355 ft. **Site 4 of 5 in cluster C**

Relative: **Lower**
Actual: **748 ft.**

IN BROWNFIELD:

Name:	JUANSELLS REALTY
Address:	222 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4191008
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 10/25/2019
ERC Not Required:	NR
Land Use Restriction:	Not reported

JUANSELLS REALTY (Continued) **S125479829**

Recordation Date or Letter: Not reported

B18 **DAVIS & HUCKLEBERRY** **IN DRYCLEANERS** **S128147233**
NNE **125 W KIRKWOOD AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.074 mi.
393 ft. **Site 5 of 6 in cluster B**

Relative:
Higher

Actual:
771 ft.

DRYCLEANERS 2:

Name:	DAVIS & HUCKLEBERRY
Last Facility Name:	Davis & Huckleberry
Address:	125 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Poor
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	First National Bank Bldg
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1913
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	3429
ADDR ID:	10119
Latitude:	39.1665
Longitude:	-86.5339

B19 **STEINMETZ & PEEBLES** **IN DRYCLEANERS** **S128151147**
NE **101 W KIRKWOOD AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.076 mi.
401 ft. **Site 6 of 6 in cluster B**

Relative:
Higher

Actual:
772 ft.

DRYCLEANERS 2:

Name:	STEINMETZ & PEEBLES
Last Facility Name:	Steinmetz James H.
Address:	101 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	101.5 W Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1916
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2514
ADDR ID:	184
Latitude:	39.1662
Longitude:	-86.5342

Name:	STEINMETZ & PEEBLES
Last Facility Name:	Steinmetz James H.
Address:	101 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN

STEINMETZ & PEEBLES (Continued) **S128151147**

Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	101.5 W Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1918
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2516
ADDR ID:	184
Latitude:	39.1662
Longitude:	-86.5342
Name:	STEINMETZ JAMES H.
Last Facility Name:	Steinmetz James H.
Address:	101 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	101.5 W Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1920
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2517
ADDR ID:	184
Latitude:	39.1662
Longitude:	-86.5342

D20 **ODANIEL TOM FORD** **RCRA NonGen / NLR** **1000463901**
SSE **302 S COLLEGE AVE** **IN MANIFEST** **IND016210627**
< 1/8 **BLOOMINGTON, IN 47401**
0.079 mi.
416 ft. **Site 2 of 5 in cluster D**

Relative: **Lower**
Actual: **746 ft.**

RCRA Listings:

Date Form Received by Agency:	20040609
Handler Name:	Odaniel Tom Ford
Handler Address:	302 S COLLEGE AVE
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND016210627
Contact Name:	JOHN HANSON
Contact Address:	302 S COLLEGE AVE
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-339-9791
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported

ODANIEL TOM FORD (Continued) **1000463901**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	302 S COLLEGE AVE
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	Odaniel Tom
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE

ODANIEL TOM FORD (Continued) **1000463901**

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: ODANIEL TOM
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ODANIEL TOM
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

ODANIEL TOM FORD (Continued) **1000463901**

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040609
Handler Name: ODANIEL TOM FORD
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19880921
Handler Name: ODANIEL TOM FORD
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

IN MANIFEST:
Name: O'DANIEL TOM FORD
Address: 302 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210627

ODANIEL TOM FORD (Continued) **1000463901**

Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND016210627
Generator Type: Not reported
Generator Status: 1
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 2200 S WALNUT ST
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47403
Contact Name: JOHN HANSON
Contact Telephone: 812-339-9791
Contact Type: Environmental Coordinator

Name: O'DANIEL TOM FORD
Address: 302 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210627
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: O'DANIEL TOM FORD
Address: 302 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210627
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported

ODANIEL TOM FORD (Continued) **1000463901**

Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

D21 **TOM O'DANIEL INC** **IN LUST** **U004003070**
SSE **302 S COLLEGE** **IN UST** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.079 mi.
416 ft. **Site 3 of 5 in cluster D**

Relative: **Lower**
Actual: **746 ft.**

LUST:
Name: TOM O'DANIEL INC
Address: 302 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 7480
Incident Number: 199104550
Description: NFA-Unconditional Closure
Priority: Low

UST:
Name: TOM O'DANIEL INC
Address: 302 S COLLEGE
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 7480
Owner Id: 4768
Company Name: Tom 0'daniel Inc
Mailing Address: 302 S College
Mailing Address 2: Not reported
Mailing City,St,Zip: Bloomington, IN 47401

Tank Number: 1
AI ID: 40205
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: Not reported
Substance Desc: Used Oil
Closed Date: 03/31/1991

D22 **BLOOMINGTON FORD** **RCRA NonGen / NLR** **1000334714**
SSE **302 S COLLEGE AVE** **FINDS** **IND984867978**
< 1/8 **BLOOMINGTON, IN 47403** **ECHO**
0.079 mi. **IN MANIFEST**
416 ft. **Site 4 of 5 in cluster D**

Relative: **Lower**
Actual: **746 ft.**

RCRA Listings:
Date Form Received by Agency: 19890316
Handler Name: Bloomington Ford
Handler Address: 302 S COLLEGE AVE
Handler City,State,Zip: BLOOMINGTON, IN 47401
EPA ID: IND984867978
Contact Name: GEORGE ROGERS
Contact Address: 302 S COLLEGE AVE
Contact City,State,Zip: BLOOMINGTON, IN 47401

BLOOMINGTON FORD (Continued) **1000334714**

Contact Telephone:	812-339-9791
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	302 S COLLEGE AVE
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	Martin Thomas C
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported

BLOOMINGTON FORD (Continued) **1000334714**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: MARTIN THOMAS C
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19890316
Handler Name: BLOOMINGTON FORD
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported

BLOOMINGTON FORD (Continued) **1000334714**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003075136

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000334714
Registry ID:	110003075136
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003075136
Name:	BLOOMINGTON FORD
Address:	302 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403

IN MANIFEST:

Name:	BLOOMINGTON FORD
Address:	302 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported

BLOOMINGTON FORD (Continued) **1000334714**

EPA ID: IND984867978
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND984867978
Generator Type: Not reported
Generator Status: 1
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 2200 S WALNUT ST
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47401
Contact Name: GEORGE ROGERS
Contact Telephone: 812-339-9791
Contact Type: Environmental Coordinator

Name: BLOOMINGTON FORD
Address: 302 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND984867978
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: BLOOMINGTON FORD
Address: 302 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND984867978
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported

BLOOMINGTON FORD (Continued) **1000334714**

TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

E23 **EXPERT TIRE** **IN AUL** **S112149644**
ESE **219 S WALNUT ST** **IN SCP** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.086 mi.
452 ft. **Site 1 of 6 in cluster E**

Relative:
Lower

Actual:
749 ft.

AUL:

Name:	EXPERT TIRE
Address:	219 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	201229097
Program Area:	State Cleanup
Affected Media:	Ground Water
Date Ic Recorded:	01/27/2014
Description:	SCS Closure 3/10/2014
Control Method A:	Ground Water Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Petroleum
Comments A:	Not reported
Master AI ID:	43849
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=69628089

SCP:

Name:	EXPERT TIRE
Address:	219 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	43849
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	69766721
Date:	03/10/2014
Program:	State Cleanup
Document Type:	Site Closure
Size:	23 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	EXPERT TIRE
Address:	219 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	43849
Facility Type:	Not reported
Site ID:	Not reported

EXPERT TIRE (Continued) **S112149644**

Indicator Name: Not reported
Doc Number: 69628089
Date: 02/12/2014
Program: State Cleanup
Document Type: Institutional Control
Size: 100 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: EXPERT TIRE
Address: 219 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 43849
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 68240074
Date: 01/31/2013
Program: State Cleanup
Document Type: Site Characterization
Size: 9 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: EXPERT TIRE
Address: 219 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 43849
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 68240072
Date: 01/31/2013
Program: State Cleanup
Document Type: Site Closure
Size: 4 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: EXPERT TIRE
Address: 219 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 43849
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 68240073
Date: 01/31/2013
Program: State Cleanup
Document Type: Site Closure
Size: 24 M

EXPERT TIRE (Continued) **S112149644**

Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: EXPERT TIRE
Address: 219 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 43849
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 68240075
Date: 01/31/2013
Program: State Cleanup
Document Type: Site Characterization
Size: 11 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: EXPERT TIRE
Address: 219 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 43849
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 66110879
Date: 06/05/2012
Program: State Cleanup
Document Type: Site Closure
Size: 69 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

C24 **SHERWIN WILLIAMS CO THE** **RCRA NonGen / NLR** **1000371151**
East **205 S WALNUT ST** **FINDS** **IND072063415**
< 1/8 **BLOOMINGTON, IN 47404** **ECHO**
0.087 mi. **IN MANIFEST**
460 ft. **Site 5 of 5 in cluster C**

Relative: **Higher**

Actual: **753 ft.**

RCRA Listings:
Date Form Received by Agency: 19800818
Handler Name: Sherwin Williams Co The
Handler Address: 205 S WALNUT ST
Handler City,State,Zip: BLOOMINGTON, IN 47401
EPA ID: IND072063415
Contact Name: D ALEXANDER
Contact Address: 205 S WALNUT ST
Contact City,State,Zip: BLOOMINGTON, IN 47401
Contact Telephone: 216-566-3096
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	205 S WALNUT ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	Sherwin Williams Co
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F017
Waste Description:	Not Defined
Waste Code:	F018
Waste Description:	Not Defined
Waste Code:	P090
Waste Description:	Not Defined
Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U112
Waste Description: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U161
Waste Description: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SHERWIN WILLIAMS CO
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19800818
Handler Name: SHERWIN WILLIAMS CO THE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003083449

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000371151
Registry ID:	110003083449
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003083449
Name:	SHERWIN WILLIAMS CO THE
Address:	205 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47404

IN MANIFEST:

Name:	SHERWIN-WILLIAMS COMPANY THE
Address:	205 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND072063415

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND072063415
Generator Type: Not reported
Generator Status: No longer a generator of hazardous wastes
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 101 PROSPECT AVENUE N.W.
Handler Mailing City/State/Zip: CLEVELAND, OH 44115
Contact Name: Not reported
Contact Telephone: Not reported
Contact Type: Not reported

Name: SHERWIN-WILLIAMS COMPANY THE
Address: 205 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND072063415
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: SHERWIN-WILLIAMS COMPANY THE
Address: 205 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND072063415
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported

SHERWIN WILLIAMS CO THE (Continued) **1000371151**

Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

F25 **INDIANA GAS COMPANY INC** **IN UST** **U001078088**
West **205 S MADISON ST** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.090 mi.
474 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
758 ft.

UST:

Name:	INDIANA GAS COMPANY INC
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	4026
Owner Id:	5245
Company Name:	Indiana Gas Company Inc
Mailing Address:	PO Box 209 One Vectren Sq
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Evansville, IN 47702
Tank Number:	1
AI ID:	40285
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	2000
Substance Desc:	Gasoline
Closed Date:	01/31/1989

F26 **INDIANA GAS/BLOOMINGTON MGP** **EDR MGP** **1008408220**
West **205 S MADISON STREET** **N/A**
< 1/8 **BLOOMINGTON, IN 47407**
0.090 mi.
474 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
758 ft.

Manufactured Gas Plants:
No additional information available

F27 **IGC BLOOMINGTON SVC CTR** **IN VCP** **1004698863**
West **205 S MADISON ST** **RCRA NonGen / NLR** **IN0000962944**
< 1/8 **BLOOMINGTON, IN 47404** **FINDS**
0.090 mi. **ECHO**
474 ft. **Site 3 of 3 in cluster F** **IN MANIFEST**
PA MANIFEST

Relative:
Higher

Actual:
758 ft.

VCP:

Name:	INDIANA GAS COMPANY INC
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN
Status:	Active

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

VRP Id Number:	6000410
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Not reported
Project Manager:	Ridley
Convenant Not To Sue Date:	Not reported
Certificate of Completion Date:	Not reported
New Coding Number:	V00BE
App# Date:	03/13/2000
App# Acceptance:	Not reported
VRA executed:	02/24/2004
RWP Received:	10/27/2000
RWP Approved:	Not reported
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Inorganics
Media:	Subsurface Soil
Project Description:	Not reported
Past Actions:	Not reported
Issues and Impacts:	Not reported
Future Actions:	Not reported
Additional Comments:	Not reported

Name:	INDIANA GAS COMPANY INC
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN
Status:	Active
VRP Id Number:	6000410
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Not reported
Project Manager:	Ridley
Convenant Not To Sue Date:	Not reported
Certificate of Completion Date:	Not reported
New Coding Number:	V00BE
App# Date:	03/13/2000
App# Acceptance:	Not reported
VRA executed:	02/24/2004
RWP Received:	10/27/2000
RWP Approved:	Not reported
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Organics
Media:	Subsurface Soil
Project Description:	Not reported
Past Actions:	Not reported
Issues and Impacts:	Not reported
Future Actions:	Not reported
Additional Comments:	Not reported

RCRA Listings:

Date Form Received by Agency:	20230208
Handler Name:	Igc Bloomington Svc Ctr
Handler Address:	205 S MADISON ST
Handler City,State,Zip:	BLOOMINGTON, IN 47402
EPA ID:	IN0000962944
Contact Name:	MARK A WANNEMUELLER
Contact Address:	PO BOX 209
Contact City,State,Zip:	EVANSVILLE, IN 47702

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Contact Telephone:	812-491-4601
Contact Fax:	Not reported
Contact Email:	MARK.WANNEMUELLER@CENTERPOINTENERGY.COM
Contact Title:	SENIOR REGIONAL ENVIRONMENTAL SPECIALIST
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 209
Mailing City,State,Zip:	EVANSVILLE, IN 47702
Owner Name:	Indiana Gas Company Incorporated
Owner Type:	Private
Operator Name:	Indiana Gas Company Incorporated
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20230208
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D009
Waste Description: MERCURY

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U226
Waste Description: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702
Owner/Operator Telephone: 812-491-4666
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Owner/Operator Indicator: Operator
Owner/Operator Name: IGC-BLOOMINGTON SVC CTR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 8399 ZIONSVILLE RD
Owner/Operator City,State,Zip: INDIANAPOLIS, IN 46268
Owner/Operator Telephone: 317-321-0592
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: IGC-BLOOMINGTON SVC CTR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702
Owner/Operator Telephone: 812-491-4666
Owner/Operator Telephone Ext: Not reported

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: IGC-BLOOMINGTON SVC CTR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS CO INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Owner/Operator City,State,Zip: EVANSVILLE, IN 47702
Owner/Operator Telephone: 812-491-4666
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INDIANA GAS COMPANY INCORPORATED
Legal Status: Private
Date Became Current: 19941128
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 209
Owner/Operator City,State,Zip: EVANSVILLE, IN 47702-0209
Owner/Operator Telephone: 812-491-4000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19970830
Handler Name: INDIANA GAS CO INC BLOOMINGTON
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040107
Handler Name: IGC-BLOOMINGTON SVC CTR
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Receive Date: 20050210
Handler Name: IGC-BLOOMINGTON SVC CTR
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060227
Handler Name: IGC-BLOOMINGTON SVC CTR
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180404
Handler Name: IGC BLOOMINGTON SVC CTR
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20200108
Handler Name: IGC BLOOMINGTON SVC CTR
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20210218
Handler Name: IGC BLOOMINGTON SVC CTR
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20230208
Handler Name: IGC BLOOMINGTON SVC CTR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 22121
NAICS Description: NATURAL GAS DISTRIBUTION

NAICS Code: 221210
NAICS Description: NATURAL GAS DISTRIBUTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003067859

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004698863
Registry ID:	110003067859
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003067859
Name:	IGC BLOOMINGTON SVC CTR
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47404

IN MANIFEST:

Name:	IGC-BLOOMINGTON SVC CTR
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IN0000962944
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	IN0000962944
Generator Type:	CEG
Generator Status:	Active Handler
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported
TSD Status:	Not reported
Handler Mailing Address:	PO BOX 209
Handler Mailing City/State/Zip:	EVANSVILLE, IN 47702
Contact Name:	LISA MESSINGER
Contact Telephone:	812-491-4666
Contact Type:	Environmental Coordinator

Name:	IGC-BLOOMINGTON SVC CTR
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IN0000962944
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	IGC-BLOOMINGTON SVC CTR
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IN0000962944
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	IGC-BLOOMINGTON SVC CTR
Address:	205 S MADISON ST
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IN0000962944
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Details:

Year:	2006
Manifest Number:	PAH107652
Manifest Type:	TSD Copy
Generator EPA Id:	IN0000962944
Generator Date:	03/02/2006
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD002390961
TSD Date:	Not reported
TSD Facility Name:	BETHLEHEM APPARATUS CO INC
TSD Facility Address:	890 FRONT STREET
TSD Facility City:	HELLERTOWN

IGC BLOOMINGTON SVC CTR (Continued) **1004698863**

TSD Facility State:	PA
Facility Telephone:	812-491-4666
Page Number:	1
Line Number:	1
Waste Number:	D009
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	50
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2005
Manifest Number:	PAH107738
Manifest Type:	TSD Copy
Generator EPA Id:	IN0000962944
Generator Date:	02/21/2005
Mailing Address:	PO BOX 209
Mailing City,St,Zip:	EVANSVILLE, IN 47711
Contact Name:	LISA MESSINGER
Contact Phone:	812-491-4666
TSD EPA Id:	PAD002390961
TSD Date:	03/16/2005
TSD Facility Name:	BETHLEHEM APPARATUS CO INC
TSD Facility Address:	890 FRONT ST
TSD Facility City:	HELLERTOWN
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D009
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	55
Unit:	Gallons (liquids only)
Handling Code:	Not reported
TSP EPA Id:	IND058484114
Date TSP Sig:	02/21/2005

28
South
< 1/8
0.092 mi.
486 ft.

310 S. COLLEGE PARKING **US BROWNFIELDS** **1026463912**
310 S. COLLEGE AVENUE **N/A**
BLOOMINGTON, IN 47403

Relative:
Lower

Actual:
748 ft.

US BROWNFIELDS:

Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Point of Reference:	-
Highlights:	Parking Lot - Redevelopment includes the construction of the convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).
Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16
Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Parking Lot - Redevelopment includes the construction of the convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).
Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Ownership Entity:	Government
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16

Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-
Point of Reference:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Highlights:	Parking Lot - Redevelopment includes the construction of the convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).
Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16
Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Parking Lot - Redevelopment includes the construction of the convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).
Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	5/1/2020
Ownership Entity:	Government

310 S. COLLEGE PARKING (Continued) **1026463912**

Completion Date:	9/17/2020
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16

Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Parking Lot - Redevelopment includes the construction of the

310 S. COLLEGE PARKING (Continued) **1026463912**

convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).

Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16
Name:	310 S. COLLEGE PARKING
Address:	310 S. COLLEGE AVENUE
City,State,Zip:	BLOOMINGTON, IN 47403
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-04-208-003.000-009, -002.000-009, -171.000-009, -017.000-00, -149.000-009
Parcel size:	2.9
Latitude:	39.163777986
Longitude:	-86.53532402
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Parking Lot - Redevelopment includes the construction of the convention center garage with a projected redevelopment costs of $17 million. The redevelopment is planned to occur in conjunction with the convention center expansion project on the 216 S. College site (including 20K-30K sq foot expansion of current convention center, $35-$45 million for the convention center expansion).
Datum:	-
Acres Property ID:	243514
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	2.9
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-

310 S. COLLEGE PARKING (Continued) **1026463912**

Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	-
Below Poverty Number:	3421
Below Poverty Percent:	60.82
Meidan Income:	3098
Meidan Income Number:	4142
Meidan Income Percent:	73.64
Vacant Housing Number:	311
Vacant Housing Percent:	10.53
Unemployed Number:	290
Unemployed Percent:	5.16

D29 **COURTESY CLEANERS** **IN DRYCLEANERS** **S108162330**
SE **312 E WALNUT** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.093 mi.
491 ft. **Site 5 of 5 in cluster D**

Relative:
Lower

Actual:
745 ft.

IN Dryclean:

Facility ID:	IN0503477
Alias Name:	Not reported
Facility Telephone:	812/323-2225
Contact Name:	MIKE HARPER
Contact Phone:	Not reported
Address:	312 E 3RD ST
City:	BLOOMINGTON
State:	IN

COURTESY CLEANERS (Continued) **S108162330**

Zip Code:	47401
Zip4:	3515
Comment:	Not reported
Violation:	Not reported
Perc Gallons:	0
Estimated Perc Gallons:	Not reported
RMEN Closed:	Not reported
Other:	Not reported
Int Received Date:	Not reported
Prev Received Date:	Not reported
Cntrl Received Date:	Not reported
Class/Mach:	Not reported
Five Star:	Not reported
Cmpl Action:	Not reported
Inspection Date:	7/21/98
Inspector:	Not reported
Mailed Date:	Not reported
Status:	PU
Cause:	Not reported
Date Response:	Not reported
PO Notes:	Not reported

G30 **QUALITY CLEANERS** **IN DRYCLEANERS** **S128154291**
North **107 N COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.098 mi.
520 ft. **Site 1 of 3 in cluster G**

Relative: **Higher**

Actual: **767 ft.**

DRYCLEANERS 2:

Name:	QUALITY CLEANERS
Last Facility Name:	Quality Cleaners
Address:	107 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	107 N College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2539
ADDR ID:	509
Latitude:	39.1669
Longitude:	-86.5352

E31 **3RD ST SHELL** **EDR Hist Auto** **1021185448**
ESE **301 S WALNUT** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.100 mi.
530 ft. **Site 2 of 6 in cluster E**

Relative: EDR Hist Auto
Lower

Actual: **746 ft.**

Year:	Name:	Type:
1987	3RD ST SHELL	Gasoline Service Stations
1988	3RD ST SHELL	Gasoline Service Stations
1989	3RD ST SHELL	Gasoline Service Stations
1990	3RD ST SHELL	Gasoline Service Stations
1991	3RD ST SHELL	Gasoline Service Stations
1992	3RD ST SHELL	Gasoline Service Stations
1993	3RD ST SHELL	Gasoline Service Stations
1994	3RD ST SHELL	Gasoline Service Stations
1995	3RD ST SHELL	Gasoline Service Stations
1996	3RD ST SHELL	Gasoline Service Stations
1997	3RD ST SHELL	Gasoline Service Stations
1998	THIRD STREET SHELL	Gasoline Service Stations

E32 **EQUILON ENTERPRISES LLC** **IN AUL** **1001968110**
ESE **301 S WALNUT ST** **IN SCP** **INR000020842**
< 1/8 **BLOOMINGTON, IN 47401** **IN BROWNFIELDS**
0.100 mi. **RCRA NonGen / NLR**
530 ft. **Site 3 of 6 in cluster E** **IN MANIFEST**

Relative: AUL:
Lower

Actual: **746 ft.**

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 1
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 1
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 1
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431678

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 2
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431062

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 2
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431062

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
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IC ID: 2
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VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431062

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 2
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431062

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 2
Terminated Date: Not reported
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Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913

EQUILON ENTERPRISES LLC (Continued) **1001968110**

IC ID: 2
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431062

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 3
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 3
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 3
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 3
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VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 3
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	3
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431061

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	4
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 4
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 4
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 4
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 4
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 4
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431064

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913

EQUILON ENTERPRISES LLC (Continued) **1001968110**

IC ID: 5
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 5
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

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Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
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VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 5
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 5
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

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Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 5
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431063

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	6
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	6
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 6
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 6
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4080102
Program Area: Brownfields
Affected Media: Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded: 01/23/2009
Description: BFF Site Status Letter 5/23/2008
Control Method A: Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A: Entire Property
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A: A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID: 40913
IC ID: 6
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

Name: ROYAL DOG
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Facility Id:	4080102
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil
Date Ic Recorded:	01/23/2009
Description:	BFF Site Status Letter 5/23/2008
Control Method A:	Maintain Vapor Mitigation System; Agricultural or Food Crop; Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	TPH - Total Petroleum Hydrocarbons; VOCs - Volatile Organic Compounds
Comments A:	A vapor intrusion mitigation system must be installed in any existing or newly constructed enclosed structure that will have regular occupancy.
Master AI ID:	40913
IC ID:	6
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66431065

SCP:

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 474013511
Facility Id:	40913
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	70268903
Date:	07/02/2014
Program:	State Cleanup
Document Type:	Site Characterization
Size:	198 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	ROYAL DOG
Address:	301 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 474013511
Facility Id:	40913
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	67711170
Date:	03/18/2013
Program:	State Cleanup
Document Type:	Site Closure
Size:	71 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

IN BROWNFIELD:

Name:	ROYAL DOG (BLOOMINGTON TRANSIT CENTER)
Address:	300 BLK WALNUT ST

EQUILON ENTERPRISES LLC (Continued) **1001968110**

City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	4080102
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Comfort Letter 2/28/2008 Site Status Letter 6/29/2012 Site Status Letter 7/2/2014
ERC Not Required:	Yes
Land Use Restriction:	6 ERCs. No residential, agriculture, water wells. Install vapor mitigation system. (VOCs, TPH in soil and VOCs in groundwater)
Recordation Date or Letter:	1/23/2009 8/11/14 modification

RCRA Listings:

Date Form Received by Agency:	20190708
Handler Name:	Equilon Enterprises Llc
Handler Address:	301 S WALNUT ST
Handler City,State,Zip:	BLOOMINGTON, IN 47401-3511
EPA ID:	INR000020842
Contact Name:	NORA CORTEZ
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	281-874-2224
Contact Fax:	Not reported
Contact Email:	NCCORTEZ@SHELLOPUS.COM
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	12700 NORTHBOROUGH DR
Mailing City,State,Zip:	HOUSTON, TX 77067-2508
Owner Name:	Shell Oil Products Us
Owner Type:	Private
Operator Name:	Shell Oil Products Us
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported

EQUILON ENTERPRISES LLC (Continued) **1001968110**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190712
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SHELL OIL PRODUCTS US	
Legal Status:	Private
Date Became Current:	20030620
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: SHELL OIL PRODUCTS US	
Legal Status:	Private
Date Became Current:	20030620
Date Ended Current:	Not reported
Owner/Operator Address:	12700 NORTHBOROUGH DR MFT240G
Owner/Operator City,State,Zip:	HOUSTON, TX 77067-2508
Owner/Operator Telephone:	271-874-2208

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: EQUILON ENTERPRISES LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 777 WALKER ST
Owner/Operator City,State,Zip: HOUSTON, TX 77252-2648
Owner/Operator Telephone: 713-241-5036
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SHELL OIL PRODUCTS US
Legal Status: Private
Date Became Current: 20190620
Date Ended Current: Not reported
Owner/Operator Address: 12700 NORTHBOROUGH DR MFT240G
Owner/Operator City,State,Zip: HOUSTON, TX 77067-2508
Owner/Operator Telephone: 271-874-2208
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: EQUILON ENTERPRISES LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 777 WALKER ST
Owner/Operator City,State,Zip: HOUSTON, TX 77252-2648
Owner/Operator Telephone: 713-241-5036
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: EQUILON ENTERPRISES LLC
Legal Status: Private
Date Became Current: 20030620
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20000317
Handler Name: EQUILON ENTERPRISES LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030620
Handler Name: EQUILON ENTERPRISES LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190708
Handler Name: EQUILON ENTERPRISES LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11111
NAICS Description: SOYBEAN FARMING

NAICS Code: 447190
NAICS Description: OTHER GASOLINE STATIONS

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20011129
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: RMALO
Evaluation Responsible Sub-Organization: CM2
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

IN MANIFEST:
Name: EQUILON ENTERPRISES LLC
Address: 301 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: INR000020842
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported

EQUILON ENTERPRISES LLC (Continued) **1001968110**

Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: INR000020842
Generator Type: CEG
Generator Status: Active Handler
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: SHELL OIL PRODUCTS US
Handler Mailing City/State/Zip: HOUSTON, TX 77067-2508
Contact Name: NORA CORTEZ
Contact Telephone: 281-874-2224
Contact Type: Environmental Coordinator

Name: EQUILON ENTERPRISES LLC
Address: 301 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: INR000020842
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: EQUILON ENTERPRISES LLC
Address: 301 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: INR000020842
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

E33 **SHELL DEALER BLOOMINGTON S WALNUT ST** **IN LUST** **U004002583**
ESE **301 S WALNUT ST** **IN UST** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.100 mi.
530 ft. **Site 4 of 6 in cluster E**

Relative:
Lower

Actual:
746 ft.

LUST:
Name: SHELL DEALER BLOOMINGTON S WALNUT ST
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 106
Incident Number: 199903538
Description: NFA-Unconditional Closure
Priority: High

UST:
Name: SHELL DEALER BLOOMINGTON S WALNUT ST
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 106
Owner Id: 228
Company Name: Equilon Enterprises
Mailing Address: 11057 Allisonville Rd
Mailing Address 2: Not reported
Mailing City,St,Zip: Fishers, IN 46038

Tank Number: 1
AI ID: 40913
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1972
Tank Capacity: 7896
Substance Desc: Gasoline
Closed Date: 02/24/1999

Name: SHELL DEALER BLOOMINGTON S WALNUT ST
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 40913
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1972
Tank Capacity: 7896
Substance Desc: Gasoline
Closed Date: 02/24/1999

Name: SHELL DEALER BLOOMINGTON S WALNUT ST
Address: 301 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 3
AI ID: 40913
TRACS Tank Number: 3C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1972
Tank Capacity: 7896
Substance Desc: Gasoline

SHELL DEALER BLOOMINGTON S WALNUT ST (Continued) **U004002583**

Closed Date: 02/24/1999

H34 **BANK ONE INDIANA** **IN AUL** **1004483817**
NW **304 W KIRKWOOD AVE** **IN SCP** **N/A**
< 1/8 **BLOOMINGTON, IN 47404** **IN VCP**
0.107 mi. **FINDS**
565 ft. **Site 1 of 4 in cluster H**

Relative:
Higher

Actual:
757 ft.

AUL:

Name:	BANK ONE INDIANA
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Deed Notice
Facility Id:	6970604
Program Area:	Voluntary Remediation Program
Affected Media:	Ground Water; SubSurface Soil; Surface Soil
Date Ic Recorded:	04/03/2001
Description:	Certificate of Completion
Control Method A:	Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	PAH - Polynuclear Aromatic Hydrocarbons; Petroleum (Includes BTEX and MTBE)
Comments A:	Not reported
Master AI ID:	45793
IC ID:	1066
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=66817615

SCP:

Name:	BANK ONE INDIANA
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	45793
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80341770
Date:	08/12/2016
Program:	State Cleanup
Document Type:	Institutional Control
Size:	10 M
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	BANK ONE INDIANA
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	45793
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80341769
Date:	08/12/2016
Program:	State Cleanup

BANK ONE INDIANA (Continued) **1004483817**

Document Type: Site Closure
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: BANK ONE INDIANA
Address: 304 W KIRKWOOD
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45793
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80327874
Date: 07/12/2016
Program: State Cleanup
Document Type: Screening/Assessment
Size: 23 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: BANK ONE INDIANA
Address: 304 W KIRKWOOD
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45793
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80290584
Date: 05/12/2016
Program: State Cleanup
Document Type: Site Closure
Size: 234 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

VCP:

Name:	BANK ONE INDIANA
Address:	304 W. KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN
Status:	Inactive
VRP Id Number:	6970604
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Property shall not be used for residential purposes
Project Manager:	Ridley
Convenant Not To Sue Date:	12/11/2001
Certificate of Completion Date:	02/19/2001
New Coding Number:	VM0GS
App# Date:	06/25/1997
App# Acceptance:	Not reported
VRA executed:	Not reported
RWP Received:	06/17/1999

BANK ONE INDIANA (Continued) **1004483817**

RWP Approved:	06/17/1999
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Petroleum Products
Media:	Groundwater
Project Description:	Not reported
Past Actions:	Not reported
Issues and Impacts:	Not reported
Future Actions:	Not reported
Additional Comments:	Not reported

Name:	BANK ONE INDIANA
Address:	304 W. KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN
Status:	Inactive
VRP Id Number:	6970604
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Property shall not be used for residential purposes
Project Manager:	Ridley
Convenant Not To Sue Date:	12/11/2001
Certificate of Completion Date:	02/19/2001
New Coding Number:	VM0GS
App# Date:	06/25/1997
App# Acceptance:	Not reported
VRA executed:	Not reported
RWP Received:	06/17/1999
RWP Approved:	06/17/1999
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Petroleum Products
Media:	Subsurface Soil
Project Description:	Not reported
Past Actions:	Not reported
Issues and Impacts:	Not reported
Future Actions:	Not reported
Additional Comments:	Not reported

FINDS:
Registry ID: 110012111357

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

H35 **THE FOUNDRY AT 304 LLC** **IN MANIFEST** **S125687985**
NW **304 W KIRKWOOD** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.107 mi.
565 ft. **Site 2 of 4 in cluster H**

Relative:
Higher

Actual:
757 ft.

IN MANIFEST:

Name:	THE FOUNDRY AT 304 LLC
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	2018
EPA ID:	INR000146183
Tons Generated:	820754
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	1
Waste Desc:	DEWATERING EXCAVATION AND PERIMETER DRAIN AROUND FOUNDATION
UOM:	Pounds
TSDF EPAID:	OHD004274031
Management code:	H135
Management Desc:	Discharge to sewer/POTW or NPDES : with prior storage ? with or without treatment
Waste Code:	Not reported
Rejected:	N
Returned:	N

Name:	THE FOUNDRY AT 304 LLC
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	2018
EPA ID:	INR000146183
Tons Generated:	820754
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	1
Waste Desc:	DEWATERING EXCAVATION AND PERIMETER DRAIN AROUND FOUNDATION
UOM:	Pounds
TSDF EPAID:	OHD004274031
Management code:	H135
Management Desc:	Discharge to sewer/POTW or NPDES : with prior storage ? with or without treatment
Waste Code:	D018
Rejected:	N
Returned:	N

Name:	THE FOUNDRY AT 304 LLC
Address:	304 W KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	2018
EPA ID:	INR000146183
Tons Generated:	820754
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	1
Waste Desc:	DEWATERING EXCAVATION AND PERIMETER DRAIN AROUND FOUNDATION
UOM:	Pounds
TSDF EPAID:	OHD004274031
Management code:	H135
Management Desc:	Discharge to sewer/POTW or NPDES : with prior storage ? with or

THE FOUNDRY AT 304 LLC (Continued) **S125687985**

without treatment
Waste Code: D040
Rejected: N
Returned: N

H36 **THE FOUNDRY** **IN SCP** **S123681656**
NW **304 WEST KIRKWOOD** **N/A**
< 1/8 **BLOOMINGTON, IN 47404**
0.107 mi.
565 ft. **Site 3 of 4 in cluster H**

Relative: **Higher**
Actual: **757 ft.**

SCP:
Name: THE FOUNDRY
Address: 304 WEST KIRKWOOD
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: Not reported
Facility Type: Not reported
Site ID: 0000825
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: Active
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

H37 **THE FOUNDRY AT 304 LLC** **RCRA-VSQG** **1024880026**
NW **304 W KIRKWOOD** **INR000146183**
< 1/8 **BLOOMINGTON, IN 47401**
0.107 mi.
565 ft. **Site 4 of 4 in cluster H**

Relative: **Higher**
Actual: **757 ft.**

RCRA Listings:

Date Form Received by Agency:	20200415
Handler Name:	The Foundry At 304 Llc
Handler Address:	304 W KIRKWOOD
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	INR000146183
Contact Name:	BRYAN WHITE
Contact Address:	555 N MORTON ST
Contact City,State,Zip:	BLOOMINGTON, IN 47404
Contact Telephone:	317-710-0774
Contact Fax:	Not reported
Contact Email:	BRYAN.WHITE@ELMORECOMPANIES.COM
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported

THE FOUNDRY AT 304 LLC (Continued) **1024880026**

State District:	Not reported
Mailing Address:	555 N MORTON ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47404
Owner Name:	The Foundry At 304 Llc
Owner Type:	Private
Operator Name:	The Foundry At 304 Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200415
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D040
Waste Description:	TRICHLORETHYLENE

THE FOUNDRY AT 304 LLC (Continued) **1024880026**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: THE FOUNDRY AT 304 LLC	
Legal Status:	Private
Date Became Current:	20160113
Date Ended Current:	Not reported
Owner/Operator Address:	555 N MORTON ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	317-710-0774
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: THE FOUNDRY AT 304 LLC	
Legal Status:	Private
Date Became Current:	20160113
Date Ended Current:	Not reported
Owner/Operator Address:	555 N MORTON ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	317-710-0774
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: THE FOUNDRY AT 304 LLC	
Legal Status:	Private
Date Became Current:	20160113
Date Ended Current:	Not reported
Owner/Operator Address:	555 N MORTON ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	317-710-0774
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: THE FOUNDRY AT 304 LLC	
Legal Status:	Private
Date Became Current:	20160113
Date Ended Current:	Not reported
Owner/Operator Address:	555 N MORTON ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	317-710-0774
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: THE FOUNDRY AT 304 LLC	
Legal Status:	Private
Date Became Current:	20160113
Date Ended Current:	Not reported
Owner/Operator Address:	555 N MORTON ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	317-710-0774

THE FOUNDRY AT 304 LLC (Continued) **1024880026**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THE FOUNDRY AT 304 LLC
Legal Status: Private
Date Became Current: 20160113
Date Ended Current: Not reported
Owner/Operator Address: 555 N MORTON ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47404
Owner/Operator Telephone: 317-710-0774
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20181012
Handler Name: THE FOUNDRY AT 304 LLC
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190612
Handler Name: THE FOUNDRY AT 304 LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20200415
Handler Name: THE FOUNDRY AT 304 LLC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

THE FOUNDRY AT 304 LLC (Continued) **1024880026**

List of NAICS Codes and Descriptions:
NAICS Code: 236117
NAICS Description: NEW HOUSING OPERATIVE BUILDERS

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20200313
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KWHIT
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

G38 **SERVICE CLEANERS** **IN DRYCLEANERS** **S128158500**
North **113 N COLLEGE AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.111 mi.
586 ft. **Site 2 of 3 in cluster G**

Relative: **Higher**
Actual: **769 ft.**

DRYCLEANERS 2:

Name:	SERVICE CLEANERS
Last Facility Name:	Service Cleaners
Address:	113 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 N College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1931
Reference Name:	Caron's City Directory
Reference Notes:	rear
Reference ID:	2605
ADDR ID:	954
Latitude:	39.1667
Longitude:	-86.5349

Name:	SERVICE CLEANERS
Last Facility Name:	Service Cleaners
Address:	113 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 N College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron's City Directory
Reference Notes:	rear
Reference ID:	2607
ADDR ID:	954
Latitude:	39.1667
Longitude:	-86.5349

I39 **SKIRVIN W. H.** **IN DRYCLEANERS** **S128154857**
SE **317 S WALNUT ST** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.111 mi.
586 ft. **Site 1 of 4 in cluster I**

Relative: **Lower**
Actual: **744 ft.**

DRYCLEANERS 2:

Name:	SKIRVIN W. H.
Last Facility Name:	Skirvin W. H.
Address:	317 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	317 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded

SKIRVIN W. H. (Continued) **S128154857**

Reference Year:	1929
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	3053
ADDR ID:	5693
Latitude:	39.1642
Longitude:	-86.5335

J40 **WEAVER CLEANING & TAILORING** **IN DRYCLEANERS** **S128153878**
NE **106 E KIRKWOOD AVE** **N/A**
< 1/8 **BLOOMINGTON, IN**
0.119 mi.
629 ft. **Site 1 of 10 in cluster J**

Relative:
Higher

Actual:
769 ft.

DRYCLEANERS 2:

Name:	WEAVER CLEANING & TAILORING
Last Facility Name:	Weaver Cleaning & Tailoring
Address:	106 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	106 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1922
Reference Name:	Caron's City Directory
Reference Notes:	Stand alone ad (1922-23)
Reference ID:	2531
ADDR ID:	464
Latitude:	39.1665
Longitude:	-86.5334

E41 **FLEENER BUILDING** **IN SCP** **1000463900**
ESE **112 E 3RD ST** **IN BROWNFIELDS** **IND016210361**
< 1/8 **BLOOMINGTON, IN 47401** **IN SPILLS**
0.125 mi. **RCRA NonGen / NLR**
658 ft. **Site 5 of 6 in cluster E** **FINDS**
ECHO
Relative: **IN DRYCLEANERS**
Lower **IN IND WASTE**
IN MANIFEST

Actual:
744 ft.

SCP:

Name:	FLEENER BUILDING
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	40204
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80336428
Date:	08/08/2016
Program:	State Cleanup
Document Type:	Screening/Assessment
Size:	2 M

FLEENER BUILDING (Continued) **1000463900**

Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80299688
Date: 04/20/2016
Program: State Cleanup
Document Type: Screening/Assessment
Size: 206 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80270848
Date: 04/13/2016
Program: State Cleanup
Document Type: Screening/Assessment
Size: 168 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 69011346
Date: 10/11/2013
Program: State Cleanup
Document Type: Site Characterization
Size: 36 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING

FLEENER BUILDING (Continued) **1000463900**

Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 68820114
Date: 09/04/2013
Program: State Cleanup
Document Type: Site Characterization
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 67771418
Date: 03/22/2013
Program: State Cleanup
Document Type: Site Characterization
Size: 1 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 65674428
Date: 04/18/2012
Program: State Cleanup
Document Type: Site Characterization
Size: 29 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported

FLEENER BUILDING (Continued) **1000463900**

Doc Number: 65048289
Date: 02/01/2012
Program: State Cleanup
Document Type: Site Characterization
Size: 110 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 64359597
Date: 12/05/2011
Program: State Cleanup
Document Type: Technical Review
Size: 37 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 63960792
Date: 10/28/2011
Program: State Cleanup
Document Type: Site Characterization
Size: 22 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 40204
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 63358571
Date: 08/29/2011
Program: State Cleanup
Document Type: Site Characterization
Size: 37 K
Status: Not reported

FLEENER BUILDING (Continued) **1000463900**

Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FLEENER BUILDING PROPERTY
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: Not reported
Facility Type: Not reported
Site ID: 200902278
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: Active
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

IN BROWNFIELD:
Name: FLEENER BUILDING
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 4110803
Project Manager: Not reported
AI Id: 40204
Financial Assistance: Not reported
Other Assistance: Comfort Letter request 8/16/2011
ERC Not Required: NR
Land Use Restriction: Not reported
Recordation Date or Letter: Not reported

SPILL:
Name: Not reported
Address: 112 E. 3RD ST.
City,State,Zip: BLOOMINGTON, IN 47404
Facility ID: 200902278
Incident Date: 02/27/2009
Report Date: 02/27/2009
Material: PCE, TCE, VC
Spill Source: Commercial
Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: Not reported
Spilled Units: Not reported
Contained: Not reported
Water Affected: Not reported
Spill Type: Other
Area Affected: Not reported
Fish Killed: Not reported
Water Supply Affected: Not reported
Public Intake: N
Incident Status: Not reported

FLEENER BUILDING (Continued) **1000463900**

RCRA Listings:

Date Form Received by Agency:	20040112
Handler Name:	Modern Cleaners
Handler Address:	112 E 3RD ST
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND016210361
Contact Name:	REED RECORDS
Contact Address:	112 E 3RD ST
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-332-2583
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	112 E 3RD ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	Eastland Cleaners Inc
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

FLEENER BUILDING (Continued) **1000463900**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: NAME NOT REPORTED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: EASTLAND CLEANERS INC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	112 E 3RD ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47401
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

FLEENER BUILDING (Continued) **1000463900**

Owner/Operator Indicator: Owner
Owner/Operator Name: EASTLAND CLEANERS INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 112 E 3RD ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47401
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19860909
Handler Name: MODERN CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040112
Handler Name: MODERN CLEANERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Has the Facility Received Notices of Violations:
Found Violation: No

FLEENER BUILDING (Continued) **1000463900**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20020222
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KWHIT
Evaluation Responsible Sub-Organization:	CM2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110003075127

FLEENER BUILDING (Continued) **1000463900**

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110058751952

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000463900
Registry ID:	110003075127
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003075127
Name:	MODERN CLEANERS
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401

DRYCLEANERS 2:

Name:	MODERN CLEANERS
Last Facility Name:	Modern Cleaners
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40204
Reference Address:	112 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	2001
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	77793
ADDR ID:	857
Latitude:	39.1643
Longitude:	-86.5328

Name:	MODERN CLEANERS
Last Facility Name:	Modern Cleaners
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN

FLEENER BUILDING (Continued) **1000463900**

Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40204
Reference Address:	112 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1982
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Downtown
Reference ID:	97398
ADDR ID:	857
Latitude:	39.1643
Longitude:	-86.5328

Name:	MODERN CLNRS & SHIRT LAUNDERERS
Last Facility Name:	Modern Cleaners
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40204
Reference Address:	112 E 3
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	See Ad Classification
Reference ID:	97432
ADDR ID:	857
Latitude:	39.1643
Longitude:	-86.5328

Name:	MODERN CLNRS & SHIRT LAUNDERERS
Last Facility Name:	Modern Cleaners
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40204
Reference Address:	112 E 3
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97455
ADDR ID:	857
Latitude:	39.1643
Longitude:	-86.5328

Name:	MODERN CLEANERS AND SHIRT LAUNDERERS
Last Facility Name:	Modern Cleaners
Address:	112 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40204

FLEENER BUILDING (Continued) **1000463900**

Reference Address: 112 E 3
Reference City: Bloomington
Cleaner Type: Cleaners
Reference Year: 1973
Reference Name: Indiana Bell Telephone Directory for Bloomington
Reference Notes: Not reported
Reference ID: 97750
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: MODERN CLEANERS AND SHIRT LAUNDERERS
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3
Reference City: Bloomington
Cleaner Type: Laundries
Reference Year: 1973
Reference Name: Indiana Bell Telephone Directory for Bloomington
Reference Notes: Not reported
Reference ID: 97811
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: MODERN CLEANERS
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2003
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 2582
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: MODERN CLEANERS
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded

FLEENER BUILDING (Continued) **1000463900**

Reference Year: 2004
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 2583
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: EASTLAND CLEANERS
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2001
Reference Name: Polk City Directory
Reference Notes: Reed Records (2001)
Reference ID: 2584
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: MODERN CLEANERS & SHIRT LAUNDRY
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1963
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2585
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Name: MODERN CLEANERS & SHIRT LAUNDRY
Last Facility Name: Modern Cleaners
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 40204
Reference Address: 112 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1966
Reference Name: Polk City Directory
Reference Notes: Not reported

FLEENER BUILDING (Continued) **1000463900**

Reference ID: 2586
ADDR ID: 857
Latitude: 39.1643
Longitude: -86.5328

Click this hyperlink while viewing on your computer to access
31 additional IN DRYCLN2: record(s) in the EDR Site Report.

IN Dryclean:
Facility ID: IN0503482
Alias Name: Not reported
Facility Telephone: 812/332-2583
Contact Name: PHIL RECORDS
Contact Phone: Not reported
Address: 112 E 3RD ST
City: BLOOMINGTON
State: IN
Zip Code: 47401
Zip4: 3501
Comment: OPERATES ONLY 1 DRC; 3/2/03 LETTER THAT LAST DAY OF BUSINESS WILL BE 4/15/03
Violation: 324(D)(2)(3); 322(J); 323(A)(1); 324d(1)(2)(3)(4)(5)
Perc Gallons: 1800
Estimated Perc Gallons: Not reported
RMEN Closed: No
Other: No
Int Received Date: 08/01/96
Prev Received Date: 08/01/96
Cntrl Received Date: 08/01/96
Class/Mach: 1-LNA/DRC
Five Star: NO
Cmpl Action: VL
Inspection Date: 4/21/97; 2/22/99
Inspector: Not reported
Mailed Date: Not reported
Status: CL?
Cause: Not reported
Date Response: Not reported
PO Notes: Not reported

IND WASTE:
Name: MODERN CLEANERS
Address: 112 E 3RD ST
City,State,Zip: IN 47401
Object ID: 222058
Regulatory: IND016210361
Program: HW
Reference: Access Point
Date Data Collected: Not reported
Site Type: Not reported

IN MANIFEST:
Name: MODERN CLEANERS
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210361

FLEENER BUILDING (Continued) **1000463900**

Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND016210361
Generator Type: Not reported
Generator Status: 7
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 112 E 3RD ST
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47401
Contact Name: REED RECORDS
Contact Telephone: 812-332-2583
Contact Type: Environmental Coordinator

Name: MODERN CLEANERS
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210361
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: MODERN CLEANERS
Address: 112 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401
Year: Not reported
EPA ID: IND016210361
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported

FLEENER BUILDING (Continued) **1000463900**

Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

E42 **EASTLAND CLEANERS INC** **EDR Hist Cleaner** **1018491075**
ESE **112 E 3RD ST** **N/A**
< 1/8 **BLOOMINGTON, IN 47401**
0.125 mi.
658 ft. **Site 6 of 6 in cluster E**

Relative: EDR Hist Cleaner
Lower

Actual:
744 ft.

Year:	Name:	Type:
1969	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1970	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1971	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1972	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1973	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1974	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1975	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1976	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1977	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1978	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1979	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1980	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1982	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1983	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1985	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1986	MODERN CLEANERS	Drycleaning Plants, Except Rugs
1987	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1988	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1989	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1990	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1991	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1992	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1993	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1994	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1995	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1996	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1997	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1998	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
1999	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
2000	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
2001	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs
2002	EASTLAND CLEANERS INC	Drycleaning Plants, Except Rugs

J43 **COOMBS LOGAN L** **IN DRYCLEANERS** **S128154005**
NE **106 N WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.130 mi.
685 ft. **Site 2 of 10 in cluster J**

Relative: DRYCLEANERS 2:
Higher

Actual: Name: HALL'S CLEANING & PRESSING
775 ft. Last Facility Name: Hall's Cleaning & Pressing
Address: 106 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 106 N Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1934
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2534
ADDR ID: 478
Latitude: 39.1668
Longitude: -86.5332

Name: COOMBS LOGAN L
Last Facility Name: Hall's Cleaning & Pressing
Address: 106 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 106 N Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1922
Reference Name: Caron's City Directory
Reference Notes: Stand alone ad (1922-23)
Reference ID: 2536
ADDR ID: 478
Latitude: 39.1668
Longitude: -86.5332

G44 **HAZEL CLEANERS** **IN DRYCLEANERS** **S128153263**
North **215 W 6TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.131 mi.
692 ft. **Site 3 of 3 in cluster G**

Relative: DRYCLEANERS 2:
Higher

Actual: Name: HAZEL CLEANERS
761 ft. Last Facility Name: Hazel Cleaners
Address: 215 W 6TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 215 W 6th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded

HAZEL CLEANERS (Continued) **S128153263**

Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2841
ADDR ID:	4011
Latitude:	39.1672
Longitude:	-86.5355
Name:	HAZEL CLEANERS
Last Facility Name:	Hazel Cleaners
Address:	215 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	215 W 6th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2842
ADDR ID:	4011
Latitude:	39.1672
Longitude:	-86.5355
Name:	HAZEL PAUL
Last Facility Name:	Hazel Cleaners
Address:	215 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	215 W 6th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1945
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2843
ADDR ID:	4011
Latitude:	39.1672
Longitude:	-86.5355

J45 **SKIRVIN W. H.** **IN DRYCLEANERS** **S128154874**
NE **109 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.131 mi.
694 ft. **Site 3 of 10 in cluster J**

Relative: DRYCLEANERS 2:
Higher

Actual:
771 ft.

Name:	SKIRVIN W. H.
Last Facility Name:	Skirvin W. H.
Address:	109 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported

SKIRVIN W. H. (Continued) **S128154874**

Reference Address:	109 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1916
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2555
ADDR ID:	570
Latitude:	39.1666
Longitude:	-86.5334
Name:	SKIRVIN W. H.
Last Facility Name:	Skirvin W. H.
Address:	109 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	109 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1918
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2557
ADDR ID:	570
Latitude:	39.1666
Longitude:	-86.5334

J46 **TINY TOT DIAPER SERV** **IN DRYCLEANERS** **S128150668**
ENE **108.5 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.134 mi.
707 ft. **Site 4 of 10 in cluster J**

Relative: **Higher**
Actual: **767 ft.**

DRYCLEANERS 2:

Name:	TINY TOT DIAPER SERV
Last Facility Name:	Tiny Tot Diaper Serv
Address:	108.5 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/14/2021
Master AI ID:	Not reported
Reference Address:	108.5 E Kirkwood Av
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97813
ADDR ID:	17500
Latitude:	39.1665
Longitude:	-86.5329

J47 **RYORS DRY CLEANING** **IN DRYCLEANERS** **S128156606**
NE **111 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.134 mi.
710 ft. **Site 5 of 10 in cluster J**

Relative:
Higher

Actual:
770 ft.

DRYCLEANERS 2:

Name:	RYORS DRY CLEANING
Last Facility Name:	Master Cleaners
Address:	111 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	111 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1929
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2568
ADDR ID:	751
Latitude:	39.1666
Longitude:	-86.5334

Name:	RYORS DRY CLEANING
Last Facility Name:	Master Cleaners
Address:	111 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	111 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1931
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2570
ADDR ID:	751
Latitude:	39.1666
Longitude:	-86.5334

Name:	MASTER CLEANERS
Last Facility Name:	Master Cleaners
Address:	111 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	111 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1945
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2572
ADDR ID:	751
Latitude:	39.1666

RYORS DRY CLEANING (Continued) **S128156606**

Longitude: -86.5334

K48 **MC CO INC** **RCRA NonGen / NLR** **1001404696**
North **219 W SIXTH ST** **FINDS** **IN0000085514**
1/8-1/4 **BLOOMINGTON, IN 47404** **ECHO**
0.135 mi. **IN MANIFEST**
714 ft. **Site 1 of 3 in cluster K**

Relative: **Higher**
Actual: **760 ft.**

RCRA Listings:

Date Form Received by Agency:	19931228
Handler Name:	Mc Co Inc
Handler Address:	219 W SIXTH ST
Handler City,State,Zip:	BLOOMINGTON, IN 47404
EPA ID:	IN0000085514
Contact Name:	J BRADLEY MCNEELY
Contact Address:	219 W SIXTH ST
Contact City,State,Zip:	BLOOMINGTON, IN 47404
Contact Telephone:	812-332-9118
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	219 W SIXTH ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47404
Owner Name:	Mcneely John
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No

MC CO INC (Continued) **1001404696**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MCNEELY JOHN	
Legal Status:	Private
Date Became Current:	Not reported

MC CO INC (Continued) **1001404696**

Date Ended Current:	Not reported
Owner/Operator Address:	217 W SIXTH ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47404
Owner/Operator Telephone:	812-339-8294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19931228
Handler Name: MC CO INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110003065619

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

MC CO INC (Continued) **1001404696**

ECHO:
Envid: 1001404696
Registry ID: 110003065619
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003065619
Name: MC CO INC
Address: 219 W SIXTH ST
City,State,Zip: BLOOMINGTON, IN 47404

IN MANIFEST:
Name: MC CO INC
Address: 219 W SIXTH ST
City,State,Zip: BLOOMINGTON, IN 47404
Year: Not reported
EPA ID: IN0000085514
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IN0000085514
Generator Type: Not reported
Generator Status: 7
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 219 W SIXTH ST
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47404
Contact Name: J BRADLEY MCNEELY
Contact Telephone: 812-332-9118
Contact Type: Environmental Coordinator

Name: MC CO INC
Address: 219 W SIXTH ST
City,State,Zip: BLOOMINGTON, IN 47404
Year: Not reported
EPA ID: IN0000085514
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported

MC CO INC (Continued) **1001404696**

Rejected:	Not reported
Returned:	Not reported
Name:	MC CO INC
Address:	219 W SIXTH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	IN0000085514
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

K49 **HHI YELLOW CAB LLC** **IN LUST** **1000843692**
North **219 W 6TH ST** **IN UST** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.135 mi.
714 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
760 ft.

LUST:

Name:	HHI YELLOW CAB LLC
Address:	219 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	18574
Incident Number:	201706502
Description:	NFA-Unconditional Closure
Priority:	Medium
Name:	HHI YELLOW CAB LLC
Address:	219 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	18574
Incident Number:	199612503
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	HHI YELLOW CAB LLC
Address:	219 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	18574
Owner Id:	52721
Company Name:	HHI Yellow Cab LLC
Mailing Address:	215 217 West Sixth Street
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47404
Tank Number:	1
AI ID:	44435

HHI YELLOW CAB LLC (Continued) **1000843692**

TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1983
Tank Capacity: 10000
Substance Desc: Gasoline
Closed Date: 02/21/1997

Name: HHI YELLOW CAB LLC
Address: 219 W 6TH ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 44435
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: 02/01/1997
Tank Capacity: 10000
Substance Desc: Gasoline
Closed Date: 01/31/2018

I50 **CROSSTOWN CLEANERS** **IN ASBESTOS** **S125217542**
ESE **116 E 3RD ST** **IN DRYCLEANERS** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.136 mi.
720 ft. **Site 2 of 4 in cluster I**

Relative: **Lower**
Actual: **743 ft.**

ASBESTOS:
Notification Number: 31374
Name: Not reported
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Removal Name: Building Associates, Inc.
Demolition Name: Stanger Excavating Inc.
Notice Type: Original
Owner: Song Kim
Demoltion Renovation Postmark: Demolition
Fax Date: 26-MAR-14
Start Date: 14-APR-14
End Date: 18-APR-14
Year: Not reported
Inspection Date: 27-MAR-14, 03-APR-14
Inspector: JLC, JLC
Warning Date: Not reported

DRYCLEANERS 2:
Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2012
Reference Name: Polk City Directory

CROSSTOWN CLEANERS (Continued) **S125217542**

Reference Notes: Not reported
Reference ID: 2624
ADDR ID: 1107
Latitude: 39.1643
Longitude: -86.5326

Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2015
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2625
ADDR ID: 1107
Latitude: 39.1643
Longitude: -86.5326

Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Laundries
Reference Year: 2012
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 93767
ADDR ID: 1107
Latitude: 39.1643
Longitude: -86.5326

Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2011
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 68497
ADDR ID: 1107

CROSSTOWN CLEANERS (Continued) **S125217542**

Latitude: 39.1643
Longitude: -86.5326

Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 2013
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 70934
ADDR ID: 1107
Latitude: 39.1643
Longitude: -86.5326

Name: CROSSTOWN CLEANERS
Last Facility Name: Crosstown Cleaners
Address: 116 E 3RD ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 116 E 3rd St
Reference City: Bloomington
Cleaner Type: Laundries
Reference Year: 2015
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 82625
ADDR ID: 1107
Latitude: 39.1643
Longitude: -86.5326

I51 **NORDBERGS PROPERTY** **IN LUST** **U003209620**
SE **329 S WALNUT** **IN AUL** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.137 mi.
721 ft. **Site 3 of 4 in cluster I**

Relative:
Lower

Actual:
742 ft.

LUST:
Name: NORDBERGS PROPERTY
Address: 329 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 20252
Incident Number: 199109525
Description: NFA-Conditional Closure
Priority: Medium

AUL:
Name: NORBERGS PROPERTY
Address: 329 S WALNUT

NORDBERGS PROPERTY (Continued) **U003209620**

City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	199109525
Program Area:	LUST
Affected Media:	Ground Water; Subsurface Soil; Surface Soil
Date Ic Recorded:	08/08/2005
Description:	LUST 199109525
Control Method A:	Ground Water Use Restriction; Land Activity Monitoring; Prohibit Monitoring Interference
Coverage A:	Portion of Property
Chemicals Of Concern A:	Petroleum
Comments A:	Not reported
Master AI ID:	41995
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=23131648

Name:	NORDBERGS PROPERTY
Address:	329 S WALNUT
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	199109525
Program Area:	LUST
Affected Media:	Ground Water; Subsurface Soil; Surface Soil
Date Ic Recorded:	08/08/2005
Description:	LUST 199109525
Control Method A:	Ground Water Use Restriction; Land Activity Monitoring; Prohibit Monitoring Interference
Coverage A:	Portion of Property
Chemicals Of Concern A:	Petroleum
Comments A:	Not reported
Master AI ID:	41995
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=23131648

L52 **BIG O PROPERTIES** **IN BROWNFIELDS** **S109095206**
SSE **340 S WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.144 mi.
758 ft. **Site 1 of 4 in cluster L**

Relative: **Lower**

Actual: **742 ft.**

IN BROWNFIELD:

Name:	BIG O PROPERTIES
Address:	340 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	4080405
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Remediation Grant applicant
Other Assistance:	Not reported
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

J53 **MANITORIUM THE** **IN DRYCLEANERS** **S128148083**
NE **119 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.147 mi.
777 ft. **Site 6 of 10 in cluster J**

Relative: DRYCLEANERS 2:
Higher

Actual: Name: MANITORIUM THE
768 ft. Last Facility Name: Manitorium The
Address: 119 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 E Kirkwood Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1916
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2626
ADDR ID: 1227
Latitude: 39.1666
Longitude: -86.5333

Name: MANITORIUM THE
Last Facility Name: Manitorium The
Address: 119 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 119 E Kirkwood Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1918
Reference Name: Caron's City Directory
Reference Notes: Not reported
Reference ID: 2628
ADDR ID: 1227
Latitude: 39.1666
Longitude: -86.5333

K54 **BELL & SON** **IN DRYCLEANERS** **S128152840**
North **204 W 6TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.148 mi.
782 ft. **Site 3 of 3 in cluster K**

Relative: DRYCLEANERS 2:
Higher

Actual: Name: BELL & SON
762 ft. Last Facility Name: Bell & Son
Address: 204 W 6TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 204 W 6th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded

BELL & SON (Continued) **S128152840**

Reference Year:	1931
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2820
ADDR ID:	3589
Latitude:	39.1676
Longitude:	-86.5349
Name:	BELL & SON
Last Facility Name:	Bell & Son
Address:	204 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	204 W 6th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2822
ADDR ID:	3589
Latitude:	39.1676
Longitude:	-86.5349

I55 SE 1/8-1/4 0.148 mi. 782 ft. **LEONARD'S LINEN SERVICE INC** **IN DRYCLEANERS** **S128154838**
316 S WASHINGTON ST **N/A**
BLOOMINGTON, IN

Site 4 of 4 in cluster I

Relative: Lower
Actual: 740 ft.

DRYCLEANERS 2:

Name:	LEONARD'S LINEN SERVICE INC
Last Facility Name:	Mechanics Laundry Supply
Address:	316 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	316 S Wash
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97807
ADDR ID:	5675
Latitude:	39.1693
Longitude:	-86.5321
Name:	MECHANICS LAUNDRY SUPPLY
Last Facility Name:	Mechanics Laundry Supply
Address:	316 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	Not reported

LEONARD'S LINEN SERVICE INC (Continued) **S128154838**

Reference Address:	316 S Washington St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1998
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3040
ADDR ID:	5675
Latitude:	39.1693
Longitude:	-86.5321

L56 **SUPERIOR CLEANERS & TAILORS** **IN DRYCLEANERS** **S128155180**
SSE **342 S WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.149 mi.
788 ft. **Site 2 of 4 in cluster L**

Relative: DRYCLEANERS 2:
Lower

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1982
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97400
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Actual:
742 ft.

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97434
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN

SUPERIOR CLEANERS & TAILORS (Continued) **S128155180**

Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1988
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	74921
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1990
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	92843
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1989
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	94362
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported

SUPERIOR CLEANERS & TAILORS (Continued) **S128155180**

Reference Address: 342 S Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1955
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3077
ADDR ID: 6029
Latitude: 39.1638
Longitude: -86.5337

Name: SUPERIOR CLEANERS
Last Facility Name: Superior Cleaners
Address: 342 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 342 S Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1958
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3078
ADDR ID: 6029
Latitude: 39.1638
Longitude: -86.5337

Name: SUPERIOR CLEANERS
Last Facility Name: Superior Cleaners
Address: 342 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 342 S Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1960
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3079
ADDR ID: 6029
Latitude: 39.1638
Longitude: -86.5337

Name: SUPERIOR CLEANERS
Last Facility Name: Superior Cleaners
Address: 342 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 342 S Walnut St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded

SUPERIOR CLEANERS & TAILORS (Continued) **S128155180**

Reference Year:	1963
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3080
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337
Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1966
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3081
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337
Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	342 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	342 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1969
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3082
ADDR ID:	6029
Latitude:	39.1638
Longitude:	-86.5337

Click this hyperlink while viewing on your computer to access
11 additional IN DRYCLN2: record(s) in the EDR Site Report.

M57
ESE
1/8-1/4
0.151 mi.
795 ft.

BLOOMINGTON LAUNDERETTE
200 E 3RD ST
BLOOMINGTON, IN

Site 1 of 2 in cluster M

IN DRYCLEANERS **S128152661**
N/A

Relative:
Lower

Actual:
744 ft.

DRYCLEANERS 2:

Name:	BLOOMINGTON LAUNDERETTE
Last Facility Name:	Bloomington Launderette
Address:	200 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN

BLOOMINGTON LAUNDERETTE (Continued) **S128152661**

Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	200 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2802
ADDR ID:	3407
Latitude:	39.1645
Longitude:	-86.5323

J58 **SKIRVIN W. H.** **IN DRYCLEANERS** **S128149546**
NE **125 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.151 mi.
797 ft. **Site 7 of 10 in cluster J**

Relative: **Higher**
Actual: **768 ft.**

DRYCLEANERS 2:

Name:	SKIRVIN W. H.
Last Facility Name:	Skirvin W. H.
Address:	125 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	125 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1920
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2667
ADDR ID:	1600
Latitude:	39.1666
Longitude:	-86.5332

J59 **CVS PHARMACY 10676** **RCRA-VSQG** **1018156385**
NE **121 E KIRKWOOD AVE** **FINDS** **INR000141465**
1/8-1/4 **BLOOMINGTON, IN 47403** **ECHO**
0.152 mi.
804 ft. **Site 8 of 10 in cluster J**

Relative: **Higher**
Actual: **768 ft.**

RCRA Listings:

Date Form Received by Agency:	20210320
Handler Name:	Cvs Pharmacy 10676
Handler Address:	121 E KIRKWOOD AVE
Handler City,State,Zip:	BLOOMINGTON, IN 47403
EPA ID:	INR000141465
Contact Name:	NICOLE WILKINSON
Contact Address:	CVS DR MC2340
Contact City,State,Zip:	WOONSOCKET, RI 02895
Contact Telephone:	401-770-7132
Contact Fax:	Not reported

CVS PHARMACY 10676 (Continued) **1018156385**

Contact Email:	NICOLE.WILKINSON@CVSHEALTH.COM
Contact Title:	DIRECTOR, CORPORATE ENVIRONMENTAL
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	CVS DR MC2340
Mailing City,State,Zip:	WOONSOCKET, RI 02895
Owner Name:	Tmc Bloomington I Llc
Owner Type:	Private
Operator Name:	Hook Superx Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	H

CVS PHARMACY 10676 (Continued) **1018156385**

Biennial: List of Years
Year: 2017

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS,

CVS PHARMACY 10676 (Continued) **1018156385**

WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P012
Waste Description: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: P188
Waste Description: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U010
Waste Description: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

Waste Code: U031
Waste Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Waste Code: U034
Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U059
Waste Description: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U122

CVS PHARMACY 10676 (Continued) **1018156385**

Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U151
Waste Description: MERCURY

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U200
Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U204
Waste Description: SELENIOUS ACID (OR) SELENIUM DIOXIDE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code: U206
Waste Description: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U279
Waste Description: U279

Waste Code: U411
Waste Description: U411

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC
Legal Status: Private
Date Became Current: 20141229

CVS PHARMACY 10676 (Continued) **1018156385**

Date Ended Current:	Not reported
Owner/Operator Address:	501 PENNSYLVANIA PKWY NO 160
Owner/Operator City,State,Zip:	INDIANAPOLIS, IN 46280
Owner/Operator Telephone:	317-574-7332
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: HOOK SUPERX LLC	
Legal Status:	Private
Date Became Current:	20150830
Date Ended Current:	Not reported
Owner/Operator Address:	1 CVS DR
Owner/Operator City,State,Zip:	WOONSOCKET, RI 02895
Owner/Operator Telephone:	401-765-1500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC	
Legal Status:	Private
Date Became Current:	20141229
Date Ended Current:	Not reported
Owner/Operator Address:	501 PENNSYLVANIA PKWY NO 160
Owner/Operator City,State,Zip:	INDIANAPOLIS, IN 46280
Owner/Operator Telephone:	317-574-7332
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: HOOK SUPERX LLC	
Legal Status:	Private
Date Became Current:	20150830
Date Ended Current:	Not reported
Owner/Operator Address:	1 CVS DR
Owner/Operator City,State,Zip:	WOONSOCKET, RI 02895
Owner/Operator Telephone:	401-770-6493
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC	
Legal Status:	Private
Date Became Current:	20141229
Date Ended Current:	Not reported
Owner/Operator Address:	501 PENNSYLVANIA PKWY STE 160
Owner/Operator City,State,Zip:	INDIANAPOLIS, IN 46280
Owner/Operator Telephone:	317-574-7332
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

CVS PHARMACY 10676 (Continued) **1018156385**

Owner/Operator Name: HOOK SUPERX LLC
Legal Status: Private
Date Became Current: 20150830
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DR
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-770-6493
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC
Legal Status: Private
Date Became Current: 20141229
Date Ended Current: Not reported
Owner/Operator Address: 501 PENNSYLVANIA PKWY NO 160
Owner/Operator City,State,Zip: INDIANAPOLIS, IN 46280
Owner/Operator Telephone: 317-574-7332
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC
Legal Status: Private
Date Became Current: 20141229
Date Ended Current: Not reported
Owner/Operator Address: 501 PENNSYLVANIA PKWY STE 160
Owner/Operator City,State,Zip: INDIANAPOLIS, IN 46280
Owner/Operator Telephone: 317-574-7332
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HOOK SUPERX LLC
Legal Status: Private
Date Became Current: 20150830
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DR
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-770-6493
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HOOK SUPERX LLC
Legal Status: Private
Date Became Current: 20150830
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DR
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-765-1500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

CVS PHARMACY 10676 (Continued) **1018156385**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HOOK SUPERX LLC
Legal Status: Private
Date Became Current: 20150830
Date Ended Current: Not reported
Owner/Operator Address: 1 CVS DR
Owner/Operator City,State,Zip: WOONSOCKET, RI 02895
Owner/Operator Telephone: 401-765-1500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TMC BLOOMINGTON I LLC
Legal Status: Private
Date Became Current: 20141229
Date Ended Current: Not reported
Owner/Operator Address: 501 PENNSYLVANIA PKWY STE 160
Owner/Operator City,State,Zip: INDIANAPOLIS, IN 46280
Owner/Operator Telephone: 317-574-7332
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180301
Handler Name: CVS PHARMACY 10676
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20150928
Handler Name: CVS PHARMACY 10676
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20161222
Handler Name: CVS PHARMACY 10676
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported

CVS PHARMACY 10676 (Continued) **1018156385**

Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20170216
Handler Name: CVS PHARMACY 10676	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20190410
Handler Name: CVS PHARMACY 10676	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20210320
Handler Name: CVS PHARMACY 10676	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	446110
NAICS Description:	PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CVS PHARMACY 10676 (Continued) **1018156385**

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110066947031

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018156385
Registry ID:	110066947031
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110066947031
Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403

J60 **OLD NATIONAL BANK BUSINESS CENTER** **IN BROWNFIELDS** **S118360022**
NE **121 E KIRKWOOD** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47403**
0.152 mi.
804 ft. **Site 9 of 10 in cluster J**

Relative:
Higher

Actual:
768 ft.

IN BROWNFIELD:

Name:	OLD NATIONAL BANK BUSINESS CENTER
Address:	121 E KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	4141102
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Site Status Letter 2/16/2015
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

J61 **CVS PHARMACY 10676** **IN MANIFEST** **S121172495**
NE **121 E KIRKWOOD AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47403**
0.152 mi.
804 ft. **Site 10 of 10 in cluster J**

Relative:
Higher

Actual:
768 ft.

IN MANIFEST:

Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2018
EPA ID:	INR000141465
Tons Generated:	24
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	1
Waste Desc:	Aerosols, Flammable
UOM:	Pounds
TSDF EPAID:	INR000110197
Management code:	H141
Management Desc:	The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery, fuel blending , or disposal at that receiving site.
Waste Code:	Not reported
Rejected:	N
Returned:	N

Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2018
EPA ID:	INR000141465
Tons Generated:	1
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	7
Waste Desc:	Toxic Solids
UOM:	Pounds
TSDF EPAID:	INR000110197
Management code:	H141
Management Desc:	The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery, fuel blending , or disposal at that receiving site.
Waste Code:	D010
Rejected:	N
Returned:	N

Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2018
EPA ID:	INR000141465
Tons Generated:	1
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	7
Waste Desc:	Toxic Solids
UOM:	Pounds
TSDF EPAID:	INR000110197

CVS PHARMACY 10676 (Continued) **S121172495**

Management code:	H141
Management Desc:	The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery, fuel blending , or disposal at that receiving site.
Waste Code:	D007
Rejected:	N
Returned:	N
Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2018
EPA ID:	INR000141465
Tons Generated:	15
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	6
Waste Desc:	RX Toxic Solids
UOM:	Pounds
TSDF EPAID:	INR000110197
Management code:	H141
Management Desc:	The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery, fuel blending , or disposal at that receiving site.
Waste Code:	D010
Rejected:	N
Returned:	N
Name:	CVS PHARMACY 10676
Address:	121 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2018
EPA ID:	INR000141465
Tons Generated:	15
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	6
Waste Desc:	RX Toxic Solids
UOM:	Pounds
TSDF EPAID:	INR000110197
Management code:	H141
Management Desc:	The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery, fuel blending , or disposal at that receiving site.
Waste Code:	D007
Rejected:	N
Returned:	N

Click this hyperlink while viewing on your computer to access
46 additional IN MANIFEST: record(s) in the EDR Site Report.

N62 **MCKINNEY HOMER** **IN DRYCLEANERS** **S128148980**
NE **122 N WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.158 mi.
836 ft. **Site 1 of 6 in cluster N**

Relative: **Higher**
Actual: **782 ft.**

DRYCLEANERS 2:

Name:	MCKINNEY HOMER
Last Facility Name:	McKinney Homer
Address:	122 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	122.5 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1916
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2664
ADDR ID:	1448
Latitude:	39.1673
Longitude:	-86.5333

Name:	MCKINNEY HOMER
Last Facility Name:	McKinney Homer
Address:	122 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	122.5 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1918
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2666
ADDR ID:	1448
Latitude:	39.1673
Longitude:	-86.5333

M63 **LAUNDERETTE** **IN DRYCLEANERS** **S128154519**
ESE **301 S WASHINGTON ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.160 mi.
845 ft. **Site 2 of 2 in cluster M**

Relative: **Lower**
Actual: **741 ft.**

DRYCLEANERS 2:

Name:	LAUNDERETTE
Last Facility Name:	Launderette
Address:	301 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	301 S Washington St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded

LAUNDERETTE (Continued) **S128154519**

Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2988
ADDR ID:	5346
Latitude:	39.1688
Longitude:	-86.5328

O64 **CONFIDENTIAL DOCUMENT DESTRUCTION** **IN SWRCY** **S109949686**
SE **318 S. WASHINGTON ST.** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.164 mi.
865 ft. **Site 1 of 2 in cluster O**

Relative: **Lower**
Actual: **739 ft.**

SWRCY:

Name:	CONFIDENTIAL DOCUMENT DESTRUCTION
Address:	318 S. WASHINGTON ST.
City,State,Zip:	BLOOMINGTON, IN 47401
Program Company:	Confidential Document Destruction
Program Contact Name:	Not reported
Address:	318 S. Washington St
City:	Bloomington
State:	IN
Zip:	47401
Contact Phone:	812-336-7779
County:	Monroe
Entity Type:	for-profit
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Highgrade Office, Mixed Office, Mixed Residential
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

N65
NNE
1/8-1/4
0.167 mi.
882 ft.

VANDEMAN CLEANERS & TAILORS
110.5 W 6TH
BLOOMINGTON, IN

Site 2 of 6 in cluster N

IN DRYCLEANERS **S128156416**
N/A

Relative:
Higher

Actual:
785 ft.

DRYCLEANERS 2:

Name:	VANDEMAN CLEANERS & TAILORS
Last Facility Name:	VanDeman Cleaners & Tailors
Address:	110.5 W 6TH
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	8/4/2021
Master AI ID:	Not reported
Reference Address:	110 1/2 W 6th
Reference City:	Bloomington
Cleaner Type:	Clothes Pressers & Cleaners
Reference Year:	1931
Reference Name:	Caron’s City Directory
Reference Notes:	There is a "5," before the address.
Reference ID:	3289
ADDR ID:	7316
Latitude:	39.1678
Longitude:	-86.5341

66
WSW
1/8-1/4
0.174 mi.
920 ft.

VACANT RESIDENCE
2101.5 S. ROGERS STREET
BLOOMINGTON, IN 47404

US BROWNFIELDS FINDS **1025961758**
N/A

Relative:
Higher

Actual:
768 ft.

US BROWNFIELDS:

Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-

VACANT RESIDENCE (Continued) **1025961758**

Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N

VACANT RESIDENCE (Continued) **1025961758**

Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528

VACANT RESIDENCE (Continued) **1025961758**

Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68
Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	10/16/2018
Ownership Entity:	Private
Completion Date:	1/4/2019
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-

VACANT RESIDENCE (Continued) **1025961758**

IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-

VACANT RESIDENCE (Continued) **1025961758**

Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68

Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC

VACANT RESIDENCE (Continued) **1025961758**

	Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y

VACANT RESIDENCE (Continued) **1025961758**

Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N

VACANT RESIDENCE (Continued) **1025961758**

Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68
Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-

VACANT RESIDENCE (Continued) **1025961758**

Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-

VACANT RESIDENCE (Continued) **1025961758**

Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68
Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009

VACANT RESIDENCE (Continued) **1025961758**

Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N

VACANT RESIDENCE (Continued) **1025961758**

Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-

VACANT RESIDENCE (Continued) **1025961758**

Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68

Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-

VACANT RESIDENCE (Continued) **1025961758**

Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y

VACANT RESIDENCE (Continued) **1025961758**

Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87

VACANT RESIDENCE (Continued) **1025961758**

Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68
Name:	VACANT RESIDENCE
Address:	2101.5 S. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-08-08-100-042.000-009
Parcel size:	0.68
Latitude:	39.155916
Longitude:	-86.538923
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC Redevelopment includes a proposed 350 unit residential/mixed use housing complex. Part of a 43 million dollar plan in conjunction with the 2113 S. Rogers site.
Datum:	-
Acres Property ID:	238420
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	16987
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	2/13/2019
Ownership Entity:	Private
Completion Date:	12/31/2019
Current Owner:	Routsong - Bryan St LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-

VACANT RESIDENCE (Continued) **1025961758**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	N
Asbestos found:	N
Asbestos cleaned:	N
Controled substance found:	N
Controled substance cleaned:	N
Drinking water affected:	N
Drinking water cleaned:	N
Groundwater affected:	N
Groundwater cleaned:	N
Lead contaminant found:	N
Lead cleaned up:	N
No media affected:	N
Unknown media affected:	N
Other cleaned up:	N
Other metals found:	Y
Other metals cleaned:	N
Other contaminants found:	N
Other contams found description:	-
PAHs found:	N
PAHs cleaned up:	N
PCBs found:	N
PCBs cleaned up:	N
Petro products found:	N
Petro products cleaned:	N
Sediments found:	N
Sediments cleaned:	N
Soil affected:	Y
Soil cleaned up:	N
Surface water cleaned:	N
VOCs found:	N
VOCs cleaned:	N
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	0.68
Surface Water:	N
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-

VACANT RESIDENCE (Continued) **1025961758**

No clean up:	-
Pesticides cleaned up:	N
Selenium cleaned up:	-
SVOCs cleaned up:	N
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	N
Selenium contaminant found:	-
SVOCs contaminant found:	N
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	N
Media affected indoor air:	N
Building material media cleaned up:	N
Indoor air media cleaned up:	N
Unknown media cleaned up:	N
Past Use: Multistory	-
Property Description:	The Subject Site is an unoccupied residential site and is located at 2101.5 South Rogers St., Bloomington, Indiana. The Subject Site was developed for residential use from at least as far back as 1900. The property remained residential and currently includes a vacant house. The site is currently owned by Routsong - Bryan St LLC
Below Poverty Number:	907
Below Poverty Percent:	33.76
Meidan Income:	1264
Meidan Income Number:	1528
Meidan Income Percent:	56.87
Vacant Housing Number:	72
Vacant Housing Percent:	4.93
Unemployed Number:	260
Unemployed Percent:	9.68

FINDS:
Registry ID: 110070570226

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

P67 **COLLEGE PARKING** **IN BROWNFIELDS** **S126245360**
South **310 350 402 406 S COLLEGE AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47403**
0.175 mi.
926 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
754 ft.

IN BROWNFIELD:

Name:	COLLEGE PARKING
Address:	310 350 402 406 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	4200303
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 4/29/2020
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

Q68 **ROLLIE JAY MASON** **IN OISC** **S123808886**
NW **401 W 6TH ST STE 2A** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47404**
0.179 mi.
947 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
769 ft.

OISC:

Name:	ROLLIE JAY MASON
Secondary Business Name:	Not reported
Address:	401 W 6TH ST STE 2A
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	12-Wood Destroying Pest Inspections
Result:	Pass
Credits Acquired:	0
Credits Required:	10
Credits Needed:	10
Credits Needed By:	12/31/2026
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	For Hire Applicator
License Expire Date:	12/31/2022
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	rmj@mejaro.com

Name:	JORIS ANDREW GEE
Secondary Business Name:	Not reported
Address:	401 W 6TH ST STE 2A
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	12-Wood Destroying Pest Inspections
Result:	Pass

ROLLIE JAY MASON (Continued) **S123808886**

Credits Acquired:	0
Credits Required:	10
Credits Needed:	10
Credits Needed By:	12/31/2023
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	For Hire Applicator
License Expire Date:	12/31/2022
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	clientcare@mejaro.com

N69 **VANDEMAN CLEANERS & TAILORS** **IN DRYCLEANERS** **S128152960**
NNE **209 N WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.184 mi.
972 ft. **Site 3 of 6 in cluster N**

Relative:
Higher

Actual:
788 ft.

DRYCLEANERS 2:

Name:	VANDEMAN CLEANERS & TAILORS
Last Facility Name:	VanDeman Cleaners & Tailors
Address:	209 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	209 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2829
ADDR ID:	3709
Latitude:	39.1676
Longitude:	-86.5336

Q70 **BTOWN CLEAN LLC** **IN DRYCLEANERS** **S128147826**
NW **405 W 6TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.185 mi.
978 ft. **Site 2 of 2 in cluster Q**

Relative:
Higher

Actual:
770 ft.

DRYCLEANERS 2:

Name:	BTOWN CLEAN LLC
Last Facility Name:	Btown Clean LLC
Address:	405 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN

BTOWN CLEAN LLC (Continued) **S128147826**

Location Quality:	Good
Location Date:	1/23/2020
Master AI ID:	Not reported
Reference Address:	405 W 6th St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	2019
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	88835
ADDR ID:	11448
Latitude:	39.1675
Longitude:	-86.5374
Name:	BTOWN CLEAN LLC
Last Facility Name:	Btown Clean LLC
Address:	405 W 6TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	1/23/2020
Master AI ID:	Not reported
Reference Address:	405 W 6th St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	2018
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	62880
ADDR ID:	11448
Latitude:	39.1675
Longitude:	-86.5374

R71 **MOTOR SVC INC** **RCRA-VSQG** **1000825541**
WNW **106 N ROGERS ST** **FINDS** **IND985048537**
1/8-1/4 **BLOOMINGTON, IN 47404** **ECHO**
0.186 mi. **IN IND WASTE**
980 ft. **Site 1 of 2 in cluster R** **IN MANIFEST**

Relative: **Higher**
Actual: **770 ft.**

RCRA Listings:

Date Form Received by Agency:	20040223
Handler Name:	Motor Svc Inc
Handler Address:	106 N ROGERS ST
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND985048537
Contact Name:	BILL CARPENTER
Contact Address:	106 N ROGERS ST
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-332-1484
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities

MOTOR SVC INC (Continued) **1000825541**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	106 N ROGERS ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	William Carpenter
Owner Type:	Private
Operator Name:	Motor Svc Inc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE

MOTOR SVC INC (Continued) **1000825541**

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS

MOTOR SVC INC (Continued) **1000825541**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: U238
Waste Description: CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: MOTOR SVC INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WILLIAM CARPENTER
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 106 N ROGERS ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47401
Owner/Operator Telephone: 812-332-1484
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MOTOR SVC INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 106 N ROGERS ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47401
Owner/Operator Telephone: 812-332-1484
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19970829
Handler Name: MOTOR SVC INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

MOTOR SVC INC (Continued) **1000825541**

Receive Date: 20040223
Handler Name: MOTOR SVC INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 81111
NAICS Description: AUTOMOTIVE MECHANICAL AND ELECTRICAL REPAIR AND MAINTENANCE

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20010329
Actual Return to Compliance Date: 20010524
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20010411
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: DCHES
Enforcement Responsible Sub-Organization: CM2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

MOTOR SVC INC (Continued) **1000825541**

Evaluation Action Summary:

Evaluation Date:	20010329
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DCHES
Evaluation Responsible Sub-Organization:	CM2
Actual Return to Compliance Date:	20010524
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:

Registry ID: 110003118288

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000825541
Registry ID:	110003118288
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003118288
Name:	MOTOR SVC INC
Address:	106 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47404

IND WASTE:

Name:	MOTOR SVC INCORPORATED
Address:	106 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47404
Object ID:	188919
Regulatory:	IND985048537
Program:	HW
Reference:	Access Point
Date Data Collected:	Not reported
Site Type:	Not reported

MOTOR SVC INC (Continued) **1000825541**

IN MANIFEST:

Name:	MOTOR SERVICE INC
Address:	106 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	IND985048537
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	IND985048537
Generator Type:	CEG
Generator Status:	Active Handler
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported
TSD Status:	Not reported
Handler Mailing Address:	106 N ROGERS ST
Handler Mailing City/State/Zip:	BLOOMINGTON, IN 47404
Contact Name:	BILL CARPENTER
Contact Telephone:	812-332-1484
Contact Type:	Environmental Coordinator

Name:	MOTOR SERVICE INC
Address:	106 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	IND985048537
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	MOTOR SERVICE INC
Address:	106 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	Not reported
EPA ID:	IND985048537

MOTOR SVC INC (Continued) **1000825541**

Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

S72 **QUARLES T. W.** **IN DRYCLEANERS** **S128153634**
North **229 N COLLEGE AVE** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.187 mi.
986 ft. **Site 1 of 4 in cluster S**

Relative: DRYCLEANERS 2:
Higher

Actual: | | |
779 ft. | Name: | QUARLES T. W. |
Last Facility Name:	Quarles T. W.
Address:	229 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	229 N College Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1920
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2863
ADDR ID:	4394
Latitude:	39.1678
Longitude:	-86.5349

L73 **THOMPSON-SUPERIOR CLEANERS** **IN DRYCLEANERS** **S128155640**
SSE **403 S WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.187 mi.
986 ft. **Site 3 of 4 in cluster L**

Relative: DRYCLEANERS 2:
Lower

Actual: | | |
740 ft. | Name: | SUPERIOR CLEANERS |
Last Facility Name:	Superior Cleaners
Address:	403 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Poor
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	403 S Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1991

THOMPSON-SUPERIOR CLEANERS (Continued) **S128155640**

Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	75192
ADDR ID:	6521
Latitude:	39.1627
Longitude:	-86.5336
Name:	THOMPSON-SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	403 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Poor
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	403 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1989
Reference Name:	Polk City Directory
Reference Notes:	Stand alone ad (1989-90)
Reference ID:	3157
ADDR ID:	6521
Latitude:	39.1627
Longitude:	-86.5336
Name:	SUPERIOR CLEANERS
Last Facility Name:	Superior Cleaners
Address:	403 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Poor
Location Date:	10/29/2021
Master AI ID:	Not reported
Reference Address:	403 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1992
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	83800
ADDR ID:	6521
Latitude:	39.1627
Longitude:	-86.5336

O74 **NORDBERG RENT-ALL** **IN LUST U001959040**
SE **340 S WASHINGTON ST** **IN UST N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.188 mi.
991 ft. **Site 2 of 2 in cluster O**

Relative: **Lower**
Actual: **739 ft.**

LUST:

Name:	NORDBERG RENT-ALL
Address:	340 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	18967
Incident Number:	199406533
Description:	NFA-Unconditional Closure
Priority:	Low

NORDBERG RENT-ALL (Continued) **U001959040**

UST:

Name:	NORDBERG RENT-ALL
Address:	340 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	18967
Owner Id:	11151
Company Name:	David R Duvall Inc
Mailing Address:	5005 E Sr 46
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47401
Tank Number:	1
AI ID:	44340
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	06/01/1984
Tank Capacity:	1000
Substance Desc:	Gasoline
Closed Date:	06/26/1994

L75 **DAVIS CLEANERS** **IN DRYCLEANERS** **S128155712**
SSE **408 S WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.189 mi.
997 ft. **Site 4 of 4 in cluster L**

Relative: **Lower**

Actual: **739 ft.**

DRYCLEANERS 2:

Name:	MASTER CLEANERS & DYER
Last Facility Name:	Davis Cleaners
Address:	408 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	408 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1934
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	3161
ADDR ID:	6593
Latitude:	39.1626
Longitude:	-86.5337
Name:	DAVIS CLEANERS
Last Facility Name:	Davis Cleaners
Address:	408 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	408 S Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory

DAVIS CLEANERS (Continued) **S128155712**

Reference Notes:	branch
Reference ID:	3163
ADDR ID:	6593
Latitude:	39.1626
Longitude:	-86.5337

P76 **MONROE CNTY TIRE** **RCRA NonGen / NLR** **1004699716**
South **414 S COLLEGE AVE** **FINDS** **IND985099621**
1/8-1/4 **BLOOMINGTON, IN 47403** **ECHO**
0.192 mi. **IN MANIFEST**
1013 ft. **Site 2 of 2 in cluster P**

Relative: **Higher**
Actual: **754 ft.**

RCRA Listings:

Date Form Received by Agency:	20010110
Handler Name:	Monroe Cnty Tire
Handler Address:	414 S COLLEGE AVE
Handler City,State,Zip:	BLOOMINGTON, IN 47403
EPA ID:	IND985099621
Contact Name:	BRIC COMPTON
Contact Address:	414 S COLLEGE AVE
Contact City,State,Zip:	BLOOMINGTON, IN 47403
Contact Telephone:	812-334-3236
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Municipal
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	414 S COLLEGE AVE
Mailing City,State,Zip:	BLOOMINGTON, IN 47403
Owner Name:	Holt Robert P
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline

MONROE CNTY TIRE (Continued) **1004699716**

2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: HOLT ROBERT P	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	414 S COLLEGE AVE
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-334-3236
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19930419
Handler Name: MONROE CNTY TIRE	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20010110
Handler Name: MONROE CNTY TIRE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

MONROE CNTY TIRE (Continued) **1004699716**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003120603

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004699716
Registry ID:	110003120603
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003120603
Name:	MONROE CNTY TIRE
Address:	414 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403

IN MANIFEST:

Name:	MONROE COUNTY TIRE
Address:	414 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	Not reported
EPA ID:	IND985099621

MONROE CNTY TIRE (Continued) **1004699716**

Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND985099621
Generator Type: Not reported
Generator Status: Dead Mail, mail was returned
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 414 S COLLEGE AVE
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47403
Contact Name: BRIC COMPTON
Contact Telephone: 812-334-3236
Contact Type: Environmental Coordinator

Name: MONROE COUNTY TIRE
Address: 414 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47403
Year: Not reported
EPA ID: IND985099621
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: MONROE COUNTY TIRE
Address: 414 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47403
Year: Not reported
EPA ID: IND985099621
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported

MONROE CNTY TIRE (Continued) **1004699716**

Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

N77 **MASTER CLEANERS & DYERS** **IN DRYCLEANERS** **S128152945**
NNE **208 N WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.192 mi.
1014 ft. **Site 4 of 6 in cluster N**

Relative: **Higher**

Actual: **787 ft.**

DRYCLEANERS 2:

Name:	MASTER CLEANERS & DYERS
Last Facility Name:	Master Cleaners & Dyers
Address:	208 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	208.5 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1929
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2825
ADDR ID:	3694
Latitude:	39.1679
Longitude:	-86.5333

Name:	MASTER CLEANERS & DYERS
Last Facility Name:	Master Cleaners & Dyers
Address:	208 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/2/2020
Master AI ID:	Not reported
Reference Address:	208.5 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1931
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	2827
ADDR ID:	3694
Latitude:	39.1679
Longitude:	-86.5333

N78 **ONE CALL COMMUNICATIONS PROPERTY** **IN AUL** **S106203059**
NE **115 E 6TH ST** **IN BROWNFIELDS** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.195 mi.
1027 ft. **Site 5 of 6 in cluster N**

Relative:
Higher

Actual:
781 ft.

AUL:

Name:	ONE CALL COMMUNICATIONS PROPERTY
Address:	115 E 6TH ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4040001
Program Area:	Brownfields
Affected Media:	Ground Water; Subsurface Soil
Date Ic Recorded:	06/25/2004
Description:	BFF Site Status Letter 6/11/2004
Control Method A:	Ground Water Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	VOCs - Volatile Organic Compounds
Comments A:	Not reported
Master AI ID:	45282
IC ID:	986
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=38710733

IN BROWNFIELD:

Name:	ONE CALL COMMUNICATIONS PROPERTY
Address:	115 E 6TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	4040001
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Inactive Warning Letter 10/24/2019 Comfort Letter 12/18/2019 Site Status Letter 6/11/2004
ERC Not Required:	Yes
Land Use Restriction:	No water wells (VOCs, TPH in soil and groundwater)
Recordation Date or Letter:	7/2/2004

N79 **A-1 CLEANERS** **IN DRYCLEANERS** **S128153124**
NNE **212 N WALNUT ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.197 mi.
1041 ft. **Site 6 of 6 in cluster N**

Relative:
Higher

Actual:
789 ft.

DRYCLEANERS 2:

Name:	A-1 CLEANERS
Last Facility Name:	A-1 Cleaners
Address:	212 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	212 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1945
Reference Name:	Polk City Directory

A-1 CLEANERS (Continued) **S128153124**

Reference Notes:	Not reported
Reference ID:	2831
ADDR ID:	3875
Latitude:	39.1676
Longitude:	-86.5335

80
ENE
1/8-1/4
0.199 mi.
1053 ft.

HABITAT FOR HUMANITY OF MONROE COUNTY
213 E. KIRKWOOD AVENUE
BLOOMINGTON, IN 47408

IN SWRCY **S123268778**
N/A

Relative:
Higher

Actual:
760 ft.

SWRCY:

Name:	HABITAT FOR HUMANITY OF MONROE COUNTY
Address:	213 E. KIRKWOOD AVENUE
City,State,Zip:	BLOOMINGTON, IN 47408
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

S81 **SIMEON PETER BAKER** **IN OISC** **S112255557**
North **119 W 7TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47404**
0.203 mi.
1071 ft. **Site 2 of 4 in cluster S**

Relative:
Higher

Actual:
785 ft.

OISC:

Name:	SIMEON PETER BAKER
Secondary Business Name:	Not reported
Address:	119 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404-3989
Status:	Active
Categories:	8-Community-Wide Mosquito Management
Result:	Pass
Credits Acquired:	0
Credits Required:	15
Credits Needed:	15
Credits Needed By:	12/31/2025
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	SBAKER@CO.MONROE.IN.US

Name:	SIMEON PETER BAKER
Secondary Business Name:	Not reported
Address:	119 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404-3989
Status:	Active
Categories:	7A-Industrial, Institutional, Structural and Health Related Pest Management
Result:	Pass
Credits Acquired:	0
Credits Required:	20
Credits Needed:	20
Credits Needed By:	12/31/2025
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported

SIMEON PETER BAKER (Continued) **S112255557**

Program Email: SBAKER@CO.MONROE.IN.US

S82 **SIMS CLEANERS** **IN DRYCLEANERS** **S128158563**
NNE **113 W 7TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.205 mi.
1081 ft. **Site 3 of 4 in cluster S**

Relative: **Higher**

Actual: **787 ft.**

DRYCLEANERS 2:

Name:	SIMS CLEANERS
Last Facility Name:	Sims Cleaners
Address:	113 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1952
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2609
ADDR ID:	961
Latitude:	39.1684
Longitude:	-86.5337

Name:	SIMS CLEANERS
Last Facility Name:	Sims Cleaners
Address:	113 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2611
ADDR ID:	961
Latitude:	39.1684
Longitude:	-86.5337

Name:	SIMS CLEANERS
Last Facility Name:	Sims Cleaners
Address:	113 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1960
Reference Name:	Polk City Directory
Reference Notes:	Not reported

SIMS CLEANERS (Continued) **S128158563**

Reference ID: 2612
ADDR ID: 961
Latitude: 39.1684
Longitude: -86.5337

Name: SIMS CLEANERS
Last Facility Name: Sims Cleaners
Address: 113 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 113 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1963
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2613
ADDR ID: 961
Latitude: 39.1684
Longitude: -86.5337

Name: SIMS CLEANERS
Last Facility Name: Sims Cleaners
Address: 113 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 113 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1966
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2614
ADDR ID: 961
Latitude: 39.1684
Longitude: -86.5337

Name: VANDEMAN CLEANERS
Last Facility Name: Sims Cleaners
Address: 113 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 113 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1945
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 2615
ADDR ID: 961
Latitude: 39.1684

SIMS CLEANERS (Continued) **S128158563**

Longitude:	-86.5337
Name:	VANDEMAN CLEANERS
Last Facility Name:	Sims Cleaners
Address:	113 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2617
ADDR ID:	961
Latitude:	39.1684
Longitude:	-86.5337
Name:	VANDEMAN CLEANERS
Last Facility Name:	Sims Cleaners
Address:	113 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	113 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2618
ADDR ID:	961
Latitude:	39.1684
Longitude:	-86.5337

83
NNE
1/8-1/4
0.206 mi.
1088 ft.

BLOOMINGTON PLANNING & TRANSPORTATION
105 W. 7TH ST
BLOOMINGTON, IN 47404

IN SCP **S123104150**
IN SPILLS **N/A**

Relative:
Higher

Actual:
790 ft.

SCP:

Name:	BLOOMINGTON PLANNING & TRANSPORTATION
Address:	105 W. 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	0000814
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	Inactive

BLOOMINGTON PLANNING & TRANSPORTATION (Continued) **S123104150**

Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

SPILL:

Name:	Not reported
Address:	105 W 7TH STREET BLOOMINGTON MONROE COUNTY
City,State,Zip:	BLOOMINGTON, IN
Facility ID:	83040
Incident Date:	08/29/2018
Report Date:	08/30/2018
Material:	Heating Oil
Spill Source:	Municipal
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Emergency Response-Other
Area Affected:	Not reported
Fish Killed:	Not reported
Water Supply Affected:	Not reported
Public Intake:	Not reported
Incident Status:	Closed

R84 **CIRCLE K 39** **IN LUST** **U001082646**
WNW **503 W KIRKWOOD AVE** **IN UST** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47403** **IN SPILLS**
0.208 mi.
1098 ft. **Site 2 of 2 in cluster R**

Relative:
Higher

Actual:
771 ft.

LUST:

Name:	CIRCLE K 39
Address:	503 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	15924
Incident Number:	199607133
Description:	NFA-Unconditional Closure
Priority:	Low

Name:	CIRCLE K 39
Address:	503 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	15924
Incident Number:	200502500
Description:	NFA-Unconditional Closure
Priority:	Medium

UST:

Name:	CIRCLE K 39
Address:	503 W KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	15924
Owner Id:	19740
Company Name:	Mac’s Convenience Stores LLC
Mailing Address:	4080 W Jonathan Moore Pike

CIRCLE K 39 (Continued) **U001082646**

Mailing Address 2: Not reported
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1
AI ID: 43314
TRACS Tank Number: 1C1
Tank Status: **Currently in use**
Install Date: 01/01/1988
Tank Capacity: 8000
Substance Desc: Gasoline
Closed Date: Not reported

Name: CIRCLE K 39
Address: 503 W KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47403

Tank Number: 2
AI ID: 43314
TRACS Tank Number: 2C1
Tank Status: **Currently in use**
Install Date: 01/01/1988
Tank Capacity: 8000
Substance Desc: Gasoline
Closed Date: Not reported

Name: CIRCLE K 39
Address: 503 W KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47403

Tank Number: 3
AI ID: 43314
TRACS Tank Number: 3C1
Tank Status: **Currently in use**
Install Date: 01/01/1988
Tank Capacity: 8000
Substance Desc: Gasoline
Closed Date: Not reported

Name: CIRCLE K 39
Address: 503 W KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47403

Tank Number: 4
AI ID: 43314
TRACS Tank Number: 4C1
Tank Status: **Currently in use**
Install Date: 01/01/1988
Tank Capacity: 2000
Substance Desc: Kerosene
Closed Date: Not reported

Name: CIRCLE K 39
Address: 503 W KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47403

Tank Number: 5
AI ID: 43314

CIRCLE K 39 (Continued) **U001082646**

TRACS Tank Number: 5C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 550
Substance Desc: Other
Closed Date: 07/22/1996

Name: CIRCLE K 39
Address: 503 W KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47403

Tank Number: 6
AI ID: 43314
TRACS Tank Number: 6C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 550
Substance Desc: Used Oil
Closed Date: 07/22/1996

SPILL:
Name: Not reported
Address: 503 W 5TH ST
City,State,Zip: BLOOMINGTON, IN 47403
Facility ID: 199607133
Incident Date: 07/22/1996
Report Date: 07/23/1996
Material: Waste Oil
Spill Source: Commercial
Recovered Amount: Not reported
Recovered Units: Gallons
Spilled Amount: Not reported
Spilled Units: Gallons
Contained: N
Water Affected: None
Spill Type: Spill
Area Affected: 40 Tons Removed
Fish Killed: 0
Water Supply Affected: Not reported
Public Intake: U
Incident Status: Not reported

85
SSE
1/8-1/4
0.212 mi.
1117 ft.

MARATHON BLOOMINGTON **IN SCP** **S105156762**
442 S. WALNUT STREET **IN SPILLS** **N/A**
BLOOMINGTON, IN 47401

Relative:
Lower

Actual:
738 ft.

SCP:
Name: MARATHON BLOOMINGTON
Address: 442 S. WALNUT STREET
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: Not reported
Facility Type: Not reported
Site ID: 200105234
Indicator Name: Not reported
Doc Number: Not reported

MARATHON BLOOMINGTON (Continued) **S105156762**

Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: NFA
Media Name: Groundwater
Contaminant: Petroleum
Chemical: Benzene

Name: MARATHON BLOOMINGTON
Address: 442 S. WALNUT STREET
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: Not reported
Facility Type: Not reported
Site ID: 200105234
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: NFA
Media Name: Groundwater
Contaminant: Petroleum
Chemical: Tert-butyl methyl ether

Name: MARATHON BLOOMINGTON
Address: 442 S. WALNUT STREET
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: Not reported
Facility Type: Not reported
Site ID: 200105234
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: NFA
Media Name: Soil
Contaminant: Petroleum
Chemical: Benzene

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 43980238
Date: 10/15/2002
Program: State Cleanup
Document Type: Monitoring
Size: 219 K
Status: Not reported
Media Name: Not reported

MARATHON BLOOMINGTON (Continued) **S105156762**

Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42387094
Date: 08/08/2001
Program: State Cleanup
Document Type: Correspondence
Size: 31 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42385677
Date: 01/20/2003
Program: State Cleanup
Document Type: Remediation
Size: 260 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42387096
Date: 07/22/2002
Program: State Cleanup
Document Type: Remediation
Size: 859 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401

MARATHON BLOOMINGTON (Continued) **S105156762**

Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42386758
Date: 03/25/2002
Program: State Cleanup
Document Type: Remediation
Size: 252 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42384301
Date: 03/28/2003
Program: State Cleanup
Document Type: Remediation
Size: 207 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42385843
Date: 12/01/2003
Program: State Cleanup
Document Type: Lab Data
Size: 403 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42385713
Date: 03/25/2002

MARATHON BLOOMINGTON (Continued) **S105156762**

Program: State Cleanup
Document Type: Monitoring
Size: 220 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42382458
Date: 12/15/2003
Program: State Cleanup
Document Type: Correspondence
Size: 348 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42386756
Date: 09/13/2002
Program: State Cleanup
Document Type: Site Characterization
Size: 16 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42382792
Date: 06/17/2003
Program: State Cleanup
Document Type: Monitoring
Size: 231 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported

MARATHON BLOOMINGTON (Continued) **S105156762**

Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42386992
Date: 03/15/2002
Program: State Cleanup
Document Type: Site Characterization
Size: 289 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42316379
Date: 03/15/2002
Program: State Cleanup
Document Type: Correspondence
Size: 49 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42315702
Date: 09/19/2003
Program: State Cleanup
Document Type: Site Closure
Size: 233 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570

MARATHON BLOOMINGTON (Continued) **S105156762**

Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42316383
Date: 07/22/2004
Program: State Cleanup
Document Type: Site Closure
Size: 97 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42314823
Date: 06/14/2004
Program: State Cleanup
Document Type: Site Characterization
Size: 135 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 42315270
Date: 03/09/2004
Program: State Cleanup
Document Type: Correspondence
Size: 409 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 41706678
Date: 11/09/2001
Program: State Cleanup

MARATHON BLOOMINGTON (Continued) **S105156762**

Document Type: Remediation
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MARATHON
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: 45570
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 41709910
Date: 07/01/2001
Program: State Cleanup
Document Type: Site Characterization
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

SPILL:
Name: Not reported
Address: 442 S WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Facility ID: 200105234
Incident Date: 05/24/2001
Report Date: 05/24/2001
Material: Petroleum Products
Spill Source: Commercial
Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: Not reported
Spilled Units: Not reported
Contained: Not reported
Water Affected: groundwater
Spill Type: Other
Area Affected: Not reported
Fish Killed: Not reported
Water Supply Affected: Not reported
Public Intake: N
Incident Status: Not reported

T86 **HOME LAUNDRY & CLEANERS** **IN DRYCLEANERS** **S128155545**
ESE **3RD ST & LINCOLN ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.215 mi.
1136 ft. **Site 1 of 5 in cluster T**

Relative:
Lower

Actual:
742 ft.

DRYCLEANERS 2:
Name: HOME LAUNDERERS DRY CLEANERS
Last Facility Name: Home Launderers Dry Cleaners
Address: 3RD ST & LINCOLN ST
City,State,Zip: BLOOMINGTON, IN

HOME LAUNDRY & CLEANERS (Continued) **S128155545**

Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	3rd St & Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1958
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3134
ADDR ID:	6420
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDRY & CLEANERS
Last Facility Name:	Home Launderers Dry Cleaners
Address:	3RD ST & LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	3rd St & Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Stand alone ads (1948)
Reference ID:	3135
ADDR ID:	6420
Latitude:	39.1645
Longitude:	-86.531

87
NNW
1/8-1/4
0.221 mi.
1165 ft.

WESTPART-AN INDIANA PARTNERSHIP **IN LUST** **U000192650**
314 W 7TH ST **IN UST** **N/A**
BLOOMINGTON, IN 47401

Relative:
Higher

Actual:
767 ft.

LUST:

Name:	WESTPART-AN INDIANA PARTNERSHIP
Address:	314 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	13845
Incident Number:	199212504
Description:	NFA-Unconditional Closure
Priority:	Low

Name:	WESTPART-AN INDIANA PARTNERSHIP
Address:	314 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	13845
Incident Number:	199206550
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	WESTPART-AN INDIANA PARTNERSHIP

WESTPART-AN INDIANA PARTNERSHIP (Continued) **U000192650**

Address: 314 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 13845
Owner Id: 4876
Company Name: Westpart An Indiana Partnership
Mailing Address: 1310 Nancy St
Mailing Address 2: Not reported
Mailing City,St,Zip: Bloomington, IN 47401

Tank Number: 1
AI ID: 46121
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 1000
Substance Desc: Gasoline
Closed Date: 06/01/1992

Name: WESTPART-AN INDIANA PARTNERSHIP
Address: 314 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 46121
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 500
Substance Desc: Used Oil
Closed Date: 06/09/1987

88
East
1/8-1/4
0.221 mi.
1165 ft.

CITY OF BLOOMINGTON **IN LUST** **U001082310**
300 E 4TH ST **IN UST** **N/A**
BLOOMINGTON, IN 47402

Relative:
Lower

Actual:
746 ft.

LUST:
Name: CITY OF BLOOMINGTON
Address: 300 E 4TH ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility ID: 17987
Incident Number: 199108519
Description: NFA-Unconditional Closure
Priority: Low

UST:
Name: CITY OF BLOOMINGTON
Address: 300 E 4TH ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility ID: 17987
Owner Id: 10254
Company Name: City Of Bloomington
Mailing Address: 220 E 3rd St Po Box 100
Mailing Address 2: Not reported
Mailing City,St,Zip: Bloomington, IN 47401

CITY OF BLOOMINGTON (Continued) **U001082310**

Tank Number:	1
AI ID:	44145
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	1000
Substance Desc:	Gasoline
Closed Date:	Not reported

S89 **HEATH'S BACHELOR LAUNDRY** **IN DRYCLEANERS** **S128153131**
North **212 W 7TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.221 mi.
1168 ft. **Site 4 of 4 in cluster S**

Relative:
Higher

Actual:
769 ft.

DRYCLEANERS 2:

Name:	HEATH'S BACHELOR LAUNDRY
Last Facility Name:	Heath's Bachelor Laundry
Address:	212 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	212 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Stand alone ads(1948)
Reference ID:	2837
ADDR ID:	3882
Latitude:	39.1686
Longitude:	-86.535

Name:	HEATH'S BACHELOR LAUNDRY
Last Facility Name:	Heath's Bachelor Laundry
Address:	212 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	212 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2838
ADDR ID:	3882
Latitude:	39.1686
Longitude:	-86.535

U90 **HOME LAUNDRY COMPANY** **IN DRYCLEANERS** **S128155601**
SE **401 S WASHINGTON ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.225 mi.
1186 ft. **Site 1 of 2 in cluster U**

Relative: **Lower**
Actual: **737 ft.**

DRYCLEANERS 2:

Name:	YELCH CLEANING COMPANY
Last Facility Name:	Home Laundry Company
Address:	401 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	401 S Washington St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1913
Reference Name:	Caron’s City Directory
Reference Notes:	Not reported
Reference ID:	3143
ADDR ID:	6478
Latitude:	39.1624
Longitude:	-86.532

Name:	HOME LAUNDRY COMPANY
Last Facility Name:	Home Laundry Company
Address:	401 S WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	401 S Washington St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1920
Reference Name:	Caron’s City Directory
Reference Notes:	Stand alone ad (1920-22)
Reference ID:	3145
ADDR ID:	6478
Latitude:	39.1624
Longitude:	-86.532

T91 **REED STEAM LAUNDRY** **IN DRYCLEANERS** **S128154679**
ESE **311 S LINCOLN ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.226 mi.
1192 ft. **Site 2 of 5 in cluster T**

Relative: **Lower**
Actual: **741 ft.**

DRYCLEANERS 2:

Name:	REED STEAM LAUNDRY
Last Facility Name:	Reed’s Laundry
Address:	311 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/10/2019
Master AI ID:	Not reported
Reference Address:	309-311 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded

REED STEAM LAUNDRY (Continued) **S128154679**

Reference Year:	1913
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	3013
ADDR ID:	5513
Latitude:	39.1643
Longitude:	-86.531
Name:	REED'S LAUNDRY
Last Facility Name:	Reed's Laundry
Address:	311 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/10/2019
Master AI ID:	Not reported
Reference Address:	309-311 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1916
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	3015
ADDR ID:	5513
Latitude:	39.1643
Longitude:	-86.531
Name:	REED'S LAUNDRY
Last Facility Name:	Reed's Laundry
Address:	311 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	9/10/2019
Master AI ID:	Not reported
Reference Address:	309-311 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1918
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	3017
ADDR ID:	5513
Latitude:	39.1643
Longitude:	-86.531

T92 **BARBARA LEONARD LUNDY** **IN LUST** **U003209438**
ESE **300 E 3RD** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47401**
0.226 mi.
1193 ft. **Site 3 of 5 in cluster T**

Relative: LUST:
Lower

Name:	BARBARA LEONARD LUNDY
Address:	300 E 3RD
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	19750
Incident Number:	199509504
Description:	NFA-Unconditional Closure
Priority:	Low

Actual:
742 ft.

T93 **LEONARDS HOME DRY CLEANERS** **IN SCP** **1000307449**
ESE **300 E 3RD ST** **RCRA NonGen / NLR** **IND981790397**
1/8-1/4 **BLOOMINGTON, IN 47402** **FINDS**
0.226 mi. **ECHO**
1193 ft. **Site 4 of 5 in cluster T** **IN DRYCLEANERS**
IN MANIFEST

Relative:
Lower

Actual:
742 ft.

SCP:

Name:	LEONARDS HOME DRY CLEANERS
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	40340
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	69883316
Date:	03/22/2013
Program:	State Cleanup
Document Type:	Enforcement
Size:	14 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	LEONARDS HOME DRY CLEANERS
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	40340
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	67830841
Date:	03/26/2013
Program:	State Cleanup
Document Type:	Enforcement
Size:	222 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	LEONARDS HOME DRY CLEANERS
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	40340
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	67638973
Date:	03/15/2013
Program:	State Cleanup
Document Type:	Enforcement
Size:	199 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Name: LEONARDS HOME DRYCLEANER
Address: 300 E. 3RD ST.
City,State,Zip: BLOOMINGTON, IN 47401
Facility Id: Not reported
Facility Type: Not reported
Site ID: 201334094
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: Active
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

RCRA Listings:

Date Form Received by Agency:	20040610
Handler Name:	Leonards Home Dry Cleaners
Handler Address:	300 E 3RD ST
Handler City,State,Zip:	BLOOMINGTON, IN 47402
EPA ID:	IND981790397
Contact Name:	R LEONARD
Contact Address:	P O BOX 1430
Contact City,State,Zip:	BLOOMINGTON, IN 47402
Contact Telephone:	812-336-6344
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	P O BOX 1430
Mailing City,State,Zip:	BLOOMINGTON, IN 47402
Owner Name:	Leonards Home Dry Cleaners
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LEONARDS HOME DRY CLEANERS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	300 E 3RD ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47402

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Owner/Operator Telephone: 812-336-6344
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LEONARDS HOME DRY CLEANERS
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 300 E 3RD ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47402
Owner/Operator Telephone: 812-336-6344
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20040610
Handler Name: LEONARDS HOME DRY CLEANERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19861014
Handler Name: LEONARDS HOME DRY CLEANERS

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003093777

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000307449
Registry ID:	110003093777
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003093777
Name:	LEONARDS HOME DRY CLEANERS
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401

DRYCLEANERS 2:

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	2001
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	77796
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1982
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	See Ad
Reference ID:	97393
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Home Launderers, Dry Cleaners, Sanitone Dry Cleaning
Reference ID:	97429
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97452
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	LEONARD'S LINEN SERVICE INC
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97453
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS AND DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97745
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	SANITONE CERTIFIED MASTER DRYCLEANER
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Authorized Service Home Launderers and Dry Cleaners
Reference ID:	97751
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS AND DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97806
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & CLNRS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1988
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	74948
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & CLNRS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1991

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	75187
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners Downtown
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	40340
Reference Address:	300 E 3rd St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1995
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	75290
ADDR ID:	5295
Latitude:	39.1645
Longitude:	-86.531

Click this hyperlink while viewing on your computer to access
28 additional IN DRYCLN2: record(s) in the EDR Site Report.

IN MANIFEST:

Name:	HOME DRYCLEANERS LAUNDERERS
Address:	300 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IND981790397
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	IND981790397
Generator Type:	Not reported
Generator Status:	Dead Mail, mail was returned
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported
TSD Status:	Not reported
Handler Mailing Address:	300 E 3RD ST
Handler Mailing City/State/Zip:	BLOOMINGTON, IN 47402

LEONARDS HOME DRY CLEANERS (Continued) **1000307449**

Contact Name: ROBERT LEONARD
Contact Telephone: 812-336-6344
Contact Type: Environmental Coordinator

Name: HOME DRYCLEANERS LAUNDERERS
Address: 300 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47402
Year: Not reported
EPA ID: IND981790397
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: HOME DRYCLEANERS LAUNDERERS
Address: 300 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47402
Year: Not reported
EPA ID: IND981790397
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

U94 **MASTER CLEANERS** **IN DRYCLEANERS** **S128155713**
SE **408 S WASHINGTON ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.227 mi.
1200 ft. **Site 2 of 2 in cluster U**

Relative: DRYCLEANERS 2:
Lower
Name: MASTER CLEANERS
Actual: Last Facility Name: Master Cleaners
735 ft. Address: 408 S WASHINGTON ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 10/29/2021
Master AI ID: Not reported
Reference Address: 408 S Washington St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded

MASTER CLEANERS (Continued) **S128155713**

Reference Year:	1945
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3164
ADDR ID:	6594
Latitude:	39.1697
Longitude:	-86.5321

V95 **FORMER SELECT CLEANERS** **IN SCP** **S113482591**
NNW **401 W 7TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47404**
0.233 mi.
1231 ft. **Site 1 of 4 in cluster V**

Relative:
Higher

Actual:
771 ft.

SCP:

Name:	FORMER SELECT CLEANERS
Address:	401 W. 7TH ST.
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	000000368
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	Active
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	FORMER SELECT CLEANERS
Address:	401 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	107740
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80251689
Date:	03/09/2016
Program:	State Cleanup
Document Type:	Site Characterization
Size:	51 M
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	FORMER SELECT CLEANERS
Address:	401 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	107740
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80251685
Date:	03/09/2016

FORMER SELECT CLEANERS (Continued) **S113482591**

Program: State Cleanup
Document Type: Site Characterization
Size: 49 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80251682
Date: 03/09/2016
Program: State Cleanup
Document Type: Site Characterization
Size: 43 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80251681
Date: 03/09/2016
Program: State Cleanup
Document Type: Site Characterization
Size: 43 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005470
Date: 01/07/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 35 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported

FORMER SELECT CLEANERS (Continued) **S113482591**

Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005467
Date: 01/07/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 30 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005465
Date: 01/06/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 20 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005464
Date: 01/06/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 23 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740

FORMER SELECT CLEANERS (Continued) **S113482591**

Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005463
Date: 01/06/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 23 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005461
Date: 01/06/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 12 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80005457
Date: 01/06/2015
Program: State Cleanup
Document Type: Site Characterization
Size: 33 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 70308814
Date: 08/12/2014
Program: State Cleanup

FORMER SELECT CLEANERS (Continued) **S113482591**

Document Type: Site Characterization
Size: 25 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 70295422
Date: 08/08/2014
Program: State Cleanup
Document Type: Site Characterization
Size: 27 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 70295421
Date: 08/08/2014
Program: State Cleanup
Document Type: Site Characterization
Size: 27 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 70270945
Date: 07/29/2014
Program: State Cleanup
Document Type: Site Characterization
Size: 22 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

FORMER SELECT CLEANERS (Continued) **S113482591**

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 70179563
Date: 03/19/2013
Program: State Cleanup
Document Type: Correspondence
Size: 23 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80272382
Date: 04/13/2016
Program: State Cleanup
Document Type: Monitoring
Size: 26 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80251716
Date: 03/09/2016
Program: State Cleanup
Document Type: Site Characterization
Size: 40 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported

FORMER SELECT CLEANERS (Continued) **S113482591**

Indicator Name: Not reported
Doc Number: 80251692
Date: 03/09/2016
Program: State Cleanup
Document Type: Site Characterization
Size: 34 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: FORMER SELECT CLEANERS
Address: 401 W 7TH ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 107740
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80251690
Date: 03/09/2016
Program: State Cleanup
Document Type: Site Characterization
Size: 53 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

T96 **NEW HOME LAUNDRY** **IN DRYCLEANERS** **S128154671**
ESE **309 S LINCOLN ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.245 mi.
1291 ft. **Site 5 of 5 in cluster T**

Relative: **Lower**

Actual: **743 ft.**

DRYCLEANERS 2:
Name: NEW HOME LAUNDRY
Last Facility Name: New Home Laundry Company Inc
Address: 309 S LINCOLN ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 309 S Lincoln St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1922
Reference Name: Caron’s City Directory
Reference Notes: Stand alone ad (1922-23)
Reference ID: 2991
ADDR ID: 5505
Latitude: 39.1641
Longitude: -86.5309

Name: NEW HOME LAUNDRY
Last Facility Name: New Home Laundry Company Inc
Address: 309 S LINCOLN ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good

NEW HOME LAUNDRY (Continued) **S128154671**

Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1929
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2993
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	NEW HOME LAUNDRY
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1931
Reference Name:	Caron's City Directory
Reference Notes:	Not reported
Reference ID:	2995
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	NEW HOME LAUNDRY COMPANY INC
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1958
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2997
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	NEW HOME LAUNDRY COMPANY INC
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St

NEW HOME LAUNDRY (Continued) **S128154671**

Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1960
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2998
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	NEW HOME LAUNDRY COMPANY
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1952
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	2999
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	NEW HOME LAUNDRY COMPANY
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3001
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	HOME LAUNDERERS-DRY CLEANERS
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950

NEW HOME LAUNDRY (Continued) **S128154671**

Reference Name:	Polk City Directory
Reference Notes:	Stand alone ads (1950, 1952-53, 1955)
Reference ID:	3002
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	HOME LAUNDERERS-DRY CLEANERS
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1952
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3003
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	HOME LAUNDERERS-DRY CLEANERS
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Stand alone ads (1950, 1952-53, 1955)
Reference ID:	3005
ADDR ID:	5505
Latitude:	39.1641
Longitude:	-86.5309
Name:	HOME LAUNDERERS-DRY CLEANERS
Last Facility Name:	New Home Laundry Company Inc
Address:	309 S LINCOLN ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	309 S Lincoln St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1958
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3006

NEW HOME LAUNDRY (Continued) **S128154671**

ADDR ID: 5505
Latitude: 39.1641
Longitude: -86.5309

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4 additional IN DRYCLN2: record(s) in the EDR Site Report.

V97 **FORMER SELECT CLEANERS** **IN SCP** **S113390634**
NW **415 W 7TH ST** **IN ASBESTOS** **N/A**
1/8-1/4 **BLOOMINGTON, IN 47404** **IN DRYCLEANERS**
0.246 mi. **IN MANIFEST**
1299 ft. **Site 2 of 4 in cluster V**

Relative: Higher

Actual: 777 ft.

SCP:
Name: BATTERY EXPRESS
Address: 415 W. 7TH ST.
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: Not reported
Facility Type: Not reported
Site ID: 201333859
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: Inactive
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

ASBESTOS:
Notification Number: 40348
Name: Not reported
Address: 415 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Removal Name: Not reported
Demolition Name: Jeff Guisewite Inc.
Notice Type: Original
Owner: Robert W. Stillions
Demoltion Renovation Postmark: Demolition
Fax Date: 23-AUG-16
Start Date: 01-OCT-16
End Date: 01-NOV-16
Year: Not reported
Inspection Date: Not reported
Inspector: Not reported
Warning Date: Not reported

DRYCLEANERS 2:
Name: SELECT CLEANERS
Last Facility Name: Select Cleaners Inc
Address: 415 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 107758

FORMER SELECT CLEANERS (Continued) **S113390634**

Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	See Ad Classification
Reference ID:	97433
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381

Name:	SELECT CLEANERS
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97788
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381

Name:	SELECT CLEANERS INC
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1972
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3231
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381

Name:	SELECT CLEANERS INC
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded

FORMER SELECT CLEANERS (Continued) **S113390634**

Reference Year:	1974
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3232
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381
Name:	SELECT CLEANERS INC
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1977
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3233
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381
Name:	SELECT CLEANERS INC
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1979
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3234
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381
Name:	SELECT CLEANERS INC
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1981
Reference Name:	Polk City Directory
Reference Notes:	Not reported

FORMER SELECT CLEANERS (Continued) **S113390634**

Reference ID: 3235
ADDR ID: 6735
Latitude: 39.1683
Longitude: -86.5381

Name: SUPERIOR CLEANERS INC
Last Facility Name: Select Cleaners Inc
Address: 415 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 107758
Reference Address: 415 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1969
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3236
ADDR ID: 6735
Latitude: 39.1683
Longitude: -86.5381

Name: SELECT CLEANERS
Last Facility Name: Select Cleaners Inc
Address: 415 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 107758
Reference Address: 415 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1950
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3237
ADDR ID: 6735
Latitude: 39.1683
Longitude: -86.5381

Name: SELECT CLEANERS
Last Facility Name: Select Cleaners Inc
Address: 415 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 107758
Reference Address: 415 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1952
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3238
ADDR ID: 6735
Latitude: 39.1683

FORMER SELECT CLEANERS (Continued) **S113390634**

Longitude:	-86.5381
Name:	SELECT CLEANERS
Last Facility Name:	Select Cleaners Inc
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	107758
Reference Address:	415 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3240
ADDR ID:	6735
Latitude:	39.1683
Longitude:	-86.5381

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4 additional IN DRYCLN2: record(s) in the EDR Site Report.

IN MANIFEST:

Name:	FORMER SELECT CLEANERS
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	2017
EPA ID:	INR000136754
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Annual
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	FORMER SELECT CLEANERS
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	2017
EPA ID:	INR000136754
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Annual
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported

FORMER SELECT CLEANERS (Continued) **S113390634**

Rejected:	Not reported
Returned:	Not reported
Name:	FORMER SELECT CLEANERS
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	2014
EPA ID:	INR000136754
Tons Generated:	0.00
Tons Shipped OffSite:	0.15
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported
Name:	FORMER SELECT CLEANERS
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404
Year:	2014
EPA ID:	INR000136754
Tons Generated:	0.00
Tons Shipped OffSite:	0.98
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

V98 **FORMER SELECT CLEANERS** **RCRA-SQG** **1016675852**
NW **415 W 7TH ST** **FINDS** **INR000136754**
1/8-1/4 **BLOOMINGTON, IN 47404** **ECHO**
0.246 mi.
1299 ft. **Site 3 of 4 in cluster V**

Relative: **Higher**
Actual: **777 ft.**

RCRA Listings:

Date Form Received by Agency:	20220301
Handler Name:	Former Select Cleaners
Handler Address:	415 W 7TH ST
Handler City,State,Zip:	BLOOMINGTON, IN 47404-3936
EPA ID:	INR000136754
Contact Name:	CHUCK GOODWIN
Contact Address:	1 INDIANA SQ STE 2335
Contact City,State,Zip:	INDIANAPOLIS, IN 46204
Contact Telephone:	303-382-5473
Contact Fax:	Not reported
Contact Email:	CGOODWIN@RAMBOLL.COM
Contact Title:	Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1 INDIANA SQ STE 2335
Mailing City,State,Zip:	INDIANAPOLIS, IN 46204
Owner Name:	Robert Stillions Legacy Llc
Owner Type:	Private
Operator Name:	Robert W Stillions Trust
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220526
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

FORMER SELECT CLEANERS (Continued) **1016675852**

Biennial: List of Years
Year: 2021

Click Here for Biennial Reporting System Data:
Year: 2019

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT STILLIONS LEGACY LLC
Legal Status: Private
Date Became Current: 20211230
Date Ended Current: Not reported
Owner/Operator Address: N/A
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT W STILLIONS TRUST

FORMER SELECT CLEANERS (Continued) **1016675852**

Legal Status:	Private
Date Became Current:	20000328
Date Ended Current:	Not reported
Owner/Operator Address:	1209 W 2ND ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-822-2294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROBERT W STILLIONS TRUST
Legal Status:	Private
Date Became Current:	20000328
Date Ended Current:	Not reported
Owner/Operator Address:	1209 W 2ND ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-822-2294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROBERT W STILLIONS TRUST
Legal Status:	Private
Date Became Current:	20000328
Date Ended Current:	Not reported
Owner/Operator Address:	1209 W 2ND ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-822-2294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ROBERT W STILLIONS TRUST
Legal Status:	Private
Date Became Current:	20000328
Date Ended Current:	Not reported
Owner/Operator Address:	1209 W 2ND ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-822-2294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ROBERT W STILLIONS TRUST
Legal Status:	Private
Date Became Current:	20000328
Date Ended Current:	Not reported
Owner/Operator Address:	1209 W 2ND ST
Owner/Operator City,State,Zip:	BLOOMINGTON, IN 47403
Owner/Operator Telephone:	812-822-2294
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT W STILLIONS TRUST
Legal Status: Private
Date Became Current: 20000328
Date Ended Current: Not reported
Owner/Operator Address: 1209 W 2ND ST
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47403
Owner/Operator Telephone: 812-822-2294
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200302
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20210226
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220301
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

FORMER SELECT CLEANERS (Continued) **1016675852**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20180614
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160324
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170118
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190422
Handler Name: FORMER SELECT CLEANERS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56291
NAICS Description: REMEDIATION SERVICES

NAICS Code: 562910
NAICS Description: REMEDIATION SERVICES

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20150409
Actual Return to Compliance Date: 20150420
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20150409
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: 20150420
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: YSHER
Enforcement Responsible Sub-Organization: DAS
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20150409
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	YSHER
Evaluation Responsible Sub-Organization:	DAS
Actual Return to Compliance Date:	20150420
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20200728
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KWHIT
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FORMER SELECT CLEANERS (Continued) **1016675852**

FINDS:
Registry ID: 110059667524

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER
Registry ID: 110059693381

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016675852
Registry ID:	110059667524
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110059667524
Name:	FORMER SELECT CLEANERS
Address:	415 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47404

V99 **SELECT-O-MATIC** **IN DRYCLEANERS** **S128155895**
NW **417 W 7TH ST** **N/A**
1/8-1/4 **BLOOMINGTON, IN**
0.249 mi.
1315 ft. **Site 4 of 4 in cluster V**

Relative:
Higher

Actual:
777 ft.

DRYCLEANERS 2:

Name:	SELECT-O-MATIC SPEED-WASH LAUNDRY
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Not reported
Reference ID:	97812
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376

Name:	SELECT-O-MATIC SPEED-WASH LAUNDRY
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST

SELECT-O-MATIC (Continued) **S128155895**

City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 417 W 7
Reference City: Bloomington
Cleaner Type: Laundries Self Service
Reference Year: 1973
Reference Name: Indiana Bell Telephone Directory for Bloomington
Reference Notes: Not reported
Reference ID: 97863
ADDR ID: 6777
Latitude: 39.1685
Longitude: -86.5376

Name: SELECT-O-MATIC
Last Facility Name: Select-O-Matic
Address: 417 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 417 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1958
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3250
ADDR ID: 6777
Latitude: 39.1685
Longitude: -86.5376

Name: SELECT-O-MATIC
Last Facility Name: Select-O-Matic
Address: 417 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: Not reported
Reference Address: 417 W 7th St
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1960
Reference Name: Polk City Directory
Reference Notes: Not reported
Reference ID: 3251
ADDR ID: 6777
Latitude: 39.1685
Longitude: -86.5376

Name: SELECT-O-MATIC
Last Facility Name: Select-O-Matic
Address: 417 W 7TH ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018

SELECT-O-MATIC (Continued) **S128155895**

Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1963
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3252
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376
Name:	SELECT-O-MATIC
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1966
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3253
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376
Name:	SELECT-O-MATIC
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1969
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3254
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376
Name:	SELECT-O-MATIC
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington

SELECT-O-MATIC (Continued) **S128155895**

Cleaner Type:	Subtype Not Recorded
Reference Year:	1972
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3255
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376
Name:	SELECT-O-MATIC
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1974
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3256
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376
Name:	SELECT-O-MATIC
Last Facility Name:	Select-O-Matic
Address:	417 W 7TH ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	Not reported
Reference Address:	417 W 7th St
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1977
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3257
ADDR ID:	6777
Latitude:	39.1685
Longitude:	-86.5376

Click this hyperlink while viewing on your computer to access additional IN DRYCLN2: detail in the EDR Site Report.

W100
NE
1/4-1/2
0.261 mi.
1379 ft.

PARKING LOT
210 E 7TH ST
BLOOMINGTON, IN 47403

Site 1 of 2 in cluster W

IN BROWNFIELDS **S117332858**
N/A

Relative:
Higher

Actual:
776 ft.

IN BROWNFIELD:

Name:	PARKING LOT
Address:	210 E 7TH ST
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	4141104
Project Manager:	Tracey Michael
AI Id:	109031
Financial Assistance:	Not reported
Other Assistance:	Comfort Letter 2/18/2015
ERC Not Required:	Yes
Land Use Restriction:	Evaluate structures for vapor instrusion by sampling indoor air ir install vapor mitigation system (VOCs in soil)
Recordation Date or Letter:	Not reported

W101
NNE
1/4-1/2
0.266 mi.
1405 ft.

N33171
301 N WASHINGTON ST
BLOOMINGTON, IN 47401

Site 2 of 2 in cluster W

IN LUST **U003968776**
IN UST **N/A**
IN AIRS
IN TIER 2

Relative:
Higher

Actual:
789 ft.

LUST:

Name:	N33171
Address:	301 N WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	17678
Incident Number:	199106548
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	N33171
Address:	301 N WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	17678
Owner Id:	5239
Company Name:	AT & T Services Inc
Mailing Address:	308 S Akard Rm 1700
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Dallas, TX 75202
Tank Number:	1
AI ID:	10739
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1967
Tank Capacity:	25000
Substance Desc:	Diesel
Closed Date:	04/01/1991
Name:	N33171
Address:	301 N WASHINGTON ST
City,State,Zip:	BLOOMINGTON, IN 47401

N33171 (Continued) **U003968776**

Tank Number: 2
AI ID: 10739
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1967
Tank Capacity: 25000
Substance Desc: Diesel
Closed Date: 04/01/1991

Name: N33171
Address: 301 N WASHINGTON ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 3
AI ID: 10739
TRACS Tank Number: 3C1
Tank Status: **Currently in use**
Install Date: 04/01/1994
Tank Capacity: 10000
Substance Desc: Diesel
Closed Date: Not reported

AIRS:
Name: AT&T COMMUNICATIONS OF INDIANA, INC.
City,State,Zip: BLOOMINGTON, IN 47408
Status: Issued
Source ID: 105-00023
Responsible Official Name: Gary Freeman
Responsible Official Phone: 317-233-5334
SIC Code: 4813
Permit ID: 105-27556-00023
Permit Level: SSOA
Subtype Qualifier: New Source Review (120)
Issue Date: 05/18/2009
End Date: Not reported
Source Contact: DeRonica Lamb
Application Received Start Date: 03/02/2009
Application Received End Date: Not reported
Public Notice Begins Start Date: 04/08/2009
Public Notice Begins End Date: 05/08/2009
Proposed Internet Upload Start Date: Not reported
Proposed Internet Upload End Date: Not reported

Name: AT&T COMMUNICATIONS OF INDIANA, INC.
City,State,Zip: BLOOMINGTON, IN 47408
Status: Issued
Source ID: 105-00023
Responsible Official Name: Kathy Moore
Responsible Official Phone: 317-233-0871
SIC Code: 4813
Permit ID: 105-4185-00023 (No Electronic File Exists)
Permit Level: Construction
Subtype Qualifier: State
Issue Date: 02/02/1995
End Date: Not reported
Source Contact: DeRonica Lamb
Application Received Start Date: 11/10/1994

N33171 (Continued) **U003968776**

Application Received End Date: Not reported
Public Notice Begins Start Date: 12/12/1994
Public Notice Begins End Date: 01/11/1995
Proposed Internet Upload Start Date: Not reported
Proposed Internet Upload End Date: Not reported

TIER 2:
Name: AT&T INDIANA TELEPHONE
Address: 301 N WASHINGTON ST
City,State,Zip: BLOOMINGTON, IN
Facility Id: 10
SIC Code: 4813
Chemical Name: Sulfuric acid
Chemical Info: CAS Num:7664939 Chemical Id:719 Submission Code:312
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:
Location Description: Not reported
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt: 03

Facility Id: 13317
SIC Code: Not reported
Chemical Name: Not reported
Chemical Info: CAS Num: Chemical Id: Submission Code:
More Chemical Info: Max Daily Amt: Quantity: 0 Container Type:
Location Description: Not reported
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:

Facility Id: 10
Facility Id: 13317

---

102 SSW 1/4-1/2 0.278 mi. 1467 ft. **INDIANA UNIVERSITY HEALTH BLOOMINGTON INC** **IN BROWNFIELDS** **S123793642**
301 W 2ND ST **IN SPILLS** **N/A**
BLOOMINGTON, IN 47403 **IN ASBESTOS**

Relative: Lower
Actual: 749 ft.

IN BROWNFIELD:
Name: INDIANA UNIVERSITY HEALTH BLOOMINGTON INC
Address: 301 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47403
Facility ID: 4220406
Project Manager: Not reported
AI Id: Not reported
Financial Assistance: Not reported
Other Assistance: Not reported
ERC Not Required: Not reported
Land Use Restriction: Not reported
Recordation Date or Letter: Not reported

SPILL:
Name: Not reported
Address: 301 W 2ND ST BLOOMINGTON, IN MONROE COUNTY
City,State,Zip: BLOOMINGTON, IN 46204
Facility ID: 85635
Incident Date: Not reported
Report Date: 03/01/2019

INDIANA UNIVERSITY HEALTH BLOOMINGTON INC (Continued) **S123793642**

Material:	Not reported
Spill Source:	Not reported
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	Not reported
Spilled Units:	Not reported
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Emergency Response-Reportable Spill
Area Affected:	Not reported
Fish Killed:	Not reported
Water Supply Affected:	Not reported
Public Intake:	Not reported
Incident Status:	Closed

ASBESTOS:

Notification Number:	57410
Name:	Not reported
Address:	301 W 2ND ST - #1
City,State,Zip:	BLOOMINGTON, IN
Removal Name:	Not reported
Demolition Name:	Renascent, Inc.
Notice Type:	Original
Owner:	City of Bloomington
Demoltion Renovation Postmark:	Demolition
Fax Date:	08-AUG-22
Start Date:	22-AUG-22
End Date:	22-OCT-22
Year:	2022
Inspection Date:	Not reported
Inspector:	Not reported
Warning Date:	Not reported

---

103 **DOWNTOWN 66 #20** **IN LUST 1000514379**
SSE **501 S WALNUT** **IN UST N/A**
1/4-1/2 **BLOOMINGTON, IN 47401**
0.281 mi.
1482 ft.

Relative:
Lower

Actual:
736 ft.

LUST:

Name:	DOWNTOWN 66 #20
Address:	501 S WALNUT
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	3608
Incident Number:	200309512
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	DOWNTOWN 66 #20
Address:	501 S WALNUT
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	3608
Owner Id:	5778
Company Name:	C & S Inc
Mailing Address:	2001 Main St
Mailing Address 2:	PO Box 39

DOWNTOWN 66 #20 (Continued) **1000514379**

Mailing City,St,Zip: Tell City, IN 47586

Tank Number: 1
AI ID: 42661
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 6000
Substance Desc: Gasoline
Closed Date: 08/18/2003

Name: DOWNTOWN 66 #20
Address: 501 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 42661
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 4000
Substance Desc: Gasoline
Closed Date: 08/18/2003

Name: DOWNTOWN 66 #20
Address: 501 S WALNUT
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 3
AI ID: 42661
TRACS Tank Number: 3C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 560
Substance Desc: Used Oil
Closed Date: 08/18/2003

X104 **CLARK STATION** **IN LUST** **U003209770**
SW **2ND & ROGERS ST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.308 mi.
1628 ft. **Site 1 of 2 in cluster X**

Relative: LUST:
Higher
Actual: Name: CLARK STATION
757 ft. Address: 2ND & ROGERS ST
City,State,Zip: BLOOMINGTON, IN 47404
Facility ID: 20498
Incident Number: 199111097
Description: NFA-Unconditional Closure
Priority: Low

Y105 **SMALLWOOD PLAZA LLC** **IN SCP** **S123682057**
North **415 N COLLEGE** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.310 mi.
1638 ft. **Site 1 of 2 in cluster Y**

Relative:
Higher

Actual:
787 ft.

SCP:

Name:	SMALLWOOD PLAZA LLC
Address:	415 N COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47404
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	200303041
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	NFA
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

X106 **VACANT CLARK OIL SERVICE STATION** **IN LUST** **U000191514**
SW **506 W 2ND ST** **IN UST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47401**
0.314 mi.
1656 ft. **Site 2 of 2 in cluster X**

Relative:
Higher

Actual:
759 ft.

LUST:

Name:	VACANT CLARK OIL SERVICE STATION
Address:	506 W 2ND ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	12204
Incident Number:	199003522
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	VACANT CLARK OIL SERVICE STATION
Address:	506 W 2ND ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	12204
Owner Id:	4873
Company Name:	West Second Street Partnership
Mailing Address:	514 W 2nd St
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47401
Tank Number:	1
AI ID:	41592
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1970
Tank Capacity:	4000
Substance Desc:	Gasoline
Closed Date:	02/15/1990

VACANT CLARK OIL SERVICE STATION (Continued) **U000191514**

Name: VACANT CLARK OIL SERVICE STATION
Address: 506 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 41592
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1970
Tank Capacity: 4000
Substance Desc: Gasoline
Closed Date: 02/15/1990

Name: VACANT CLARK OIL SERVICE STATION
Address: 506 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 3
AI ID: 41592
TRACS Tank Number: 3C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1970
Tank Capacity: 4000
Substance Desc: Gasoline
Closed Date: 02/15/1990

Name: VACANT CLARK OIL SERVICE STATION
Address: 506 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 4
AI ID: 41592
TRACS Tank Number: 4C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1970
Tank Capacity: 4000
Substance Desc: Gasoline
Closed Date: 02/15/1990

Name: VACANT CLARK OIL SERVICE STATION
Address: 506 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 5
AI ID: 41592
TRACS Tank Number: 5C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1970
Tank Capacity: 4000
Substance Desc: Gasoline
Closed Date: 02/15/1990

Y107 **ST SEMICONDUCTERS OF INDIANA** **SEMS-ARCHIVE** **1015733813**
North **415 N COLLEGE AVE** **CORRACTS** **IND000714527**
1/4-1/2 **BLOOMINGTON, IN 47401** **RCRA-TSDF**
0.314 mi. **IN SCP**
1659 ft. **Site 2 of 2 in cluster Y** **RCRA NonGen / NLR**
IN MANIFEST

Relative:
Higher

Actual:
783 ft.

Client Plot

SEMS Archive:

Site ID:	0506585
EPA ID:	IND000714527
Name:	ST. SEMICONDUCTERS OF INDIANA
Address:	415 N. COLLEGE AVE
Address 2:	Not reported
City,State,Zip:	BLOOMINGTON, IN 47401
Cong District:	08
FIPS Code:	18105
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	05
Site ID:	0506585
EPA ID:	IND000714527
Site Name:	ST. SEMICONDUCTERS OF INDIANA
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1992-09-16 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	05
Site ID:	0506585
EPA ID:	IND000714527
Site Name:	ST. SEMICONDUCTERS OF INDIANA
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1991-10-29 05:00:00
Finish Date:	1991-10-29 05:00:00
Qual:	Not reported
Current Action Lead:	St Perf

Region:	05
Site ID:	0506585
EPA ID:	IND000714527
Site Name:	ST. SEMICONDUCTERS OF INDIANA
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEQ: 1
Start Date: Not reported
Finish Date: 1992-09-16 04:00:00
Qual: N
Current Action Lead: St Perf

CORRACTS:
Name: ST SEMICONDUCTERS OF INDIANA
Address: 415 N COLLEGE AVE
Address 2: Not reported
EPA ID: IND000714527
Area Name: ENTIRE FACILITY
Corrective Action: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY
Actual Date: 20090501
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA TSDF:
Treatment Storage and Disposal Type: Storage
Full Enforcement Universe: Not reported
Corrective Action Workload Universe: No
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Storage
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
Operating TSDF Universe: Not reported
Commercial TSD Indicator: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: Yes

SCP:
Name: ST SEMICONDUCTORS OF INDIANA INCORPORATED
Address: 415 N COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 40019
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 80109211
Date: 08/13/2013
Program: State Cleanup
Document Type: Site Closure
Size: 4 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Name: ST SEMICONDUCTORS OF INDIANA INCORPORATED
Address: 415 N COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 40019
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48742936
Date: 05/13/2003
Program: State Cleanup
Document Type: Remediation
Size: 11 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: ST SEMICONDUCTORS OF INDIANA INCORPORATED
Address: 415 N COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 40019
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48742714
Date: 03/11/2003
Program: State Cleanup
Document Type: Remediation
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: ST SEMICONDUCTORS OF INDIANA INCORPORATED
Address: 415 N COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47404
Facility Id: 40019
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 48715315
Date: 05/15/2003
Program: State Cleanup
Document Type: Remediation
Size: 3 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

RCRA Listings:
Date Form Received by Agency: 19800818
Handler Name: St Semiconducters Of Indiana
Handler Address: 415 N COLLEGE AVE
Handler City,State,Zip: BLOOMINGTON, IN 47401
EPA ID: IND000714527

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Contact Name:	LANE JORGENSEN
Contact Address:	PO BOX 609
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-332-1435
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 609
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	St Semiconducters Ind
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U154
Waste Description:	METHANOL (I) (OR) METHYL ALCOHOL (I)
Waste Code:	U226

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Waste Description: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ST SEMICONDUCTERS IND	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NAME NOT REPORTED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19800818
Handler Name: ST SEMICONDUCTERS OF INDIANA	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19951218
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19990621

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19951218
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19951218
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930121
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19990621
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	BLEPT
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	48000
Paid Amount:	10000
Final Count:	1
Final Amount:	48000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930719
Actual Return to Compliance Date: 19950626
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 19930817
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930719
Actual Return to Compliance Date: 19950626
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 003
Date of Enforcement Action: 19931119
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 25000
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19951218
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	19980916
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person:	BLEPT
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19940815
Actual Return to Compliance Date: 19941024
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 005
Date of Enforcement Action: 19940901
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: MKLEI
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930121
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	19960830
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BLEPT
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19930121
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	19960830
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BLEPT
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Financial Requirements
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Unknown
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19950626
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	POROU
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19951218
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19951218
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Manifest
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Preparedness and Prevention
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 009
Date of Enforcement Action: 19990621

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	60000
Final Monetary Amount:	42500
Paid Amount:	43700
Final Count:	1
Final Amount:	42500
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930121
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	19960830
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	IN
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	BLEPT
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	19930428

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19950626
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: 60000
Final Monetary Amount: 42500
Paid Amount: 43700
Final Count: 1
Final Amount: 42500

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 008
Date of Enforcement Action: 19980916

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: STATE COMPLIANCE ORDER 3008(A)
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19930428
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: POROU
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Contingency Plan and Emergency Procedures
Date Violation was Determined: 19911108
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19920904

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: R5
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: UNKNO
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	19911108
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	19920904
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	R5
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	UNKNO
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930121
Actual Return to Compliance Date:	20030213
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	009
Date of Enforcement Action:	19990621

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 48000
Paid Amount: 10000
Final Count: 1
Final Amount: 48000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930121
Actual Return to Compliance Date: 20030213
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 007
Date of Enforcement Action: 19960830
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: IN
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: BLEPT
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19961018
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MWILH
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911107
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	BOSSI
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930719
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950626
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930719
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950626
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19911129
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20030213
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19911108
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20030213
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19951218
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: POROU
Evaluation Responsible Sub-Organization: ENF
Actual Return to Compliance Date: 20030213
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19911129
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20030213
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19951218
Evaluation Responsible Agency: State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940815
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	JRDOO
Evaluation Responsible Sub-Organization:	DAS
Actual Return to Compliance Date:	19941024
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Undetermined
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19850523
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951218
Evaluation Responsible Agency:	State

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19911108
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030213
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Evaluation Date:	19911129
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930121
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	CASE DEVELOPMENT INSPECTION
Evaluation Responsible Person Identifier:	SORMS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19951218
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	POROU
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20030213
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

IN MANIFEST:

Name:	ST-SEMICONDUCTORS OF INDIANA INC
Address:	415 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND000714527
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Manifest Handler:

EPA Id #:	IND000714527
Generator Type:	Not reported
Generator Status:	7
Transporter Type:	Code no longer valid
Transporter Status:	Non Active
TSD Type:	Not reported
TSD Status:	Not reported
Handler Mailing Address:	PO BOX 1390
Handler Mailing City/State/Zip:	SCOTTSDATE, AZ 85252-1390
Contact Name:	LANE JORGENSEN
Contact Telephone:	812-332-1435
Contact Type:	Environmental Coordinator

Name:	ST-SEMICONDUCTORS OF INDIANA INC
Address:	415 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND000714527
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	ST-SEMICONDUCTORS OF INDIANA INC
Address:	415 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	IND000714527

ST SEMICONDUCTERS OF INDIANA (Continued) **1015733813**

Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

---

108 South 1/4-1/2 0.332 mi. 1753 ft.

KROGER STORE #91
528 S COLLEGE
BLOOMINGTON, IN 47401

IN SWRCY **S108836512**
IN SPILLS **N/A**
IN MANIFEST

Relative: Lower

Actual: 740 ft.

SWRCY:

Name:	KROGER
Address:	528 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

KROGER STORE #91 (Continued) **S108836512**

Name:	KROGER
Address:	528 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

Name:	KROGER
Address:	528 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	812-339-3351
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported

KROGER STORE #91 (Continued) **S108836512**

Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

SPILL:

Name:	Not reported
Address:	528 S COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	199003019
Incident Date:	03/05/1990
Report Date:	03/05/1990
Material:	Diesel Fuel
Spill Source:	Trans - Truck
Recovered Amount:	100
Recovered Units:	Gallons
Spilled Amount:	120
Spilled Units:	Gallons
Contained:	N
Water Affected:	Clear Creek
Spill Type:	Spill
Area Affected:	5000 Sq Ft
Fish Killed:	0
Water Supply Affected:	Not reported
Public Intake:	N
Incident Status:	Not reported

IN MANIFEST:

Name:	KROGER STORE #91
Address:	528 S COLLEGE
City,State,Zip:	BLOOMINGTON, IN 47401
Year:	Not reported
EPA ID:	INR000120295
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported

KROGER STORE #91 (Continued) **S108836512**

Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: INR000120295
Generator Type: CEG
Generator Status: Active Handler
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 5960 CASTLEWAY W DR
Handler Mailing City/State/Zip: INDIANAPOLIS, IN 46250
Contact Name: MARGO ROZELLE
Contact Telephone: 317-579-8281
Contact Type: Environmental Coordinator

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109 South 1/4-1/2 0.354 mi. 1867 ft.

INDIAN REFINING
640 S MORTON ST
BLOOMINGTON, IN 47403

IN BROWNFIELDS **S128673005**
IN ASBESTOS **N/A**

Relative: Lower

Actual: 744 ft.

IN BROWNFIELD:
Name: INDIAN REFINING
Address: 640 S MORTON ST
City,State,Zip: BLOOMINGTON, IN 47403
Facility ID: 4220306
Project Manager: Not reported
AI Id: Not reported
Financial Assistance: Not reported
Other Assistance: Not reported
ERC Not Required: Not reported
Land Use Restriction: Not reported
Recordation Date or Letter: Not reported

ASBESTOS:
Notification Number: 57555
Name: Not reported
Address: 640 S MORTON STREET
City,State,Zip: BLOOMINGTON, IN
Removal Name: Not reported
Demolition Name: Renascent, Inc.
Notice Type: Original
Owner: City of Bloomington
Demoltion Renovation Postmark: Demolition
Fax Date: 20-AUG-22
Start Date: 22-AUG-22
End Date: 22-OCT-22
Year: 2022
Inspection Date: Not reported
Inspector: Not reported
Warning Date: Not reported

Z110 **D AND G OHC INC** **IN SCP** **1000309123**
NNE **501 N WALNUT ST** **IN SPILLS** **IND981782311**
1/4-1/2 **BLOOMINGTON, IN 47401** **RCRA NonGen / NLR**
0.359 mi. **FINDS**
1896 ft. **Site 1 of 2 in cluster Z** **ECHO**
IN DRYCLEANERS
Relative: **IN MANIFEST**
Higher

Actual: **805 ft.**

SCP:

Name:	TORTILLA FLATS
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47408
Facility Id:	48994
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	43049543
Date:	05/08/2006
Program:	State Cleanup
Document Type:	Site Closure
Size:	6 M
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

SPILL:

Name:	Not reported
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	199509168
Incident Date:	Not reported
Report Date:	09/22/1995
Material:	Tetrachloroethylene/Gas
Spill Source:	Commercial
Recovered Amount:	0
Recovered Units:	Unknown
Spilled Amount:	0
Spilled Units:	Unknown
Contained:	N
Water Affected:	None
Spill Type:	Spill
Area Affected:	10 Ft X 20 Ft
Fish Killed:	0
Water Supply Affected:	Not reported
Public Intake:	U
Incident Status:	Not reported

RCRA Listings:

Date Form Received by Agency:	20010314
Handler Name:	D And G Ohc Inc
Handler Address:	501 N WALNUT ST
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND981782311
Contact Name:	ROBERT MCNAMARA
Contact Address:	501 N WALNUT ST
Contact City,State,Zip:	BLOOMINGTON, IN 47401
Contact Telephone:	812-336-5378

D AND G OHC INC (Continued) **1000309123**

Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	501 N WALNUT ST
Mailing City,State,Zip:	BLOOMINGTON, IN 47401
Owner Name:	D And G Ohm Cleaners Inc
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

D AND G OHC INC (Continued) **1000309123**

Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: D AND G OHM CLEANERS INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NAME NOT REPORTED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ADDRESS NOT REPORTED
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998
Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19860909
Handler Name: D AND G OHC INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

D AND G OHC INC (Continued) **1000309123**

Receive Date: 20010314
Handler Name: D AND G OHC INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

D AND G OHC INC (Continued) **1000309123**

Evaluation Action Summary:

Evaluation Date:	20010309
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	LFROS
Evaluation Responsible Sub-Organization:	CM2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110058477269

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER
Registry ID: 110003093223

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000309123
Registry ID:	110003093223
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003093223
Name:	D AND G OHC INC
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47404

DRYCLEANERS 2:

Name:	DOUG'S ONE-HOUR MARTINIZING CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN

D AND G OHC INC (Continued) **1000309123**

Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1982
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	See Ad
Reference ID:	97390
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	DOUG'S ONE-HOUR MARTINIZING CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1977
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	See Ad Classification
Reference ID:	97424
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	DOUG'S ONE HOUR MARTINIZING CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1973
Reference Name:	Indiana Bell Telephone Directory for Bloomington
Reference Notes:	Doug McNamara, 9th & Walnut St,
Reference ID:	97740
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	DOUG MC NAMARA'S DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994

D AND G OHC INC (Continued) **1000309123**

Reference Address:	501 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Laundries
Reference Year:	1993
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	73621
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	DOUG'S 1 HR MARTINIZING
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1988
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	74952
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	DOUG MC NAMARAS CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1991
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	75184
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339

Name:	HOME LAUNDERERS & DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners

D AND G OHC INC (Continued) **1000309123**

Reference Year:	1995
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	75287
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339
Name:	DOUG MC NAMARA'S DRY CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut St
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1993
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	72989
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339
Name:	DOUG MC NAMARAS CLEANERS
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1990
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported
Reference ID:	92827
ADDR ID:	7345
Latitude:	39.1706
Longitude:	-86.5339
Name:	DOUG MC NAMARA ONE HOUR
Last Facility Name:	Home Launderers & Dry Cleaners
Address:	501 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	12/4/2018
Master AI ID:	48994
Reference Address:	501 N Walnut
Reference City:	Bloomington
Cleaner Type:	Cleaners
Reference Year:	1989
Reference Name:	Indiana Business Directory
Reference Notes:	Not reported

D AND G OHC INC (Continued) **1000309123**

Reference ID: 94352
ADDR ID: 7345
Latitude: 39.1706
Longitude: -86.5339

Name: HOME LAUNDERERS & DRY CLEANERS
Last Facility Name: Home Launderers & Dry Cleaners
Address: 501 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 12/4/2018
Master AI ID: 48994
Reference Address: 501 N Walnut St
Reference City: Bloomington
Cleaner Type: Cleaners
Reference Year: 1997
Reference Name: Indiana Business Directory
Reference Notes: Not reported
Reference ID: 72017
ADDR ID: 7345
Latitude: 39.1706
Longitude: -86.5339

Click this hyperlink while viewing on your computer to access
18 additional IN DRYCLN2: record(s) in the EDR Site Report.

IN MANIFEST:
Name: D&G OHC INC
Address: 501 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47403
Year: Not reported
EPA ID: IND981782311
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND981782311
Generator Type: Not reported
Generator Status: 7
Transporter Type: Code no longer valid
Transporter Status: Non Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 501 N WALNUT ST
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47403
Contact Name: GREG MCNAMARA
Contact Telephone: 812-336-5378

D AND G OHC INC (Continued) **1000309123**

Contact Type: Environmental Coordinator

Name: D&G OHC INC
Address: 501 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47403
Year: Not reported
EPA ID: IND981782311
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: D&G OHC INC
Address: 501 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47403
Year: Not reported
EPA ID: IND981782311
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Z111 **BANK ONE** **IN SCP** **S123681822**
NNE **501 N. WALNUT** **N/A**
1/4-1/2 **BLOOMINGTON, IN 99999**
0.359 mi.
1896 ft. **Site 2 of 2 in cluster Z**

Relative:
Higher

Actual:
805 ft.

SCP:
Name: BANK ONE
Address: 501 N. WALNUT
City,State,Zip: BLOOMINGTON, IN 99999
Facility Id: Not reported
Facility Type: Not reported
Site ID: 199509168
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported

BANK ONE (Continued) **S123681822**

Status: NFA
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

AA112 **FORMER SHOWERS ADMINISTRATION BUILDING** **US BROWNFIELDS** **1025961757**
North **501 N. MORTON STREET** **FINDS** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.361 mi.
1905 ft. **Site 1 of 3 in cluster AA**

Relative: **Higher**
Actual: **781 ft.**

US BROWNFIELDS:

Name:	FORMER SHOWERS ADMINISTRATION BUILDING
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-206-033.000-005
Parcel size:	0.57
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission. Redevelopment plans include commercial development of the property by a private developer, with an estimated redevelopment cost of $2.5 million.
Datum:	-
Acres Property ID:	238418
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.57
Past use industrial acreage:	-
Future use greenspace acreage:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Y
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission.
Below Poverty Number:	3708
Below Poverty Percent:	66.99
Meidan Income:	1330
Meidan Income Number:	4450
Meidan Income Percent:	80.4
Vacant Housing Number:	352
Vacant Housing Percent:	12.19
Unemployed Number:	186
Unemployed Percent:	3.36
Name:	FORMER SHOWERS ADMINISTRATION BUILDING
Address:	501 N. MORTON STREET

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-206-033.000-005
Parcel size:	0.57
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission. Redevelopment plans include commercial development of the property by a private developer, with an estimated redevelopment cost of $2.5 million.
Datum:	-
Acres Property ID:	238418
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	20500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	7/20/2020
Ownership Entity:	Government
Completion Date:	9/24/2020
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.57
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Y
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission.
Below Poverty Number:	3708
Below Poverty Percent:	66.99
Meidan Income:	1330
Meidan Income Number:	4450
Meidan Income Percent:	80.4
Vacant Housing Number:	352
Vacant Housing Percent:	12.19
Unemployed Number:	186
Unemployed Percent:	3.36
Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission.

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.

Datum:	-
Acres Property ID:	241118
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	9/3/2019
Ownership Entity:	Government
Completion Date:	10/27/2019
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56

Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241118
IC Data Access:	-
Start Date:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

	eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56
Name:	FORMER SHOWERS ADMINISTRATION BUILDING
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-206-033.000-005
Parcel size:	0.57
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission. Redevelopment plans include commercial development of the property by a private developer, with an estimated redevelopment cost of $2.5 million.
Datum:	-
Acres Property ID:	238418
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	20500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Cooperative Agreement Number:	00E02280
Start Date:	7/20/2020
Ownership Entity:	Government
Completion Date:	9/24/2020
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.57
Past use industrial acreage:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Y
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission.
Below Poverty Number:	3708
Below Poverty Percent:	66.99
Meidan Income:	1330
Meidan Income Number:	4450
Meidan Income Percent:	80.4
Vacant Housing Number:	352
Vacant Housing Percent:	12.19
Unemployed Number:	186
Unemployed Percent:	3.36
Name:	FORMER SHOWERS ADMINISTRATION BUILDING

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-206-033.000-005
Parcel size:	0.57
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission. Redevelopment plans include commercial development of the property by a private developer, with an estimated redevelopment cost of $2.5 million.
Datum:	-
Acres Property ID:	238418
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3151
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	4/10/2019
Ownership Entity:	Government
Completion Date:	6/25/2019
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.57
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Y
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission.
Below Poverty Number:	3708
Below Poverty Percent:	66.99
Meidan Income:	1330
Meidan Income Number:	4450
Meidan Income Percent:	80.4
Vacant Housing Number:	352
Vacant Housing Percent:	12.19
Unemployed Number:	186
Unemployed Percent:	3.36
Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.

Datum:	-
Acres Property ID:	241118
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	28561
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	10/7/2019
Ownership Entity:	Government
Completion Date:	8/14/2020
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56
Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241118
IC Data Access:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	26235
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E02280
Start Date:	11/8/2019
Ownership Entity:	Government
Completion Date:	9/22/2020
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

	of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56
Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241118
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56
Name:	PARKING LOT - TRADES GARAGE
Address:	501 N. MORTON STREET

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-01-36-978-004.000-005
Parcel size:	1.3
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site. Hotspot Removal / Clean-up was facilitated with PM's in IDEM's Solid Waste and Brownfields programs. Total cost has yet to be determined at this time. The former parking lot has been demolished and a new garage & commercial retail space is in the process of being constructed. Final funds leveraged is undetermined until completion. Unable to determine the number of jobs leveraged at this time.
Datum:	-
Acres Property ID:	241118
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E02280
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	-
Photo Available:	-
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	1.3
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is a parking lot located at 501 N. Morton Street in Bloomington, Indiana. The current owner of the Subject Site is the Bloomington Redevelopment Commission. Historically a mirror making facility and warehouse operated on the central and northern portions of the Subject Site; Rails spurs were present on the western and eastern portions of the site. Historically five (5) iron oil ASTs operated on the southern portion of the Subject Site.
Below Poverty Number:	3432
Below Poverty Percent:	64.73
Meidan Income:	1294
Meidan Income Number:	4166
Meidan Income Percent:	78.57
Vacant Housing Number:	335
Vacant Housing Percent:	12.01
Unemployed Number:	189
Unemployed Percent:	3.56

Click this hyperlink while viewing on your computer to access
10 additional US BROWNFIELDS: record(s) in the EDR Site Report.

Name:	FORMER SHOWERS ADMINISTRATION BUILDING
Address:	501 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	53-05-33-206-033.000-005
Parcel size:	0.57
Latitude:	39.1703125
Longitude:	-86.5369739
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	Former Use: The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana.

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission. Redevelopment plans include commercial development of the property by a private developer, with an estimated redevelopment cost of $2.5 million.

Datum:	-
Acres Property ID:	238418
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E02280
Start Date:	9/20/2018
Ownership Entity:	Government
Completion Date:	1/4/2019
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	Y
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.57
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Y
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-

FORMER SHOWERS ADMINISTRATION BUILDING (Continued) **1025961757**

Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Former Showers Brothers Administration Building property is located at 601 N. Morton Street in Bloomington, Indiana. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission and is currently unoccupied. The Subject Site operated historically as an administrative building (Showers Admin Bldg.) and an automotive maintenance garage (Showers Garage) from the early 1900s through the late 1950s for the Showers Brothers Furniture company and subsequent Stork Line Furniture; as a press and publications building for Indiana University from the 1960s until the mid-1990s; and as storage for City of Bloomington Development Commission.
Below Poverty Number:	3708
Below Poverty Percent:	66.99
Meidan Income:	1330
Meidan Income Number:	4450
Meidan Income Percent:	80.4
Vacant Housing Number:	352
Vacant Housing Percent:	12.19
Unemployed Number:	186
Unemployed Percent:	3.36

Click this hyperlink while viewing on your computer to access
10 additional US BROWNFIELDS: record(s) in the EDR Site Report.

FINDS:
Registry ID: 110070789697

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.
Registry ID: 110070570225

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

AA113 **CHARLES ANTHONY WEBB** **IN BROWNFIELDS** **S119776812**
North **501 N MORTON ST STE 100** **IN OISC** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.361 mi.
1905 ft. **Site 2 of 3 in cluster AA**

Relative:
Higher

Actual:
781 ft.

IN BROWNFIELD:

Name:	MORTON STREET PARKING LOT
Address:	501 N MORTON ST
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4190607
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Petroleum Determination Letter 6/27/2019
ERC Not Required:	NR
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

OISC:

Name:	JILL MARIE WATKINS
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	3B-Turf Pest Management
Result:	Pass
Credits Acquired:	0
Credits Required:	20
Credits Needed:	20
Credits Needed By:	12/31/2025
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	Not reported

Name:	ANDREW CHARLES FRENCH
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	3A-Ornamental Pest Management
Result:	Expired
Credits Acquired:	0
Credits Required:	15
Credits Needed:	15
Credits Needed By:	12/31/2017
Meeting ID:	Not reported

CHARLES ANTHONY WEBB (Continued) **S119776812**

Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	afrench@monroe.co.in.us

Name:	STEVEN MICHAEL STANCOMBE
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	RT-Registered Technician
Result:	Pass
Credits Acquired:	0
Credits Required:	8
Credits Needed:	8
Credits Needed By:	12/31/2026
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Registered Technicians
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	mcpr@co.monroe.in.us

Name:	STANLEY M ROBERTSON
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	3B-Turf Pest Management
Result:	Pass
Credits Acquired:	0
Credits Required:	20
Credits Needed:	20
Credits Needed By:	12/31/2026
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported

CHARLES ANTHONY WEBB (Continued) **S119776812**

Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	Not reported

Name:	CHARLES ANTHONY WEBB
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	RT-Registered Technician
Result:	Pass
Credits Acquired:	0
Credits Required:	8
Credits Needed:	8
Credits Needed By:	12/31/2023
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Technician
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	Not reported

Name:	ANDREW CHARLES FRENCH
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	6-Industrial Weed Management
Result:	Pass
Credits Acquired:	0
Credits Required:	15
Credits Needed:	15
Credits Needed By:	12/31/2024
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator

CHARLES ANTHONY WEBB (Continued) **S119776812**

License Expire Date: 12/31/2023
Mailing Address 1: Not reported
Mailing Address 2: Not reported
Mailing City: Not reported
Mailing State: Not reported
Mailing Zip: Not reported
Mailing County: Not reported
Program Email: afrench@monroe.co.in.us

Name: KELLI L WITMER
Secondary Business Name: Not reported
Address: 501 N MORTON ST STE 100
City,State,Zip: BLOOMINGTON, IN 47404
Status: Active
Categories: RT-Registered Technician
Result: Pass
Credits Acquired: 0
Credits Required: 8
Credits Needed: 8
Credits Needed By: 12/31/2026
Meeting ID: Not reported
Date Attended: Not reported
Meeting CAT: Not reported
Meeting Name: Not reported
Course Credits: Not reported
Earned Credits: Not reported
Program Type: Public Technician
License Expire Date: 12/31/2023
Mailing Address 1: Not reported
Mailing Address 2: Not reported
Mailing City: Not reported
Mailing State: Not reported
Mailing Zip: Not reported
Mailing County: Not reported
Program Email: kwitmer@co.monroe.in.us

Name: JILL MARIE WATKINS
Secondary Business Name: Not reported
Address: 501 N MORTON ST STE 100
City,State,Zip: BLOOMINGTON, IN 47404
Status: Active
Categories: 3A-Ornamental Pest Management
Result: Expired
Credits Acquired: 0
Credits Required: 15
Credits Needed: 15
Credits Needed By: 12/31/1999
Meeting ID: Not reported
Date Attended: Not reported
Meeting CAT: Not reported
Meeting Name: Not reported
Course Credits: Not reported
Earned Credits: Not reported
Program Type: Public Applicator
License Expire Date: 12/31/2023
Mailing Address 1: Not reported
Mailing Address 2: Not reported

CHARLES ANTHONY WEBB (Continued) **S119776812**

Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	Not reported

Name:	ANDREW CHARLES FRENCH
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	2-Forest Pest Control
Result:	Pass
Credits Acquired:	0
Credits Required:	10
Credits Needed:	10
Credits Needed By:	12/31/2024
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	afrench@monroe.co.in.us

Name:	ANDREW CHARLES FRENCH
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	3B-Turf Pest Management
Result:	Pass
Credits Acquired:	0
Credits Required:	20
Credits Needed:	20
Credits Needed By:	12/31/2023
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported

CHARLES ANTHONY WEBB (Continued) **S119776812**

Mailing County:	Not reported
Program Email:	afrench@monroe.co.in.us
Name:	ANDREW CHARLES FRENCH
Secondary Business Name:	Not reported
Address:	501 N MORTON ST STE 100
City,State,Zip:	BLOOMINGTON, IN 47404
Status:	Active
Categories:	5-Aquatic Pest Management
Result:	Pass
Credits Acquired:	0
Credits Required:	15
Credits Needed:	15
Credits Needed By:	12/31/2023
Meeting ID:	Not reported
Date Attended:	Not reported
Meeting CAT:	Not reported
Meeting Name:	Not reported
Course Credits:	Not reported
Earned Credits:	Not reported
Program Type:	Public Applicator
License Expire Date:	12/31/2023
Mailing Address 1:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing County:	Not reported
Program Email:	afrench@monroe.co.in.us

AB114 **PEOPLES PARK** **IN SCP** **S123681914**
ENE **501 EAST KIRKWOOD** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47402**
0.372 mi.
1964 ft. **Site 1 of 2 in cluster AB**

Relative:
Lower

Actual:
747 ft.

SCP:

Name:	PEOPLES PARK
Address:	501 EAST KIRKWOOD
City,State,Zip:	BLOOMINGTON, IN 47402
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	200002039
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	Inactive
Media Name:	Soil
Contaminant:	Fuel
Chemical:	Petroleum

AB115 **PEOPLES PARK** **IN SCP** **S118843691**
ENE **501 E KIRKWOOD AVE** **IN DRYCLEANERS** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47402**
0.372 mi.
1964 ft. **Site 2 of 2 in cluster AB**

Relative:
Lower

Actual:
747 ft.

SCP:

Name:	PEOPLES PARK
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47402
Facility Id:	45526
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	49195636
Date:	06/28/2002
Program:	State Cleanup
Document Type:	Monitoring
Size:	5 M
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	PEOPLES PARK
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47402
Facility Id:	45526
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	49165851
Date:	05/01/2002
Program:	State Cleanup
Document Type:	Correspondence
Size:	40 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	PEOPLES PARK
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN 47402
Facility Id:	45526
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	49166274
Date:	01/27/2000
Program:	State Cleanup
Document Type:	Site Characterization
Size:	639 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name: PEOPLES PARK

PEOPLES PARK (Continued) **S118843691**

Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49166499
Date: 08/16/2001
Program: State Cleanup
Document Type: Monitoring
Size: 602 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49155135
Date: 01/28/2002
Program: State Cleanup
Document Type: Monitoring
Size: 521 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49164666
Date: 02/11/2000
Program: State Cleanup
Document Type: Correspondence
Size: 29 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported

PEOPLES PARK (Continued) **S118843691**

Doc Number: 49165850
Date: 12/27/2001
Program: State Cleanup
Document Type: Correspondence
Size: 14 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49165408
Date: 03/05/2001
Program: State Cleanup
Document Type: Site Characterization
Size: 46 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49161752
Date: 12/06/2000
Program: State Cleanup
Document Type: Site Characterization
Size: 510 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49154948
Date: 07/31/2001
Program: State Cleanup
Document Type: Monitoring
Size: 674 K
Status: Not reported

PEOPLES PARK (Continued) **S118843691**

Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49131919
Date: 01/24/2001
Program: State Cleanup
Document Type: Screening/Assessment
Size: 445 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49118098
Date: 10/26/2001
Program: State Cleanup
Document Type: Monitoring
Size: 512 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49119313
Date: 03/30/2001
Program: State Cleanup
Document Type: Correspondence
Size: 42 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE

PEOPLES PARK (Continued) **S118843691**

City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49122357
Date: 11/17/2000
Program: State Cleanup
Document Type: Community Relations
Size: 101 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49120256
Date: 02/20/2002
Program: State Cleanup
Document Type: Monitoring
Size: 7 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49122032
Date: 12/06/2000
Program: State Cleanup
Document Type: Remediation
Size: 6 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49134755

PEOPLES PARK (Continued) **S118843691**

Date: 11/15/2002
Program: State Cleanup
Document Type: Monitoring
Size: 5 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: PEOPLES PARK
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 45526
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 49129227
Date: 02/22/2000
Program: State Cleanup
Document Type: Remediation
Size: 348 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

DRYCLEANERS 2:

Name: SUNSHINE CLEANERS
Last Facility Name: Sunshine Cleaners
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 10/29/2021
Master AI ID: 45526
Reference Address: 501 E Kirkwood Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1938
Reference Name: Caron’s City Directory
Reference Notes: Not reported
Reference ID: 3291
ADDR ID: 7336
Latitude: 39.1667
Longitude: -86.528

Name: SUNSHINE CLEANERS
Last Facility Name: Sunshine Cleaners
Address: 501 E KIRKWOOD AVE
City,State,Zip: BLOOMINGTON, IN
Location Quality: Good
Location Date: 10/29/2021
Master AI ID: 45526
Reference Address: 501 E Kirkwood Ave
Reference City: Bloomington
Cleaner Type: Subtype Not Recorded
Reference Year: 1945
Reference Name: Polk City Directory

PEOPLES PARK (Continued) **S118843691**

Reference Notes:	Stand alone ads(1945-46, 1948)
Reference ID:	3293
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1948
Reference Name:	Polk City Directory
Reference Notes:	Stand alone ads(1945-46, 1948)
Reference ID:	3295
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1950
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3296
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1952
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3297
ADDR ID:	7336

PEOPLES PARK (Continued) **S118843691**

Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1955
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3299
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1958
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3300
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528
Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1960
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3301
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528

PEOPLES PARK (Continued) **S118843691**

Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1963
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3302
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528

Name:	SUNSHINE CLEANERS
Last Facility Name:	Sunshine Cleaners
Address:	501 E KIRKWOOD AVE
City,State,Zip:	BLOOMINGTON, IN
Location Quality:	Good
Location Date:	10/29/2021
Master AI ID:	45526
Reference Address:	501 E Kirkwood Ave
Reference City:	Bloomington
Cleaner Type:	Subtype Not Recorded
Reference Year:	1966
Reference Name:	Polk City Directory
Reference Notes:	Not reported
Reference ID:	3303
ADDR ID:	7336
Latitude:	39.1667
Longitude:	-86.528

Click this hyperlink while viewing on your computer to access additional IN DRYCLN2: detail in the EDR Site Report.

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116 **BLOOMINGTON HOSPITAL** **IN LUST** **1000976127**
SW **601 W 2ND ST** **IN UST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47402**
0.373 mi.
1967 ft.

Relative:
Higher

Actual:
771 ft.

LUST:

Name:	BLOOMINGTON HOSPITAL
Address:	601 W 2ND ST
City,State,Zip:	BLOOMINGTON, IN 47402
Facility ID:	13106
Incident Number:	198909154
Description:	NFA-Unconditional Closure
Priority:	Low

Name:	BLOOMINGTON HOSPITAL
Address:	601 W 2ND ST
City,State,Zip:	BLOOMINGTON, IN 47402
Facility ID:	13106

BLOOMINGTON HOSPITAL (Continued) **1000976127**

Incident Number: 199109541
Description: NFA-Unconditional Closure
Priority: Low

UST:
Name: BLOOMINGTON HOSPITAL
Address: 601 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility ID: 13106
Owner Id: 3781
Company Name: Bloomington Hospital
Mailing Address: 605 W 2nd St
Mailing Address 2: Not reported
Mailing City,St,Zip: Bloomington, IN 47401

Tank Number: 1
AI ID: 40667
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 20000
Substance Desc: Diesel
Closed Date: 09/01/1991

Name: BLOOMINGTON HOSPITAL
Address: 601 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47402

Tank Number: 2
AI ID: 40667
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 1000
Substance Desc: Diesel
Closed Date: 09/01/1991

Name: BLOOMINGTON HOSPITAL
Address: 601 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47402

Tank Number: 3
AI ID: 40667
TRACS Tank Number: 3C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 500
Substance Desc: Diesel
Closed Date: 09/01/1991

Name: BLOOMINGTON HOSPITAL
Address: 601 W 2ND ST
City,State,Zip: BLOOMINGTON, IN 47402

Tank Number: 4
AI ID: 40667
TRACS Tank Number: 4C1

BLOOMINGTON HOSPITAL (Continued) **1000976127**

Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	1000
Substance Desc:	Diesel
Closed Date:	09/01/1991

117
NNW
1/4-1/2
0.389 mi.
2052 ft.

BEASLEY PRODUCE CO INC
501 NORTH ROGERS ST
BLOOMINGTON, IN 47401

IN LUST **U003141996**
IN UST **N/A**

Relative:
Higher

Actual:
782 ft.

LUST:

Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	16741
Incident Number:	199105530
Description:	NFA-Unconditional Closure
Priority:	Low

UST:

Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	16741
Owner Id:	9192
Company Name:	Beasley Produce Inc
Mailing Address:	Po Box 1104
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47402
Tank Number:	1
AI ID:	41346
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	4000
Substance Desc:	Gasoline
Closed Date:	05/06/1991
Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	2
AI ID:	41346
TRACS Tank Number:	2C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	4000
Substance Desc:	Gasoline
Closed Date:	05/06/1991
Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401

BEASLEY PRODUCE CO INC (Continued) **U003141996**

Tank Number:	3
AI ID:	41346
TRACS Tank Number:	3C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	Not reported
Substance Desc:	Other
Closed Date:	05/06/1991
Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	4
AI ID:	41346
TRACS Tank Number:	4C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	Not reported
Substance Desc:	Other
Closed Date:	05/06/1991
Name:	BEASLEY PRODUCE CO INC
Address:	501 NORTH ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	5
AI ID:	41346
TRACS Tank Number:	5C1
Tank Status:	**Permanently Out of Service**
Install Date:	Not reported
Tank Capacity:	Not reported
Substance Desc:	Other
Closed Date:	05/06/1991

118
SSW
1/4-1/2
0.398 mi.
2103 ft.

CENTERSTONE OF INDIANA PROPERTY
400 W 1ST ST
BLOOMINGTON, IN 47403

IN BROWNFIELDS **S128673010**
N/A

Relative:
Higher

Actual:
753 ft.

IN BROWNFIELD:

Name:	CENTERSTONE OF INDIANA PROPERTY
Address:	400 W 1ST ST
City,State,Zip:	BLOOMINGTON, IN 47403
Facility ID:	4220405
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Not reported
ERC Not Required:	Not reported
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

AA119 **MORTON PARKING LOT** **US BROWNFIELDS** **1019910880**
North **555 N. MORTON STREET** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.409 mi.
2160 ft. **Site 3 of 3 in cluster AA**

Relative:
Higher

Actual:
786 ft.

US BROWNFIELDS:

Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y

MORTON PARKING LOT (Continued) **1019910880**

Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-

MORTON PARKING LOT (Continued) **1019910880**

Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11
Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number

MORTON PARKING LOT (Continued) **1019910880**

Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E01217
Start Date:	1/29/2014
Ownership Entity:	Private
Completion Date:	3/31/2014
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-

MORTON PARKING LOT (Continued) **1019910880**

Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-

MORTON PARKING LOT (Continued) **1019910880**

No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11
Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984

MORTON PARKING LOT (Continued) **1019910880**

IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	2200
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-

MORTON PARKING LOT (Continued) **1019910880**

PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse

MORTON PARKING LOT (Continued) **1019910880**

until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present

Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11

Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	7200
Redev. Funding Source:	Private investor
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-

MORTON PARKING LOT (Continued) **1019910880**

Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	-

MORTON PARKING LOT (Continued) **1019910880**

Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177

MORTON PARKING LOT (Continued) **1019910880**

Unemployed Percent:	3.11
Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	9200
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-

MORTON PARKING LOT (Continued) **1019910880**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-

MORTON PARKING LOT (Continued) **1019910880**

No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11

Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street

MORTON PARKING LOT (Continued) **1019910880**

Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present

Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y

MORTON PARKING LOT (Continued) **1019910880**

Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-

MORTON PARKING LOT (Continued) **1019910880**

SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11

Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-

MORTON PARKING LOT (Continued) **1019910880**

Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	52575
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-

MORTON PARKING LOT (Continued) **1019910880**

Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was

MORTON PARKING LOT (Continued) **1019910880**

obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present

Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11
Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	66969
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-

MORTON PARKING LOT (Continued) **1019910880**

Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85

MORTON PARKING LOT (Continued) **1019910880**

Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11
Name:	MORTON PARKING LOT

MORTON PARKING LOT (Continued) **1019910880**

Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	12479
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	9/8/2014
Ownership Entity:	Private
Completion Date:	1/22/2015
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-

MORTON PARKING LOT (Continued) **1019910880**

IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-

MORTON PARKING LOT (Continued) **1019910880**

SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11
Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998.

MORTON PARKING LOT (Continued) **1019910880**

Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present

Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	10465
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	3/18/2014
Ownership Entity:	Private
Completion Date:	8/30/2014
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-

MORTON PARKING LOT (Continued) **1019910880**

No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-

MORTON PARKING LOT (Continued) **1019910880**

Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11

Click this hyperlink while viewing on your computer to access
1 additional US BROWNFIELDS: record(s) in the EDR Site Report.

Name:	MORTON PARKING LOT
Address:	555 N. MORTON STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	0.85
Latitude:	39.171378
Longitude:	-86.536608
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present
Datum:	North American Datum of 1983
Acres Property ID:	171984
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-

MORTON PARKING LOT (Continued) **1019910880**

Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	704
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	5/4/2015
Ownership Entity:	Private
Completion Date:	6/12/2015
Current Owner:	Morton Street Properties, LLC
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-

MORTON PARKING LOT (Continued) **1019910880**

Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	Y
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	0.85
Future use greenspace acreage:	0.85
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The Subject Site is currently owned by Morton Street Properties LLC. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959, a university warehouse until 1966 and a vacant lot until at least 1998. Sometime between 1998 and 2005, the property was redeveloped as a commercial parking lot. The following general historical chain of ownership information was

MORTON PARKING LOT (Continued) **1019910880**

obtained from internet sources: Name Years Owned Showers Bros. Furniture Company Unknown 1955 Stork Line Furniture Co. of Chicago 1955 1959 Indiana University 1959 1999 Hirons Investments, LLC 1999 2008 Morton Street Properties, LLC 2008 present

Below Poverty Number:	3864
Below Poverty Percent:	67.86
Meidan Income:	2944
Meidan Income Number:	4637
Meidan Income Percent:	81.44
Vacant Housing Number:	341
Vacant Housing Percent:	11.61
Unemployed Number:	177
Unemployed Percent:	3.11

Click this hyperlink while viewing on your computer to access
1 additional US BROWNFIELDS: record(s) in the EDR Site Report.

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120 North 1/4-1/2 0.416 mi. 2199 ft.

THE FARMER HOUSE MUSEUM PROPERTY
531 N COLLEGE AVE
BLOOMINGTON, IN 47404

IN SCP **S116674537**
IN SPILLS **N/A**

Relative: Higher

Actual: 796 ft.

SCP:

Name:	THE FARMER HOUSE MUSEUM PROPERTY
Address:	531 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 474043830
Facility Id:	107723
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	80054697
Date:	02/05/2015
Program:	State Cleanup
Document Type:	Site Closure
Size:	283 K
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

Name:	THE FARMER HOUSE MUSEUM PROPERTY
Address:	531 N COLLEGE AVE
City,State,Zip:	BLOOMINGTON, IN 474043830
Facility Id:	107723
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	69748667
Date:	01/09/2014
Program:	State Cleanup
Document Type:	Screening/Assessment
Size:	2 M
Status:	Not reported
Media Name:	Not reported
Contaminant:	Not reported
Chemical:	Not reported

THE FARMER HOUSE MUSEUM PROPERTY (Continued) **S116674537**

Name: THE FARMER HOUSE MUSEUM PROPERTY
Address: 531 N COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 474043830
Facility Id: 107723
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 69724668
Date: 02/28/2014
Program: State Cleanup
Document Type: Site Closure
Size: 44 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

SPILL:
Name: Not reported
Address: 531 N COLLEGE AVE BLOOMINGTON, IN 47404
City,State,Zip: BLOOMINGTON, IN 47401
Facility ID: 43816
Incident Date: 01/07/2014
Report Date: 02/26/2014
Material: Diesel
Spill Source: Not reported
Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: Not reported
Spilled Units: Not reported
Contained: Not reported
Water Affected: Not reported
Spill Type: Emergency Response-Other
Area Affected: Not reported
Fish Killed: Not reported
Water Supply Affected: Not reported
Public Intake: Not reported
Incident Status: Closed

121
ENE
1/4-1/2
0.419 mi.
2211 ft.

INDIANA UNIVERSITY POPLARS BUILDING **IN LUST** **U004145111**
DUNN ST & 7TH ST **IN UST** **N/A**
BLOOMINGTON, IN 47408

Relative:
Higher

Actual:
757 ft.

LUST:
Name: INDIANA UNIVERSITY POPLARS BUILDING
Address: DUNN ST & 7TH ST
City,State,Zip: BLOOMINGTON, IN 47408
Facility ID: 4103
Incident Number: 199811539
Description: NFA-Unconditional Closure
Priority: Low

UST:
Name: INDIANA UNIVERSITY POPLARS BUILDING
Address: DUNN ST & 7TH ST

INDIANA UNIVERSITY POPLARS BUILDING (Continued) **U004145111**

City,State,Zip:	BLOOMINGTON, IN 47408
Facility ID:	4103
Owner Id:	4201
Company Name:	Indiana Univ Tax Dept Services
Mailing Address:	1024 E 3rd St, Room 132
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Bloomington, IN 47405
Tank Number:	1
AI ID:	41248
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1972
Tank Capacity:	1000
Substance Desc:	Diesel
Closed Date:	11/13/1998

---

122 South 1/4-1/2 0.421 mi. 2223 ft. **MONROE OIL COMPANY BLOOMINGTON** **IN AUL** **S106955611**
229 W 1ST ST **IN SCP** **N/A**
BLOOMINGTON, IN 47402 **IN BROWNFIELDS**
IN SPILLS
IN MANIFEST

Relative: Lower

Actual: 742 ft.

AUL:

Name:	MONROE OIL COMPANY BLOOMINGTON
Address:	229 W 1ST ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	4121209
Program Area:	Brownfields
Affected Media:	Ground Water; Soil Gas (Vapor); Subsurface Soil; Surface Soil
Date Ic Recorded:	05/07/2015
Description:	BFF No Further Action 5/6/2015
Control Method A:	Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Petroleum; SVOCs - Semi Volatile Organic Compounds
Comments A:	Not reported
Master AI ID:	41828
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=80036220

SCP:

Name:	MONROE OIL COMPANY BLOOMINGTON
Address:	229 W 1ST ST
City,State,Zip:	BLOOMINGTON, IN 47402
Facility Id:	41828
Facility Type:	Not reported
Site ID:	Not reported
Indicator Name:	Not reported
Doc Number:	68918043
Date:	01/20/2004
Program:	State Cleanup
Document Type:	Site Characterization
Size:	4 M
Status:	Not reported

MONROE OIL COMPANY BLOOMINGTON (Continued) **S106955611**

Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51618456
Date: 12/01/2003
Program: State Cleanup
Document Type: Correspondence
Size: 32 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51559209
Date: 06/01/2003
Program: State Cleanup
Document Type: Emergency Response
Size: 86 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51578099
Date: 04/01/2003
Program: State Cleanup
Document Type: Lab Data
Size: 199 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST

MONROE OIL COMPANY BLOOMINGTON (Continued) **S106955611**

City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51581135
Date: 09/02/2002
Program: State Cleanup
Document Type: Site Characterization
Size: 2 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51568620
Date: 04/01/2003
Program: State Cleanup
Document Type: Lab Data
Size: 591 K
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51551193
Date: 07/15/2003
Program: State Cleanup
Document Type: Correspondence
Size: 5 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY BLOOMINGTON
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: 41828
Facility Type: Not reported
Site ID: Not reported
Indicator Name: Not reported
Doc Number: 51527405

MONROE OIL COMPANY BLOOMINGTON (Continued) **S106955611**

Date: 06/10/2003
Program: State Cleanup
Document Type: Emergency Response
Size: 2 M
Status: Not reported
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

Name: MONROE OIL COMPANY
Address: 229 W 1ST STREET
City,State,Zip: BLOOMINGTON, IN 47402
Facility Id: Not reported
Facility Type: Not reported
Site ID: 200306062
Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: NFA
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

IN BROWNFIELD:
Name: MONROE OIL CO
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN 47402
Facility ID: 4121209
Project Manager: John Morris
AI Id: 41828
Financial Assistance: Not reported
Other Assistance: No Further Action Letter 5/6/2015
ERC Not Required: Yes
Land Use Restriction: No residential or water well use (SVOCs in soil and VOCs, SVOCs in groundwater)
Recordation Date or Letter: 5/7/2015

SPILL:
Name: Not reported
Address: 229 W 1ST ST
City,State,Zip: BLOOMINGTON, IN
Facility ID: 200306062
Incident Date: 06/10/2003
Report Date: 06/10/2003
Material: diesel
Spill Source: Commercial
Recovered Amount: Not reported
Recovered Units: Not reported
Spilled Amount: 40
Spilled Units: Gallons
Contained: Not reported
Water Affected: none
Spill Type: Spill

MONROE OIL COMPANY BLOOMINGTON (Continued) **S106955611**

Area Affected:	Not reported
Fish Killed:	Not reported
Water Supply Affected:	Not reported
Public Intake:	N
Incident Status:	Not reported

IN MANIFEST:

Name:	BROWNFIELDS IV LLC
Address:	229 W 1ST ST
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2014
EPA ID:	INR000137703
Tons Generated:	0.00
Tons Shipped OffSite:	0.41
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

Name:	BROWNFIELDS IV LLC
Address:	229 W 1ST ST
City,State,Zip:	BLOOMINGTON, IN 47403
Year:	2014
EPA ID:	INR000137703
Tons Generated:	0.00
Tons Shipped OffSite:	0.43
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported
Waste Code:	Not reported
Rejected:	Not reported
Returned:	Not reported

AC123 **CIRCLE K 0033** **IN LUST** **U004313639**
East **527 E 3RD ST** **IN UST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47401**
0.421 mi.
2223 ft. **Site 1 of 2 in cluster AC**

Relative:
Higher

Actual:
782 ft.

LUST:

Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	1028
Incident Number:	199007534
Description:	NFA-Conditional Closure
Priority:	High

CIRCLE K 0033 (Continued) **U004313639**

UST:

Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	1028
Owner Id:	19740
Company Name:	Mac's Convenience Stores LLC
Mailing Address:	4080 W Jonathan Moore Pike
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Columbus, IN 47201
Tank Number:	1
AI ID:	40519
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1971
Tank Capacity:	8000
Substance Desc:	Gasoline
Closed Date:	01/07/2003
Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	2
AI ID:	40519
TRACS Tank Number:	2C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1960
Tank Capacity:	6000
Substance Desc:	Gasoline
Closed Date:	01/08/2003
Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	3
AI ID:	40519
TRACS Tank Number:	3C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1960
Tank Capacity:	6000
Substance Desc:	Gasoline
Closed Date:	01/08/2003
Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN 47401
Tank Number:	4
AI ID:	40519
TRACS Tank Number:	4C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1960
Tank Capacity:	6000
Substance Desc:	Gasoline

CIRCLE K 0033 (Continued) **U004313639**

Closed Date: 01/09/2003

Name: CIRCLE K 0033
Address: 527 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 5
AI ID: 40519
TRACS Tank Number: 5C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1985
Tank Capacity: 550
Substance Desc: Used Oil
Closed Date: 07/01/1992

Name: CIRCLE K 0033
Address: 527 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 5
AI ID: 40519
TRACS Tank Number: 5C1
Tank Status: **Permanently Out of Service**
Install Date: Not reported
Tank Capacity: 550
Substance Desc: Used Oil
Closed Date: Not reported

Name: CIRCLE K 0033
Address: 527 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 6
AI ID: 40519
TRACS Tank Number: 6C1
Tank Status: **Currently in use**
Install Date: 01/01/2003
Tank Capacity: 12000
Substance Desc: Gasoline
Closed Date: Not reported

Name: CIRCLE K 0033
Address: 527 E 3RD ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 7
AI ID: 40519
TRACS Tank Number: 7C1
Tank Status: **Currently in use**
Install Date: 01/01/2003
Tank Capacity: 8000
Substance Desc: Gasoline
Closed Date: Not reported

AC124 **CIRCLE K 0033** **IN AUL** **U004020296**
East **527 E 3RD ST** **N/A**
1/4-1/2 **BLOOMINGTON, IN**
0.421 mi.
2223 ft. **Site 2 of 2 in cluster AC**

Relative: **Higher**

Actual: **782 ft.**

AUL:

Name:	CIRCLE K 0033
Address:	527 E 3RD ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	1028
Program Area:	UST
Affected Media:	Ground Water; Subsurface Soil
Date Ic Recorded:	06/13/2011
Description:	LUS No Further Action 7/18/2011
Control Method A:	Ground Water Use Restriction; Residential Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Petroleum; TPH - Total Petroleum Hydrocarbons
Comments A:	Not reported
Master AI ID:	40519
IC ID:	302
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=62629977

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125 **MCGLOTHLIN** **IN AUL** **S126252184**
South **600 S. WALNUT ST.** **IN SCP** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47401**
0.426 mi.
2248 ft.

Relative: **Lower**

Actual: **728 ft.**

AUL:

Name:	MCGLOTHLIN
Address:	600 S WALNUT ST
City,State,Zip:	BLOOMINGTON, IN
IC TYPE:	Environmental Restrictive Covenant
Facility Id:	6181201
Program Area:	Voluntary Remediation Program
Affected Media:	Ground Water
Date Ic Recorded:	12/20/2019
Description:	Covenant Not to Sue
Control Method A:	Ground Water Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Petroleum
Comments A:	Not reported
Master AI ID:	118174
IC ID:	1
Terminated Date:	Not reported
VFC URL:	https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=82941976

SCP:

Name:	MCGLOTHLIN
Address:	600 S. WALNUT ST.
City,State,Zip:	BLOOMINGTON, IN 47401
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	0000670

MCGLOTHLIN (Continued) **S126252184**

Indicator Name: Not reported
Doc Number: Not reported
Date: Not reported
Program: Not reported
Document Type: Not reported
Size: Not reported
Status: REF
Media Name: Not reported
Contaminant: Not reported
Chemical: Not reported

AD126 **INDIANA UNIVERSITY SHOWERS WAREHOUSE** **CORRACTS** **1000703826**
North **601 N MORTON** **RCRA-TSDF** **IND000815423**
1/4-1/2 **BLOOMINGTON, IN 47404** **RCRA NonGen / NLR**
0.438 mi. **2020 COR ACTION**
2313 ft. **Site 1 of 2 in cluster AD** **PADS**

Relative: **Higher**
Actual: **790 ft.**

CORRACTS:

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: PCB CONTAINER STORAG
Corrective Action: MISC. WORKPLAN SUBMITTED
Actual Date: 19920922
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: RADIOACTIVE CONT/STO
Corrective Action: MISC. WORKPLAN SUBMITTED
Actual Date: 19920922
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: ENTIRE FACILITY
Corrective Action: RFA COMPLETED
Actual Date: 19900209
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Area Name: ENTIRE FACILITY
Corrective Action: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Actual Date: 19900209
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: ENTIRE FACILITY
Corrective Action: CA PRIORITIZATION-MEDIUM CA PRIORITY
Actual Date: 19910927
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: PCB CONTAINER STORAG
Corrective Action: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL
Actual Date: 19900928
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: RADIOACTIVE CONT/STO
Corrective Action: RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL
Actual Date: 19900928
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: PCB CONTAINER STORAG
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19900928
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: RADIOACTIVE CONT/STO
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 19900928
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: PCB CONTAINER STORAG
Corrective Action: INVESTIGATION SUPPLEMENTAL INFO REQ BY AGENCY
Actual Date: 19910911
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Address: 601 N MORTON
Address 2: Not reported
EPA ID: IND000815423
Area Name: RADIOACTIVE CONT/STO
Corrective Action: INVESTIGATION SUPPLEMENTAL INFO REQ BY AGENCY
Actual Date: 19910911
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Y
Surface Water Release Indicator: Not reported

Click this hyperlink while viewing on your computer to access
16 additional CORRACTS: record(s) in the EDR Site Report.

RCRA TSDF:
Treatment Storage and Disposal Type: Storage
Full Enforcement Universe: Not reported
Corrective Action Workload Universe: No
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Storage
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
Operating TSDF Universe: Not reported
Commercial TSD Indicator: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

RCRA Listings:

Date Form Received by Agency:	19960104
Handler Name:	Indiana University Showers Warehouse
Handler Address:	601 N MORTON
Handler City,State,Zip:	BLOOMINGTON, IN 47404
EPA ID:	IND000815423
Contact Name:	ROBERT WEBB
Contact Address:	601 N MORTON
Contact City,State,Zip:	BLOOMINGTON, IN 47404
Contact Telephone:	812-337-6311
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	601 N MORTON
Mailing City,State,Zip:	BLOOMINGTON, IN 47404
Owner Name:	The Trustee Of Indiana University
Owner Type:	State
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	Yes
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	Yes
Corrective Action Priority Ranking:	Medium
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	P010
Waste Description:	ARSENIC ACID H3ASO4
Waste Code:	P012
Waste Description:	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE
Waste Code:	P016
Waste Description:	DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-
Waste Code:	P022
Waste Description:	CARBON DISULFIDE
Waste Code:	P030
Waste Description:	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
Waste Code:	P053
Waste Description:	Not Defined
Waste Code:	P054
Waste Description:	AZIRIDINE (OR) ETHYLENEIMINE
Waste Code:	P087
Waste Description:	OSMIUM OXIDE OSO4, (T-4)- (OR) OSMIUM TETROXIDE
Waste Code:	P098
Waste Description:	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code:	P105

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Waste Description: SODIUM AZIDE

Waste Code: P106
Waste Description: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Waste Code: P116
Waste Description: HYDRAZINECARBOTHIOAMIDE (OR) THIOSEMICARBAZIDE

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: THE TRUSTEE OF INDIANA UNIVERSITY
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: BRYAN ADMINISTRATION BLDG IU
Owner/Operator City,State,Zip: CITY NOT REPORTED, IN 99998
Owner/Operator Telephone: 812-337-7618
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THE TRUSTEE OF INDIANA UNIVERSITY
Legal Status: State
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: BRYAN ADMINISTRATION BLDG IU
Owner/Operator City,State,Zip: BLOOMINGTON, IN 47404
Owner/Operator Telephone: 812-337-7618
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19801117
Handler Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940906
Handler Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960104
Handler Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900301
Handler Name: INDIANA UNIVERSITY--SHOWERS WHS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920214
Handler Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940221
Handler Name: INDIANA UNIVERSITY SHOWERS WAREHOUSE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960220

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Handler Name: INDIANA UNIV. SHOWERS WAREHOUSE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 61131
NAICS Description: COLLEGES, UNIVERSITIES, AND PROFESSIONAL SCHOOLS

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	19930513
Actual Return to Compliance Date:	19940525
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19880726
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19890718
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19930513
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R5RG
Evaluation Responsible Sub-Organization: RE
Actual Return to Compliance Date: 19940525
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Evaluation Date:	19910207
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950822
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	LTRIA
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950412
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	E2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19900130
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920916
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	CORRECTIVE ACTION COMPLIANCE EVALUATION
Evaluation Responsible Person Identifier:	RWILS

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930920
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	MHERD
Evaluation Responsible Sub-Organization:	CM
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940525
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	RE
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960801
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R5HDC
Evaluation Responsible Sub-Organization:	II
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920325
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	RE
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

Request Agency: Not reported
Former Citation: Not reported

INDIANA UNIVERSITY SHOWERS WAREHOUSE (Continued) **1000703826**

2020 COR ACTION:
EPA ID: IND000815423
Region: 5
Action: Remedy Construction

PADS:

Name:	INDIANA UNIV SHOWERS WHSE
Address:	11TH ST BETWEEN MORTON & RODGERS
Address 2:	Not reported
City,State,Zip:	BLOOMINGTON, IN 47405
EDR ID:	1000703826
EPAID:	IND000815423
Region:	05
Generator:	Y
Storer:	N
Disposer:	N
Transporter:	N
Smelter:	N
Research Facility:	N
Mailing Address:	ENV HLTH & SFTY 840 SR 46 BYPASS
Mailing Address 2:	Not reported
Mailing City:	BLOOMINGTON
Mailing State:	IN
Mailing Zip:	47405
Mailing Country:	US
Owner Name:	INDIANA UNIVERSITY TRUSTEES OF
Certification Date:	03/09/1990
Contact Name:	DAN DERHEIMER
Contact Title:	Not reported
Contact Telephone:	812-855-3234
Contact Text:	Not reported
Contact Email:	Not reported

AD127 **SHOWERS ADMINISTRATION BUILDING** **IN BROWNFIELDS** **S123491568**
North **601 N MORTON ST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47406**
0.438 mi.
2313 ft. **Site 2 of 2 in cluster AD**

Relative:
Higher

Actual:
790 ft.

IN BROWNFIELD:

Name:	SHOWERS ADMINISTRATION BUILDING
Address:	601 N MORTON ST
City,State,Zip:	BLOOMINGTON, IN 47406
Facility ID:	4180903
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Not reported
ERC Not Required:	Not reported
Land Use Restriction:	Not reported
Recordation Date or Letter:	Not reported

128
East
1/4-1/2
0.443 mi.
2341 ft.

INDIANA UNIVERSITY MUSICAL ARTS CENTER
107 S INDIANA AVE
BLOOMINGTON, IN 46405

IN SCP **S123682013**
N/A

Relative:
Higher

Actual:
760 ft.

SCP:

Name:	INDIANA UNIVERSITY MUSICAL ARTS CENTER
Address:	107 S INDIANA AVE
City,State,Zip:	BLOOMINGTON, IN 46405
Facility Id:	Not reported
Facility Type:	Not reported
Site ID:	200203196
Indicator Name:	Not reported
Doc Number:	Not reported
Date:	Not reported
Program:	Not reported
Document Type:	Not reported
Size:	Not reported
Status:	Inactive
Media Name:	Surface water
Contaminant:	Petroleum
Chemical:	Petroleum

129
NNE
1/4-1/2
0.452 mi.
2384 ft.

SHELL DEALER BLOOMINGTON N WALNUT ST
602 N WALNUT ST
BLOOMINGTON, IN 47401

IN LUST **U004002582**
IN UST **N/A**

Relative:
Higher

Actual:
821 ft.

LUST:

Name:	SHELL DEALER BLOOMINGTON N WALNUT ST
Address:	602 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	92
Incident Number:	200002519
Description:	NFA-Unconditional Closure
Priority:	Medium

UST:

Name:	SHELL DEALER BLOOMINGTON N WALNUT ST
Address:	602 N WALNUT ST
City,State,Zip:	BLOOMINGTON, IN 47401
Facility ID:	92
Owner Id:	228
Company Name:	Equilon Enterprises
Mailing Address:	11057 Allisonville Rd
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Fishers, IN 46038
Tank Number:	1
AI ID:	45435
TRACS Tank Number:	1C1
Tank Status:	**Permanently Out of Service**
Install Date:	01/01/1985
Tank Capacity:	9728
Substance Desc:	Gasoline
Closed Date:	02/25/2000

SHELL DEALER BLOOMINGTON N WALNUT ST (Continued) **U004002582**

Name: SHELL DEALER BLOOMINGTON N WALNUT ST
Address: 602 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 2
AI ID: 45435
TRACS Tank Number: 2C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1985
Tank Capacity: 9728
Substance Desc: Gasoline
Closed Date: 02/25/2000

Name: SHELL DEALER BLOOMINGTON N WALNUT ST
Address: 602 N WALNUT ST
City,State,Zip: BLOOMINGTON, IN 47401

Tank Number: 3
AI ID: 45435
TRACS Tank Number: 3C1
Tank Status: **Permanently Out of Service**
Install Date: 01/01/1985
Tank Capacity: 9728
Substance Desc: Gasoline
Closed Date: 02/25/2000

AE130 **OLD SIRA OFFICE BUILDING** **IN AUL** **S105702668**
South **660 S COLLEGE AVE** **IN BROWNFIELDS** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47402**
0.460 mi.
2429 ft. **Site 1 of 2 in cluster AE**

Relative: **Lower**
Actual: **733 ft.**

AUL:
Name: OLD SIRA OFFICE BUILDING
Address: 660 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN
IC TYPE: Environmental Restrictive Covenant
Facility Id: 4020024
Program Area: Brownfields
Affected Media: Ground Water; Subsurface Soil; Surface Soil
Date Ic Recorded: 03/23/2017
Description: BF Comfort Letter 3/26/2004
Control Method A: Ground Water Use Restriction; Other Restriction (Specify); Residential Use Restriction
Coverage A: Entire Property; Portion of Property
Chemicals Of Concern A: PAH - Polynuclear Aromatic Hydrocarbons; Petroleum; TPH - Total Petroleum Hydrocarbons
Comments A: Not reported
Master AI ID: 46899
IC ID: 316
Terminated Date: Not reported
VFC URL: https://ecm.idem.in.gov/cs/idcplg?IdcService=DOC_INFO_BY_NAME&coreContentOnly=1&dDocName=80438881

IN BROWNFIELD:
Name: OLD SIRA OFFICE BUILDING
Address: 660 S COLLEGE AVE

OLD SIRA OFFICE BUILDING (Continued) **S105702668**

City,State,Zip:	BLOOMINGTON, IN 47402
Facility ID:	4020024
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Comment Letter 3/10/2017 Comment Letter (3) 12/5/2016 Comfort Letter 3/26/2004
ERC Not Required:	Yes
Land Use Restriction:	No residential, water wells, excavation in the affected area (TPH in soils, SVOCs in groundwater)
Recordation Date or Letter:	6/11/2004 ERC Mod 3/23/17

131
NW
1/4-1/2
0.464 mi.
2448 ft.

AURORA ALTERNATIVE HIGH SCHOOL ECA **IN SWRCY** **S109949355**
524 N FAIRVIEW ST. **N/A**
BLOOMINGTON, IN 47404

Relative:
Higher

Actual:
811 ft.

SWRCY:

Name:	AURORA ALTERNATIVE HIGH SCHOOL ECA
Address:	524 N FAIRVIEW ST.
City,State,Zip:	BLOOMINGTON, IN 47404
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Newspaper, Magazines, Mixed Residential
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

AF132 **FORMER IU FOOD STORAGE BUILDING** **US BROWNFIELDS** **1019910802**
NNW **600 NORTH ROGERS STREET** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.470 mi.
2484 ft. **Site 1 of 3 in cluster AF**

Relative:
Higher

Actual:
793 ft.

US BROWNFIELDS:

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E01217
Start Date:	1/29/2014
Ownership Entity:	Government
Completion Date:	3/6/2014
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06
Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	13464
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	9/8/2014
Ownership Entity:	Government
Completion Date:	1/22/2015
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 -

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)

Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	21730
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	3/18/2014
Ownership Entity:	Government
Completion Date:	8/30/2014
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)

Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Assessment Funding Source:	-
Redevelopment Funding:	52575
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010.

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

	(online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06
Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Unemployed Percent:	4.06
Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	7200
Redev. Funding Source:	Private investor
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06
Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	2200
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)

Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	66969
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06
Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	20000000
Redev. Funding Source:	Private investor
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)

Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Click this hyperlink while viewing on your computer to access
3 additional US BROWNFIELDS: record(s) in the EDR Site Report.

Name:	FORMER IU FOOD STORAGE BUILDING
Address:	600 NORTH ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	4.1
Latitude:	39.1719933
Longitude:	-86.538578
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010. (online source -- https://bloomington.in.gov/media/media/ application/pdf/5461.pdf)
Datum:	North American Datum of 1983
Acres Property ID:	171345
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	704

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	5/4/2015
Ownership Entity:	Government
Completion Date:	6/12/2015
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	4.1
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	4.1
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The following general historical chain of ownership information was obtained: Name Years Owned Showers Bros. Furniture Company Unknown - 1955 Stork Line Furniture Co. of Chicago 1955 - 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present The Showers Bros. Furniture Company factory operated on the Subject Site from approximately 1913 through 1955, when it was sold to Storkline Furniture Company of Chicago. It operated several more years until approximately 1958 and was closed. Indiana University purchased the property in 1959, using the buildings for storage until they were destroyed by fires in 1966. In 1971, IU erected the Food Storage Building where it operated until 2010.

FORMER IU FOOD STORAGE BUILDING (Continued) **1019910802**

(online source -- https://bloomington.in.gov/media/media/application/pdf/5461.pdf)

Below Poverty Number:	2995
Below Poverty Percent:	59.84
Meidan Income:	2466
Meidan Income Number:	3803
Meidan Income Percent:	75.98
Vacant Housing Number:	301
Vacant Housing Percent:	11.77
Unemployed Number:	203
Unemployed Percent:	4.06

Click this hyperlink while viewing on your computer to access
3 additional US BROWNFIELDS: record(s) in the EDR Site Report.

AF133 **VACANT LOT** **US BROWNFIELDS** **1019910944**
NNW **N. ROGERS STREET** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.485 mi.
2560 ft. **Site 2 of 3 in cluster AF**

Relative: **Higher**
Actual: **796 ft.**
Client Plot

US BROWNFIELDS:

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	3500
Assessment Funding Source:	EPA

VACANT LOT (Continued) **1019910944**

Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E01217
Start Date:	1/29/2014
Ownership Entity:	Government
Completion Date:	4/4/2014
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-

VACANT LOT (Continued) **1019910944**

VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 -

VACANT LOT (Continued) **1019910944**

	Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41
Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	52575
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217

VACANT LOT (Continued) **1019910944**

Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-

VACANT LOT (Continued) **1019910944**

Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

VACANT LOT (Continued) **1019910944**

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	250000
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y

VACANT LOT (Continued) **1019910944**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-

VACANT LOT (Continued) **1019910944**

No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number

VACANT LOT (Continued) **1019910944**

Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	10234
Assessment Funding Source:	EPA
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	9/8/2014
Ownership Entity:	Government
Completion Date:	1/22/2015
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-

VACANT LOT (Continued) **1019910944**

Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-

VACANT LOT (Continued) **1019910944**

Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41
Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately

VACANT LOT (Continued) **1019910944**

1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present

Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	2700
Assessment Funding Source:	PEDCOR
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	Private/Other Funding
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	8/28/2016
Ownership Entity:	Government
Completion Date:	9/15/2016
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-

VACANT LOT (Continued) **1019910944**

Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-

VACANT LOT (Continued) **1019910944**

Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41
Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-

VACANT LOT (Continued) **1019910944**

Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	7200
Redev. Funding Source:	Private investor
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-

VACANT LOT (Continued) **1019910944**

Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto

VACANT LOT (Continued) **1019910944**

repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present

Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	750000
Redev. Funding Source:	private investors
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	12/1/2013

VACANT LOT (Continued) **1019910944**

Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1

VACANT LOT (Continued) **1019910944**

Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125

VACANT LOT (Continued) **1019910944**

Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41
Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission

VACANT LOT (Continued) **1019910944**

Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-

VACANT LOT (Continued) **1019910944**

Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41
Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404

VACANT LOT (Continued) **1019910944**

Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	1500
Assessment Funding Source:	PEDCOR
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	Private/Other Funding
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	6/1/2016
Ownership Entity:	Government
Completion Date:	9/25/2016
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017

VACANT LOT (Continued) **1019910944**

IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-

VACANT LOT (Continued) **1019910944**

SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north

VACANT LOT (Continued) **1019910944**

and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present

Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	4943
Assessment Funding Source:	PEDCOR
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	Private/Other Funding
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	00E01217
Start Date:	6/1/2016
Ownership Entity:	Government
Completion Date:	7/18/2016
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-

VACANT LOT (Continued) **1019910944**

Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-

VACANT LOT (Continued) **1019910944**

Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

Click this hyperlink while viewing on your computer to access
6 additional US BROWNFIELDS: record(s) in the EDR Site Report.

Name:	VACANT LOT
Address:	N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47404
Recipient Name:	City of Bloomington
Grant Type:	Assessment
Property Number:	-
Parcel size:	3.95
Latitude:	39.1710196
Longitude:	-86.5386199
HCM Label:	Address Matching-House Number
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Former Use: The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately

VACANT LOT (Continued) **1019910944**

1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present

Datum:	North American Datum of 1983
Acres Property ID:	171986
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	9200
Redev. Funding Source:	City of Bloomington
Redev. Funding Entity Name:	Local Funding
Redevelopment Start Date:	12/1/2013
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	00E01217
Start Date:	-
Ownership Entity:	Government
Completion Date:	-
Current Owner:	City of Bloomington Redevelopment Commission
Did Owner Change:	-
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	6/2/2017
IC in place:	Y
State/tribal program date:	7/5/2016
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controled substance found:	-
Controled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	Y
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	-

VACANT LOT (Continued) **1019910944**

Other cleaned up:	-
Other metals found:	Y
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	Y
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	1
Past use greenspace acreage:	-
Past use residential acreage:	1
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	2.95
Future use greenspace acreage:	-
Future use residential acreage:	2
Future use commercial acreage:	1.95
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	Y
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-

VACANT LOT (Continued) **1019910944**

Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is bounded by commercial properties to the north and east, with light industrial properties to the west and south. The Subject Site is currently owned by the City of Bloomington Redevelopment Commission. Parts of the site historically operated in part as a washing machine manufacture (1898-1907), basket manufacturing facility (1907-1955), a farm & feed operation (1931-1963), and as an auto repair shop/junk yard from 1963-1984. The northern portion of the site remained residential from approximately 1898-2012. The facility has been vacant since that time. The following general historical chain of ownership information was obtained from internet sources (see Section 4.4.4): Name Years Owned Unknown Prior to 1959 Indiana University 1959 - 09/06/2011 City of Bloomington Redevelopment Commission 09/06/2011 - Present
Below Poverty Number:	3402
Below Poverty Percent:	63.11
Meidan Income:	2125
Meidan Income Number:	4462
Meidan Income Percent:	82.77
Vacant Housing Number:	342
Vacant Housing Percent:	12.18
Unemployed Number:	184
Unemployed Percent:	3.41

Click this hyperlink while viewing on your computer to access
6 additional US BROWNFIELDS: record(s) in the EDR Site Report.

AF134 **IU PROPERTY** **IN BROWNFIELDS** **S119004777**
NNW **N ROGERS ST & 11TH ST SW** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47404**
0.485 mi.
2560 ft. **Site 3 of 3 in cluster AF**

Relative:
Higher

Actual:
796 ft.

Client Plot

IN BROWNFIELD:

Name:	IU PROPERTY
Address:	N ROGERS ST & 11TH ST SW
City,State,Zip:	BLOOMINGTON, IN 47404
Facility ID:	4160803
Project Manager:	Not reported
AI Id:	Not reported
Financial Assistance:	Not reported
Other Assistance:	Comfort Letter 9/26/2017 Site Status Letter 2/20/2017
ERC Not Required:	Yes
Land Use Restriction:	No single family residential unless sampled to 10 ft bgs without submitting a work plan. Shall restore the soil disturbed from construction or excavation unless and manage according to rules and regulations ((metals in soil)
Recordation Date or Letter:	3/24/2017

AE135 **THE WAREHOUSE FORMER GREASE PIT** **IN LUST** **U003113962**
South **735 S COLLEGE AVE** **IN UST** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47403**
0.485 mi.
2561 ft. **Site 2 of 2 in cluster AE**

Relative:
Lower

Actual:
726 ft.

LUST:
Name: THE WAREHOUSE FORMER GREASE PIT
Address: 735 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47403
Facility ID: 22095
Incident Number: 201409513
Description: NFA-Unconditional Closure
Priority: Medium

UST:
Name: THE WAREHOUSE FORMER GREASE PIT
Address: 735 S COLLEGE AVE
City,State,Zip: BLOOMINGTON, IN 47403
Facility ID: 22095
Owner Id: 41966
Company Name: Scofield Duncan Revocable Trust
Mailing Address: 325 E Clover Lane
Mailing Address 2: Not reported
Mailing City,St,Zip: Bloomington, IN 47408

Tank Number: 1
AI ID: 44378
TRACS Tank Number: 1C1
Tank Status: **Permanently Out of Service**
Install Date: 01/29/1996
Tank Capacity: 4000
Substance Desc: Used Oil
Closed Date: 09/03/2013

AG136 **FELL IRON & METAL INC** **SEMS-ARCHIVE** **1000274397**
NNW **503 ROGERS STREET** **IN SWRCY** **IND016208795**
1/4-1/2 **BLOOMINGTON, IN 47401** **RCRA NonGen / NLR**
0.490 mi. **PRP**
2587 ft. **Site 1 of 2 in cluster AG** **CONSENT**
FINDS

Relative:
Higher

ECHO
IN MANIFEST

Actual:
788 ft.

SEMS Archive:
Site ID: 0501367
EPA ID: IND016208795
Name: FELL IRON & METAL INC
Address: 503 ROGERS STREET
Address 2: Not reported
City,State,Zip: BLOOMINGTON, IN 47401
Cong District: 08
FIPS Code: 18105
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 05
Site ID: 0501367

FELL IRON & METAL INC (Continued) **1000274397**

EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1995-08-11 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	05
Site ID:	0501367
EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-03-26 05:00:00
Finish Date:	Not reported
Qual:	V
Current Action Lead:	EPA Perf

Region:	05
Site ID:	0501367
EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-03-01 06:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	05
Site ID:	0501367
EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-03-29 06:00:00
Qual:	H
Current Action Lead:	EPA Perf

FELL IRON & METAL INC (Continued) **1000274397**

Region:	05
Site ID:	0501367
EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1986-09-08 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	05
Site ID:	0501367
EPA ID:	IND016208795
Site Name:	FELL IRON & METAL INC
NPL:	N
FF:	N
OU:	00
Action Code:	BB
Action Name:	PRP RV
SEQ:	1
Start Date:	1988-07-06 04:00:00
Finish Date:	1996-01-26 05:00:00
Qual:	C
Current Action Lead:	EPA Ovrsght

SWRCY:

Name:	BLOOMINGTON IRON & METAL, INC.
Address:	503 N. ROGERS STREET
City,State,Zip:	BLOOMINGTON, IN 47402
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	(812) 336-6884
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported

FELL IRON & METAL INC (Continued) **1000274397**

Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

RCRA Listings:

Date Form Received by Agency:	19800721
Handler Name:	Fell Iron And Metal Inc
Handler Address:	503 N ROGERS
Handler City,State,Zip:	BLOOMINGTON, IN 47401
EPA ID:	IND016208795
Contact Name:	DAVID HIMM
Contact Address:	PO BOX 307
Contact City,State,Zip:	BLOOMINGTON, IN 47402
Contact Telephone:	812-336-6884
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 307
Mailing City,State,Zip:	BLOOMINGTON, IN 47402
Owner Name:	Dansker Mildred L
Owner Type:	Private
Operator Name:	Name Not Reported
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN

FELL IRON & METAL INC (Continued) **1000274397**

Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	F006
Waste Description:	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: DANSKER MILDRED L	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NAME NOT REPORTED	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998

FELL IRON & METAL INC (Continued) **1000274397**

Owner/Operator Telephone: 312-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19800721
Handler Name: FELL IRON AND METAL INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

PRP:
PRP Name: FELL IRON AND METAL, INC.
WESTINGHOUSE ELECTRIC CORPORATION

CONSENT:
EPA ID: IND016208795
Site ID: Not reported
Case Title: U.S. V. WESTINGHOUSE ELECTRIC CORPORATION: FELL IRON & METAL, INC.
Court Num: 88-81
District: Indiana, South
Entered Date: 19920424
Name: BLOOMINGTON, CAPACITORS
Name: FELL IRON AND METAL INC
Address: 503 N ROGERS
City,State,Zip: BLOOMINGTON, IN 47401
County: MONROE

FINDS:
Registry ID: 110003075109

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and

FELL IRON & METAL INC (Continued) **1000274397**

processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
STATE MASTER
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000274397
Registry ID:	110003075109
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003075109
Name:	FELL IRON & METAL INC
Address:	503 N ROGERS
City,State,Zip:	BLOOMINGTON, IN 47404

IN MANIFEST:

Name:	FELL IRON & METAL INC
Address:	503 N ROGERS
City,State,Zip:	BLOOMINGTON, IN 47402
Year:	Not reported
EPA ID:	IND016208795
Tons Generated:	Not reported
Tons Shipped OffSite:	Not reported
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported

FELL IRON & METAL INC (Continued) **1000274397**

TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Manifest Handler:
EPA Id #: IND016208795
Generator Type: Not reported
Generator Status: Not reported
Transporter Type: Transporter of hazardous wastes
Transporter Status: Active
TSD Type: Not reported
TSD Status: Not reported
Handler Mailing Address: 503 N ROGERS, PO BOX 307
Handler Mailing City/State/Zip: BLOOMINGTON, IN 47401
Contact Name: DAVID HIMM
Contact Telephone: 812-336-6884
Contact Type: Environmental Coordinator

Name: FELL IRON & METAL INC
Address: 503 N ROGERS
City,State,Zip: BLOOMINGTON, IN 47402
Year: Not reported
EPA ID: IND016208795
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

Name: FELL IRON & METAL INC
Address: 503 N ROGERS
City,State,Zip: BLOOMINGTON, IN 47402
Year: Not reported
EPA ID: IND016208795
Tons Generated: Not reported
Tons Shipped OffSite: Not reported
Report Type: Not reported
Page No: Not reported
Waste Desc: Not reported
UOM: Not reported
TSDF EPAID: Not reported
Management code: Not reported
Management Desc: Not reported
Waste Code: Not reported
Rejected: Not reported
Returned: Not reported

AG137 **FELL IRON & METAL INC** **IN SWRCY** **S109949528**
NNW **503 N ROGERS ST** **IN NPDES** **N/A**
1/4-1/2 **BLOOMINGTON, IN 47401**
0.490 mi.
2587 ft. **Site 2 of 2 in cluster AG**

Relative:
Higher

Actual:
788 ft.

SWRCY:

Name:	BLOOMINGTON IRON AND METAL
Address:	503 N. ROGERS ST.
City,State,Zip:	BLOOMINGTON, IN 47404
Program Company:	Bloomington Iron and Metal Inc.
Program Contact Name:	Not reported
Address:	503 N. Rogers St.
City:	Bloomington
State:	IN
Zip:	47404
Contact Phone:	812-336-6884
County:	Monroe
Entity Type:	for-profit
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Ferrous Scrap
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported

NPDES:

Name:	FELL IRON & METAL INC
Address:	503 N ROGERS ST
City,State,Zip:	BLOOMINGTON, IN 47401
Permit Number:	INRM00763
Primary Facility Sic Code:	5093
Major/Minor:	Minor
Primary Facility Sic Desc:	Scrap And Waste Materials
Facility Type Desc:	Privately Owned Facility
Permit Status Desc:	Effective
Issue Date:	04/24/2019
Expired Date:	06/09/2024
Effective Date:	06/10/2019
Terminated Date:	Not reported

FELL IRON & METAL INC (Continued) **S109949528**

DMR Cognizant Official:	Not reported
DMR Cognizant Telephone:	Not reported
Waterbody:	Not reported
Total Actual Average Flow (MGD):	Not reported
Total App. Design Flow (MGD):	Not reported
FRS HUC Code:	05120208
Latitude In Decimal Degrees:	39.171034
Longitude In Decimal Degrees:	-86.53869

NPDES:

Permit Number:	INRM00763
Permit Name:	Fell Iron & Metal Inc
Physical Address Line 1:	503 N Rogers St
Physical Address Line 2:	Not reported
Address City:	Bloomington
Address State:	IN
Address Zip:	47401
Address County:	Monroe
Master Facility Name:	Not reported
Permit Group:	NPDES - GP Industrial Storm Water
Comments:	IN-NPDES

Count: 5 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BLOOMINGTON	U003950634	FIRESTONE STORE 29GW/006793	3RD & WALNUT	47403	IN LUST, IN UST
BLOOMINGTON	S128185371	FORMER MOBIL GAS STATION	600 & 616 S WALNUT ST		IN VCP
BLOOMINGTON	1003870752	GREENE ED & SONS	8TH & ADAMS ST	47401	SEMS-ARCHIVE
BLOOMINGTON	1003872890	BASTON JUNKYARD	ROGERS STREET	47401	SEMS-ARCHIVE
BLOOMINGTON	1003872904	RUSH LUMBER YARD	SOUTH WALNUT, BEHIND SOUTHSIDE	47401	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 25

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/10/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/28/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022
Date Data Arrived at EDR: 11/08/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 12/19/2022
Number of Days to Update: 5

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/21/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

List of hazardous waste response sites scored utilizing the Indiana Scoring Model. The Indiana Scoring Model is a method of prioritizing, for state response actions, those hazardous substances response sites which are not on the National Priorities List. The ISM serves as the Commissioners management tool to address those sites which pose the most significant threat to human health and the environment in addition to assuring the departments resources are allocated accordingly.

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 08/27/2007
Date Made Active in Reports: 09/18/2007
Number of Days to Update: 22

Source: Department of Environmental Management
Telephone: 317-308-3052
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

Lists of state and tribal landfills and solid waste disposal facilities

OPEN DUMPS: Open Dump Waste Sites

Open Dumps are sites that are not regulated and are illegal dump sites of solid waste, as defined by IAC 10-2-28 329 and IAC 10-2-128 of the Indiana Administrative Code.

Date of Government Version: 06/26/2009
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/20/2014
Number of Days to Update: 40

Source: Department of Environmental Management
Telephone: 317-232-8726
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 03/09/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 85

Source: Department of Environmental Management
Telephone: 317-232-0066
Last EDR Contact: 03/10/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Lust Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Environmental Management
Telephone: 317-232-8900
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/29/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

UST: Indiana Registered Underground Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/07/2023
Number of Days to Update: 83
Source: Department of Environmental Management
Telephone: 317-308-3008
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks
A listing of aboveground storage tank sites that reported under the emergency rule.

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 05/16/2017
Date Made Active in Reports: 09/06/2017
Number of Days to Update: 113
Source: N/A
Telephone: 317-232-2393
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: N/A

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

AUL: Sites with Restrictions

Activity and use limitations include both engineering controls and institutional controls. A listing of Comfort/Site Status Letter sites that have been issued with controls.

Date of Government Version: 10/04/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/07/2023
Number of Days to Update: 83

Source: Department of Environmental Management
Telephone: 317-232-8603
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Remediation Program Site List

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/23/2022
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-234-0966
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/17/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Varies

SCP: State Cleanup Program Sites

The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/23/2022
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-233-0068
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List

A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redeveloopment is complicated due to the actual or perceived environmental contamination.

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Environmental Management
Telephone: 317-233-2570
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 06/26/2023
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Indiana.

Date of Government Version: 01/21/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 82

Source: Department of Environmental Management
Telephone: 317-234-4050
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

SWTIRE: Waste Tire Sites Listing

This listing consists of Tire Sites - sites which contain tires - either for processing, for storage, or transport - as well as some illegal tire dumps, as defined by IC 13-11-2-251, IC 13-11-2-252, and IC 13-11-250.5 of the Indiana Code.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/17/2023
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 317-232-8726
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 8
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing
A listing of clandestine drub labs that have been cleaned up.

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 15
Source: Department of Environmental Management
Telephone: 317-416-5031
Last EDR Contact: 03/29/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Quarterly

DEL SHWS: Deleted Commissioner's Bulletin Sites List
A listing of sites deleted/removed from the Commissioner's Bulletin List

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/04/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 10
Source: Department of Environmental Management
Telephone: 317-234-0347
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 8
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Quarterly

CDL 2: A listing of clandestine labs reported to the Indiana State Police.
A listing of clandestine labs reported to the Indiana State Police.

Date of Government Version: 01/02/2023
Date Data Arrived at EDR: 01/04/2023
Date Made Active in Reports: 03/22/2023
Number of Days to Update: 77
Source: Indiana State Police
Telephone: 317-234-4591
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/13/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/10/2023
Number of Days to Update: 86
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

SPILLS: Spills Incidents
Oil, hazardous, or objectionable materials that may be released to soil and water.

Date of Government Version: 08/31/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82
Source: Department of Environmental Management
Telephone: 317-308-3038
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/07/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 39
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch
Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 09/11/2002
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 56
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/01/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 91

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/10/2023
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/13/2023
Next Scheduled EDR Contact: 06/26/2023
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/16/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/18/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/18/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 01/04/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 89

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/29/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 13

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/03/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/27/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/23/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/13/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 11/17/2022
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/27/2023
Date Data Arrived at EDR: 03/01/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 23

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/20/2022
Date Data Arrived at EDR: 12/20/2022
Date Made Active in Reports: 03/10/2023
Number of Days to Update: 80

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/16/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/02/2023
Date Data Arrived at EDR: 02/28/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 24

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/01/2023
Date Data Arrived at EDR: 01/04/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/31/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 91

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 01/02/2023
Date Data Arrived at EDR: 01/05/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS: Per- and Polyfluoroalkyl Substances

A listing of Known PFAS contaminated sites in Indiana.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 12/20/2022
Date Made Active in Reports: 03/22/2023
Number of Days to Update: 92

Source: Department of Environmental Management
Telephone: 317-232-8667
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

AIRS: Permitted Sources & Emissions Listing

Current permitted sources and emissions inventory information.

Date of Government Version: 12/01/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/17/2023
Number of Days to Update: 86

Source: Department of Environmental Management
Telephone: 317-233-0185
Last EDR Contact: 03/28/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ASBESTOS: Asbestos Notification Listing
A listing of asbestos notification site locations.

Date of Government Version: 10/01/2022
Date Data Arrived at EDR: 11/02/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 83

Source: Department of Environmental Management
Telephone: 317-233-0178
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

BULK: Registered Bulk Fertilizer and Pesticide Storage Facilities
A listing of registered dry or liquid bulk fertilizer and pesticide storage facilities.

Date of Government Version: 11/02/2022
Date Data Arrived at EDR: 11/02/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 83

Source: Office of Indiana State Chemist
Telephone: 765-494-0579
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

CFO: Confined Feeding Operations
This dataset consists of Confined Feeding Operations - i.e. A swine, chicken, turkey, beef or dairy agri-business that has large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code.

Date of Government Version: 08/12/2022
Date Data Arrived at EDR: 09/27/2022
Date Made Active in Reports: 12/13/2022
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-232-8726
Last EDR Contact: 03/27/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: No Update Planned

COAL ASH: Coal Ash Disposal Sites
A listing of coal ash disposal site locations.

Date of Government Version: 11/19/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 16

Source: Department of Environmental Management
Telephone: 317-233-4624
Last EDR Contact: 03/02/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing
A list of drycleaners involved in the Indiana 5-Star Environmental Recognition Program. It is a voluntary program that ranks participating drycleaners on a scale of one to five stars. The program recognizes those drycleaners willing to do more for the environment and worker safety than the rules require. These drycleaners are going above and beyond the rules to protect the environment, their employees and their neighbors and customers.

Date of Government Version: 10/17/2017
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 04/18/2018
Number of Days to Update: 36

Source: Department of Environmental Management
Telephone: 800-988-7901
Last EDR Contact: 03/02/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

DRYCLEANERS 2: Drycleaner and Laundry Dataset
The dry cleaner and laundry (DCaL) dataset was compiled from historical and current city directories, business directories, and telephone books with categories (and variations) including, but not limited to the following: Cleaners (i.e. Cleaners and Dryers, Cleaners and Dyers, Cleaners and Pressers, etc.), Clothes Pressers and Cleaner, Dry Cleaners, Garment Pressing and Cleaners, and, Laundries (including self-serve).

Date of Government Version: 03/23/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-233-7696
Last EDR Contact: 03/10/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 01/04/2023
Date Data Arrived at EDR: 01/05/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 78

Source: Department of Environmental Management
Telephone: 317-233-1052
Last EDR Contact: 03/23/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/04/2023
Date Data Arrived at EDR: 01/05/2023
Date Made Active in Reports: 03/22/2023
Number of Days to Update: 76

Source: Department of Environmental Management
Telephone: 317-233-1052
Last EDR Contact: 03/23/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

IND WASTE: Industrial Waste Sites Listing
The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

Date of Government Version: 11/29/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 02/15/2023
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-232-8726
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

IN MANIFEST: Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 01/02/2020
Date Made Active in Reports: 03/05/2020
Number of Days to Update: 63

Source: Department of Environmental Management
Telephone: 317-233-4624
Last EDR Contact: 03/23/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Annually

NPDES: NPDES Permit Listing
A listing of active NPDES Permit Section facility locations.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 10/06/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 77

Source: Department of Environmental Management
Telephone: 317-233-0676
Last EDR Contact: 03/23/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

OISC: Office of Indiana State Chemist Database
Restricted use pesticide dealers and pesticide & fertilizer applicators.

Date of Government Version: 12/09/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/02/2023
Number of Days to Update: 83

Source: Office of Indiana State Chemist & Seed
Telephone: 765-494-1492
Last EDR Contact: 03/14/2023
Next Scheduled EDR Contact: 06/26/2023
Data Release Frequency: Quarterly

TIER 2: Tier 2 Facility Listing
A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 05/03/2019
Date Made Active in Reports: 07/03/2019
Number of Days to Update: 61

Source: Department of Environmental Management
Telephone: 317-233-0066
Last EDR Contact: 02/21/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

UIC: UIC Site Listing
A listing of class II well locations

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/07/2023
Number of Days to Update: 83

Source: Department of Natural Resources
Telephone: 317-232-0045
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI
Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2023
Date Data Arrived at EDR: 03/07/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Management
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/20/2014
Number of Days to Update: 203

Source: Department of Environmental Management
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Management
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/10/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/13/2022
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/06/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing
Source: Family & Social Services Administration
Telephone: 317-232-4740

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

216 S. COLLEGE - PARKING LOT
216 S. COLLEGE AVE
BLOOMINGTON, IN 47404

TARGET PROPERTY COORDINATES

Latitude (North):	39.165302 - 39° 9' 55.09''
Longitude (West):	86.535271 - 86° 32' 6.98''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	540149.0
UTM Y (Meters):	4335015.0
Elevation:	753 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	13159151 BLOOMINGTON, IN
Version Date:	2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

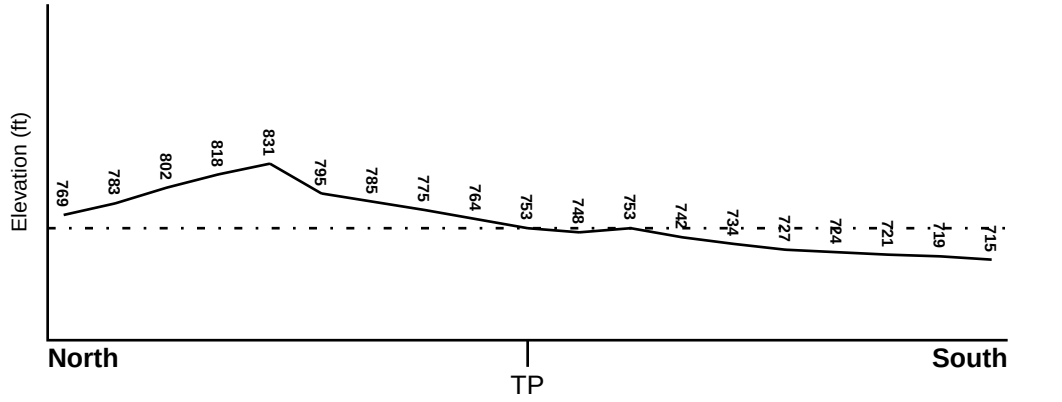
TOPOGRAPHIC INFORMATION

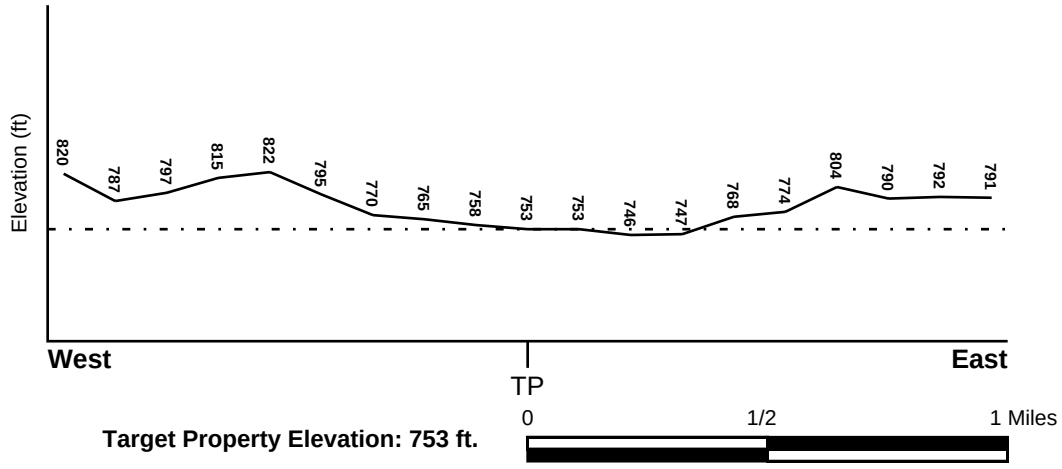
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





0 1/2 1 Miles

Target Property Elevation: 753 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
18105C0141D	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
18105C0142D	FEMA FIRM Flood data
18105C0143D	FEMA FIRM Flood data
18105C0144D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BLOOMINGTON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

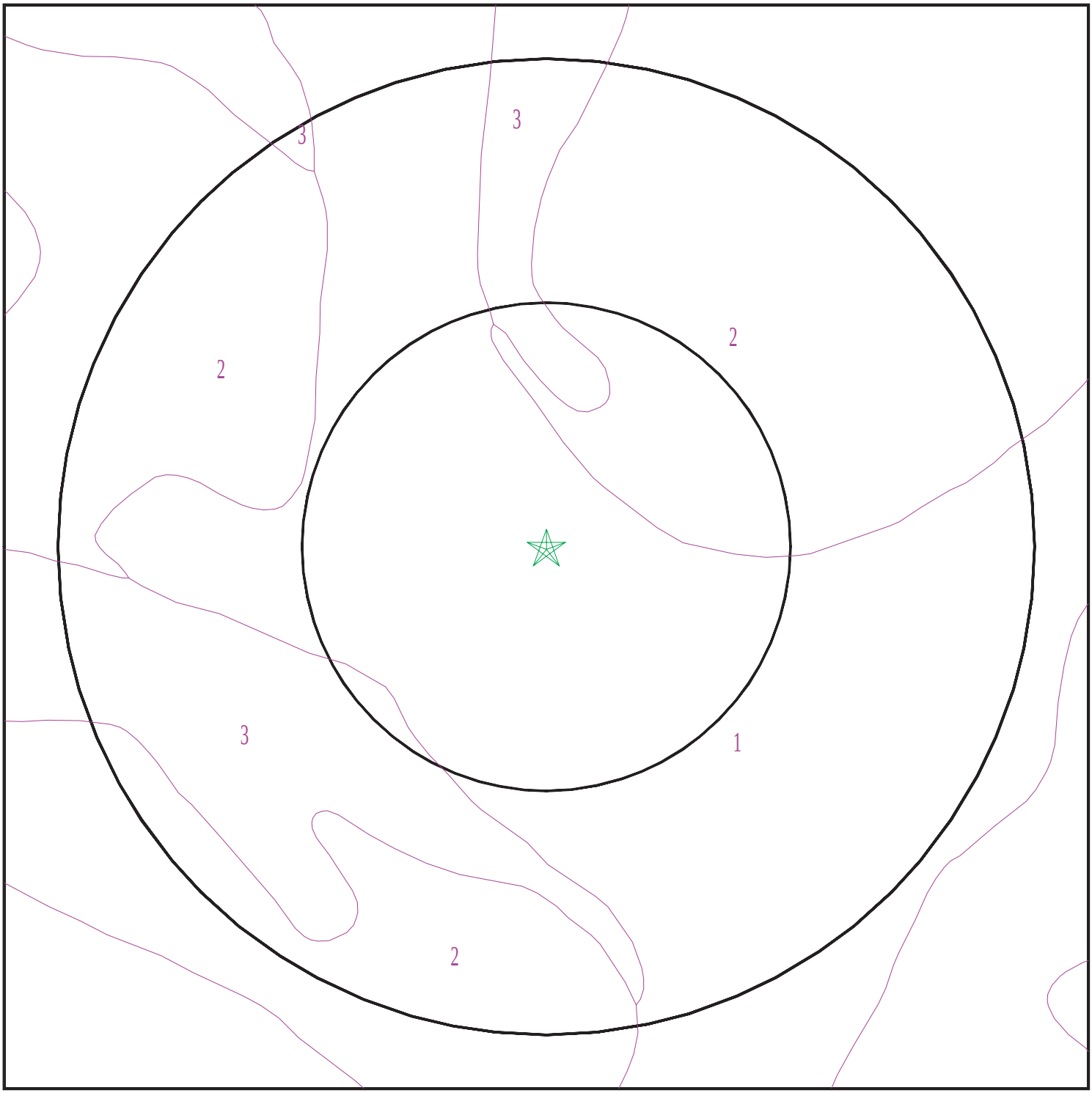
Era:	Paleozoic
System:	Mississippian
Series:	Meramecian Series
Code:	M2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7300512.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	216 S. College - Parking Lot	CLIENT:	BCA Environmental Consultants
ADDRESS:	216 S. College Ave Bloomington IN 47404	CONTACT:	Rod Manny
LAT/LONG:	39.165302 / 86.535271	INQUIRY #:	7300512.2s
		DATE:	April 05, 2023 6:49 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Udorthents, loamy

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Crider

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 250 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
2	7 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
3	35 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5

Soil Map ID: 3

Soil Component Name: Crider

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 250 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
2	7 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5
3	35 inches	79 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 7.3 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000307775	1/4 - 1/2 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

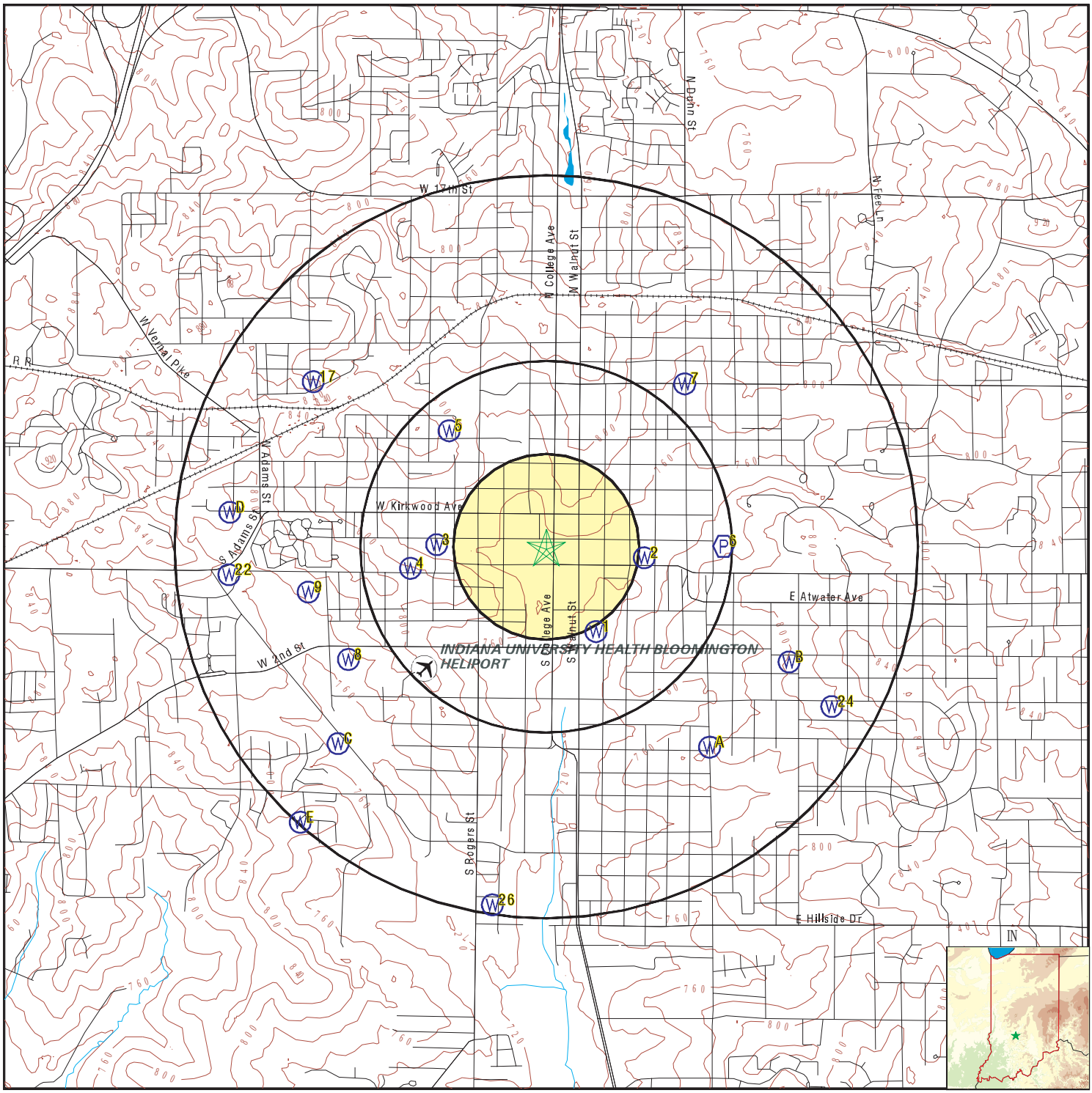
MAP ID	WELL ID	LOCATION FROM TP
6	IN5253002	1/4 - 1/2 Mile East

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	INDNR6000026533	1/4 - 1/2 Mile East
3	INDNR6000026534	1/4 - 1/2 Mile West
4	INDNR6000026530	1/4 - 1/2 Mile West
5	INDNR6000026550	1/4 - 1/2 Mile NW
7	INDNR6000026554	1/2 - 1 Mile NE
8	INDNR6000026520	1/2 - 1 Mile WSW
9	INDNR6000026526	1/2 - 1 Mile West
A10	INDNR6000026504	1/2 - 1 Mile SE
A11	INDNR6000026505	1/2 - 1 Mile SE
B12	INDNR6000026519	1/2 - 1 Mile ESE
B13	INDNR6000026516	1/2 - 1 Mile ESE
B14	INDNR6000026515	1/2 - 1 Mile ESE
B15	INDNR6000026518	1/2 - 1 Mile ESE
B16	INDNR6000026517	1/2 - 1 Mile ESE
17	INDNR6000026555	1/2 - 1 Mile NW
C18	INDNR6000026506	1/2 - 1 Mile SW
C19	INDNR6000026507	1/2 - 1 Mile SW
D20	INLIT4000092368	1/2 - 1 Mile West
D21	INDNR6000026540	1/2 - 1 Mile West
22	INDNR6000026528	1/2 - 1 Mile West
D23	INDNR6000026541	1/2 - 1 Mile West
24	INDNR6000026511	1/2 - 1 Mile ESE
D25	INDNR6000026542	1/2 - 1 Mile West
26	INDNR6000026492	1/2 - 1 Mile South
E27	INDNR6000026494	1/2 - 1 Mile SW
E28	INDNR6000026495	1/2 - 1 Mile SW
E29	INLIT4000087519	1/2 - 1 Mile SW
E30	INLIT4000087530	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 7300512.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	216 S. College - Parking Lot	CLIENT:	BCA Environmental Consultants
ADDRESS:	216 S. College Ave Bloomington IN 47404	CONTACT:	Rod Manny
		INQUIRY #:	7300512.2s
LAT/LONG:	39.165302 / 86.535271	DATE:	April 05, 2023 6:49 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS40000307775**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-IN	Organization Name:	USGS Indiana Water Science Center
Monitor Location:	IW-24 BLOOMINGTON, IND.	Type:	Well
Description:	10/00-DAC C14 POPULATED FROM IN24K-NDX BY LAT-LONG		
HUC:	05120208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Not Reported
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	175
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

2
East **IN WELLS** **INDNR6000026533**
1/4 - 1/2 Mile
Lower

Well Reference #:	222466	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	84	Well Depth (ft):	155
Owner:	JAMES OWEN	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	2	Casing Diameter:	6
Casing Length:	17	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	17
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	05-APR-61
Ground Elevation:	690		

3
West **IN WELLS** **INDNR6000026534**
1/4 - 1/2 Mile
Higher

Well Reference #:	213350	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	85	Well Depth (ft):	100
Owner:	HARLEY & GOLDIE HENDRICKS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	85	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	37
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	5.63
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	26-JUL-63	Ground Elevation:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

4
West
1/4 - 1/2 Mile
Higher | **IN WELLS** | **INDNR6000026530**

Well Reference #:	223956	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	30	Well Depth (ft):	125
Owner:	GENEVENE LOVEJOY GALYAN		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	95	Hours Bailer Test:	0
Casing Diameter:	6	Casing Length:	32
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	20-MAY-60	Ground Elevation:	740

5
NW
1/4 - 1/2 Mile
Higher | **IN WELLS** | **INDNR6000026550**

Well Reference #:	416354	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	789
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	300
Owner:	FAIRVIEW ELEMENTARY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	300
Grout Method:	BENSEAL	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	04-JUN-08	Ground Elevation:	797

6
East
1/4 - 1/2 Mile
Higher | **FRDS PWS** | **IN5253002**

Epa region:	05	State:	IN
Pwsid:	IN5253002	Pwsname:	CITY OF BLOOMINGTON UTILITIES
Cityserved:	Not Reported	Stateserved:	IN
Zipserved:	Not Reported	Fipscounty:	18105
Status:	Active	Retpopsrvd:	66569
Pwssvcconn:	24655	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	ATZ, RACHEL	Contactorgname:	ATZ, RACHEL
Contactphone:	812-327-6242	Contactaddress1:	P.O. Box 1216
Contactaddress2:	Not Reported	Contactcity:	BLOOMINGTON
Contactstate:	IN	Contactzip:	47402

Pwsactivitycode: A

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: particulate removal
Trtprocess: coagulation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: organics removal
Trtprocess: activated carbon, powdered
Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: particulate removal
Trtprocess: coagulation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection by-products control
Trtprocess: rapid mix Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: inorganics removal
Trtprocess: rapid mix Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: organics removal
Trtprocess: coagulation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection by-products control
Trtprocess: flocculation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: inorganics removal
Trtprocess: flocculation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: organics removal
Trtprocess: flocculation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: particulate removal
Trtprocess: flocculation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: particulate removal
Trtprocess: sedimentation Factypecode: TP

Pwsid: IN5253002 Facid: 7448
Facname: TREATMENT PLANT Factype: Treatment_plant
Facactivitycode: A Trtobjective: particulate removal
Trtprocess: sedimentation Factypecode: TP

Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	chloramines	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection by-products control
Trtprocess:	filtration, rapid sand	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	inorganics removal
Trtprocess:	filtration, rapid sand	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	organics removal
Trtprocess:	filtration, rapid sand	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	filtration, rapid sand	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection by-products control
Trtprocess:	rapid mix	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	inorganics removal
Trtprocess:	rapid mix	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	particulate removal
Trtprocess:	rapid mix	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, pre	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection by-products control
Trtprocess:	activated carbon, powdered		
Factypecode:	TP		

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Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	organics removal
Trtprocess:	permanganate	Factypecode:	TP
Pwsid:	IN5253002	Facid:	7448
Facname:	TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	taste / odor control
Trtprocess:	permanganate	Factypecode:	TP
PWS ID:	IN5253002	PWS name:	BLOOMINGTON WATER DEPT
Address:	PO BOX 1216	Care of:	JOHN S.TROTTER
City:	BLOOMINGTON	State:	IN
Zip:	47402	Owner:	BLOOMINGTON WATER DEPT
Source code:	Surface water	Population:	45988
PWS ID:	IN5253002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	CITY OF BLOOMINGTON UTILITIES
PWS type code:	C	Retail population served:	69241
Contact:	ATZ, RACHEL	Contact address:	P.O. Box 1216
Contact address:	BLOOMINGTON	Contact city:	IN
Contact state:	47	Contact zip:	812-339-14
Contact telephone:	Not Reported		
County:	MONROE	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, PRE
Population:	45988		
County:	MONROE	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	CHLORINATION (FRDS-1.5)
Population:	45988		
County:	MONROE	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FILTERED
Population:	45988		
PWS ID:	IN5253002	Activity status:	Active
Date system activated:	7601	Date system deactivated:	Not Reported
Retail population:	00051870	System name:	BLOOMINGTON WATER DEPT
System address:	JOHN S.TROTTER	System address:	PO BOX 1216
System city:	BLOOMINGTON	System state:	IN
System zip:	47401		
Population served:	50,001 - 75,000 Persons	Treatment:	Treated
Latitude:	390955	Longitude:	0863135
Violation id:	1715	Orig code:	S
State:	IN	Violation Year:	2010
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	53	Violation name:	Water Quality Parameter M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2010
Cmp edt:	12/31/2010		
Violation id:	502	Orig code:	S
State:	IN	Violation Year:	2002
Contamination code:	2920	Contamination Name:	CARBON, TOTAL
Violation code:	27	Violation name:	Monitoring and Reporting (DBP)

Rule code:	210	Rule name:	St1 DBP
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2002
Cmp edt:	03/31/2002		

Violation id:	702	Orig code:	S
State:	IN	Violation Year:	2002
Contamination code:	0999	Contamination Name:	Chlorine
Violation code:	27	Violation name:	Monitoring and Reporting (DBP)
Rule code:	210	Rule name:	St1 DBP
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2002
Cmp edt:	03/31/2002		

Violation ID:	1715	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	02/29/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	1715	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	02/29/2012
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/18/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/18/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	502	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/28/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/18/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/18/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	03/28/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	702	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	04/08/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	702	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	04/05/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	702	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	04/05/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

PWS name: CITY OF BLOOMINGTON UTILITIES

Population served: 69241
PWS type code: C
Violation ID: 502
Contaminant: CARBON, TOTAL-ORGANIC
Violation type: 27
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 3/31/2002 0:00:00
Enforcement date: 3/18/2002 0:00:00
Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 502
Contaminant: CARBON, TOTAL-ORGANIC
Violation type: 27
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 3/31/2002 0:00:00
Enforcement date: 3/18/2002 0:00:00
Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 502
Contaminant: CARBON, TOTAL-ORGANIC
Violation type: 27
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 3/31/2002 0:00:00
Enforcement date: 3/28/2002 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 602
Contaminant: Not Reported
Violation type: Operations Report
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 1/31/2002 0:00:00
Enforcement date: 3/18/2002 0:00:00
Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 602
Contaminant: Not Reported
Violation type: Operations Report
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 1/31/2002 0:00:00
Enforcement date: 3/18/2002 0:00:00
Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 602
Contaminant: Not Reported
Violation type: Operations Report
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 1/31/2002 0:00:00
Enforcement date: 3/28/2002 0:00:00
Enforcement action: State Compliance Achieved
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 702
Contaminant: 0999
Violation type: 27
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 3/31/2002 0:00:00
Enforcement date: 4/5/2002 0:00:00
Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES
Population served: 69241
PWS type code: C
Violation ID: 702
Contaminant: 0999
Violation type: 27
Compliance start date: 1/1/2002 0:00:00
Compliance end date: 3/31/2002 0:00:00
Enforcement date: 4/5/2002 0:00:00
Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: CITY OF BLOOMINGTON UTILITIES

Population served:	69241	PWS type code:	C
Violation ID:	702	Contaminant:	0999
Violation type:	27	Compliance start date:	1/1/2002 0:00:00
Compliance end date:	3/31/2002 0:00:00	Enforcement date:	4/8/2002 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

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7
NE **IN WELLS** **INDNR6000026554**
1/2 - 1 Mile
Higher

Well Reference #:	317238	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	10	Screen Diameter:	2
Static Water Level:	7.05	Well Depth (ft):	20.375
Owner:	INDIANA UNIVERSITY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	2	Casing Length:	10
Casing Material:	PVC	Depth to Grout:	9.5
Grout Method:	BENT	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	14-DEC-94	Ground Elevation:	0

8
WSW **IN WELLS** **INDNR6000026520**
1/2 - 1 Mile
Higher

Well Reference #:	213355	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	30	Well Depth (ft):	95
Owner:	HARRY CARPENTER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70
Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	20	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	06-OCT-65
Ground Elevation:	0		

9
West **IN WELLS** **INDNR6000026526**
1/2 - 1 Mile
Higher

Well Reference #:	20869	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	200
Owner:	DMR MEDICAL COMPLEX		

PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	BENTONITE	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	01-NOV-90	Ground Elevation:	0

A10
SE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026504**

Well Reference #:	213647	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	0
Owner:	PETE HOLLARA	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	2	Casing Diameter:	6.25
Casing Length:	55	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	55
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	23-AUG-66
Ground Elevation:	0		

A11
SE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026505**

Well Reference #:	213652	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	10
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	175
Owner:	LEON CROHM	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	0	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	12
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	01-OCT-52
Ground Elevation:	0		

B12
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026519**

Well Reference #:	29502	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	15	Depth to Bedrock (ft):	0

Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	3	Screen Diameter:	0
Static Water Level:	28.5	Well Depth (ft):	42
Owner:	CURTIS COLDER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	4
Casing Length:	42	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	27-MAR-79
Ground Elevation:	0		

B13
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026516**

Well Reference #:	309958	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	15
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	320
Owner:	MIKE VAUGHN	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	80	Casing Material:	PVC
Depth to Grout:	0	Grout Method:	BENT
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	290	Pump Test Drawdown (ft):	0
Hours Tested:	1	Date Completed:	13-JUN-97
Ground Elevation:	0		

B14
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026515**

Well Reference #:	198753	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	17	Well Depth (ft):	105
Owner:	WILLIAM SACHTINE		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	.5
Casing Diameter:	6	Casing Length:	22.5
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	24-OCT-60	Ground Elevation:	0

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B15
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026518**

Well Reference #:	18021	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	1
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	292
Owner:	DAVID T JONES	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	5.8
Casing Length:	30	Casing Material:	Not Reported
Depth to Grout:	30	Grout Method:	BENT
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	285	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	01-NOV-92
Ground Elevation:	0		

B16
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026517**

Well Reference #:	400398	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	20
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	35	Well Depth (ft):	119
Owner:	KEVIN STORMS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	0
Casing Length:	88	Casing Material:	PVC5
Depth to Grout:	0	Grout Method:	BNSL
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	12-OCT-05
Ground Elevation:	0		

17
NW
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026555**

Well Reference #:	222160	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	64	Well Depth (ft):	110
Owner:	LOGAN HOWARD	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	2	Casing Diameter:	6
Casing Length:	21	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	5.63	Liner Length (ft):	21

Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	19-JUL-61
Ground Elevation:	0		

C18
SW
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026506**

Well Reference #:	310447	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	0
Owner:	HAUGHTON ELEVATOR CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	16	Casing Length:	21
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	Not Reported	Ground Elevation:	0

C19
SW
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026507**

Well Reference #:	310448	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	0
Owner:	HAUGHTON ELEV. CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	0
Casing Diameter:	16	Casing Length:	15
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	01-APR-53	Ground Elevation:	0

D20
West
1/2 - 1 Mile
Higher

IN WELLS **INLIT4000092368**

iLITH ID:	92372	Agency ID:	222145
Elevation (ft):	790	Lithological Total Depth:	72
Drilled Depth:	72	Static Water Level:	16
Completion Date:	1961-03-28 00:00:00	Driller Name:	Empson - John L.
Record Source:	IDNR	Bedrock Depth:	7

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D21
West
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026540**

Well Reference #:	222145	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	5	Depth to Bedrock (ft):	783
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	16	Well Depth (ft):	72
Owner:	SHELBY KLEINDOFFER		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Test:	2
Casing Diameter:	6	Casing Length:	15
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	5.63
Liner Length (ft):	15	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	28-MAR-61	Ground Elevation:	790

22
West
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026528**

Well Reference #:	213662	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1.25	Depth to Bedrock (ft):	780
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	12	Well Depth (ft):	80
Owner:	FOWLER COAL CO.	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	68
Hours Bailer Test:	8	Casing Diameter:	6
Casing Length:	10	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	11-JUN-64
Ground Elevation:	790		

D23
West
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026541**

Well Reference #:	222150	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1.5	Depth to Bedrock (ft):	777
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	28	Well Depth (ft):	70
Owner:	WEST SIDE CHURCH		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	42	Hours Bailer Test:	8
Casing Diameter:	6	Casing Length:	28
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0

Liner Length (ft):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Date Completed:	09-OCT-64	Ground Elevation:	805

24
ESE
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026511**

Well Reference #:	213389	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	30	Well Depth (ft):	95
Owner:	BORIS SALNZEFF	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70
Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	20	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	06-OCT-65
Ground Elevation:	0		

D25
West
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026542**

Well Reference #:	222431	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	6
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	95	Well Depth (ft):	195
Owner:	REX SAMPSON	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Test:	0	Casing Diameter:	6.25
Casing Length:	14	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	195
Hours Tested:	1	Date Completed:	07-JUN-74
Ground Elevation:	0		

26
South
1/2 - 1 Mile
Lower

IN WELLS **INDNR6000026492**

Well Reference #:	213384	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	40	Well Depth (ft):	98
Owner:	FRANK ROPP	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	70

Hours Bailer Test:	0	Casing Diameter:	6.5
Casing Length:	31	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	6	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	04-AUG-65
Ground Elevation:	0		

E27
SW
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026494**

Well Reference #:	213657	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	0
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	0	Well Depth (ft):	140
Owner:	CLAUDE EASTON	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	80
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	13	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	22-SEP-68
Ground Elevation:	810		

E28
SW
1/2 - 1 Mile
Higher

IN WELLS **INDNR6000026495**

Well Reference #:	213672	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	1	Depth to Bedrock (ft):	800
Pump Type:	Not Reported	Pump Water Production (gal/min):	0
Screen Length (ft):	0	Screen Diameter:	0
Static Water Level:	25	Well Depth (ft):	110
Owner:	DALE STONSIFER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	73
Hours Bailer Test:	0	Casing Diameter:	6
Casing Length:	13	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Liner Length (ft):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Date Completed:	14-SEP-60
Ground Elevation:	810		

E29
SW
1/2 - 1 Mile
Higher

IN WELLS **INLIT4000087519**

iLITH ID:	87523	Agency ID:	213657
Elevation (ft):	810	Lithological Total Depth:	140
Drilled Depth:	140	Static Water Level:	0

Completion Date:	1968-09-22 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	110

E30
SW
1/2 - 1 Mile
Higher

IN WELLS **INLIT4000087530**

iLITH ID:	87534	Agency ID:	213672
Elevation (ft):	810	Lithological Total Depth:	110
Drilled Depth:	110	Static Water Level:	25
Completion Date:	1960-09-14 00:00:00	Driller Name:	George Snapp
Record Source:	IDNR	Bedrock Depth:	13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: IN Radon

Radon Test Results

Zipcode	Year	Test Type	Location	Result
47404	2000	Short Term	2nd Floor	3.7
47404	1996	Post-Mitigation	Other	6.8
47404	0	Unknown	Other	1.0
47404	0	Unknown	Other	5.3
47404	1997	Long Term	Other	0.9
47404	2000	Short Term	Other	4.9
47404	1996	Short Term	Other	0.4
47404	0	Unknown	Other	3.6
47404	0	Unknown	Other	3.3
47404	0	Unknown	Other	1.7
47404	1996	Post-Mitigation	Other	9.3
47404	2000	Post-Mitigation	1st Floor	3.4
47404	1999	Long Term	Basement	2.5
47404	1994	Short Term	Other	2.1
47404	1994	Short Term	Other	2.7
47404	0	Unknown	Other	10.7
47404	0	Unknown	Other	1.0
47404	0	Unknown	Other	4.2
47404	0	Unknown	Other	6.4
47404	0	Unknown	Other	0.7
47404	0	Unknown	Other	0.9
47404	0	Unknown	Other	0.8
47404	0	Unknown	Other	1.3
47404	0	Unknown	Other	4.3
47404	2000	Unknown	Other	1.7
47404	0	Unknown	Other	3.3
47404	0	Unknown	Other	5.3
47404	0	Unknown	Other	10.0
47404	0	Unknown	Other	10.0
47404	0	Unknown	Other	28.5
47404	0	Unknown	Other	28.5
47404	0	Unknown	Other	6.0
47404	0	Unknown	Other	0.8
47404	0	Unknown	Other	2.0
47404	1996	Long Term	Basement	6.0
47404	1998	Long Term	1st Floor	2.1
47404	1999	Long Term	1st Floor	1.7
47404	0	Unknown	Other	3.5
47404	0	Short Term	Basement	3.5
47404	0	Short Term	1st Floor	6.3
47404	0	Short Term	1st Floor	6.3
47404	0	Short Term	1st Floor	9.5
47404	2000	Short Term	Basement	68.1
47404	2000	Short Term	Basement	70.7
47404	2000	Short Term	1st Floor	1.4
47404	2000	Short Term	1st Floor	4.9
47404				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	2000	Short Term	Other	0.6
47404	1997	Short Term	Basement	18.3
47404	1997	Short Term	Basement	2.6
47404	1997	Short Term	Basement	5.3
47404	1997	Short Term	Basement	1.1
47404	1997	Post-Mitigation	Other	1.3
47404	1997	Post-Mitigation	Other	0.6
47404	1997	Post-Mitigation	Other	5.6
47404	2000	Short Term	Other	4.9
47404	2000	Short Term	Other	5.4
47404	2000	Short Term	Other	5.4
47404	2000	Short Term	Other	6.1
47404	2000	Short Term	2nd Floor	3.7
47404	2000	Short Term	Basement	1.4
47404	1996	Short Term	Other	6.7
47404	1996	Short Term	Other	1.3
47404	1996	Short Term	Other	0.2
47404	1998	Short Term	Other	3.2
47404	2000	Short Term	Basement	1.0
47404	2000	Short Term	Basement	1.2
47404	2004	Short Term	Basement	16.8
47404	2004	Short Term	Basement	1.4
47404	2002	Short Term	Basement	9.0
47404	2002	Short Term	Basement	9.0
47404	2003	Short Term	1st Floor	2.4
47404	2003	Short Term	1st Floor	1.1
47404	2003	Short Term	1st Floor	1.0
47404	2001	Short Term	1st Floor	2.3
47404	2001	Short Term	Basement	1.5
47404	2001	Short Term	Basement	2.6
47404	2001	Short Term	Basement	10.0
47404	2001	Short Term	Basement	3.3
47404	2001	Short Term	Basement	7.1
47404	2002	Short Term	Basement	4.8
47404	2002	Short Term	Basement	4.8
47404	2002	Short Term	Basement	4.8
47404	2002	A,C	Basement	2.2
47404	2002	Short Term	Basement	4.8
47404	2002	Short Term	Basement	4.8
47404	2002	A,C	Basement	2.2
47404	2000	Long Term	Other	11.6
47404	2000	Long Term	Basement	2.3
47404	2000	Short Term	1st Floor	0.6
47404	2000	Short Term	1st Floor	0.6
47404	2000	Short Term	1st Floor	1.1
47404	2000	Long Term	Basement	1.0
47404	2000	Short Term	1st Floor	1.4
47404	2001	Short Term	1st Floor	8.0
47404	2001	Short Term	Basement	6.5
47404	2001	Short Term	1st Floor	5.4
47404	2001	Short Term	1st Floor	2.3
47404	1994	Short Term	Other	1.0
47404	2000	Short Term	Basement	0.4
47404	2000	Short Term	1st Floor	6.7
47404	1997	Short Term	Other	2.2
47404	2000	Short Term	Other	6.1
47404				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	1996	Short Term	Other	0.8
47404	2003	Short Term	Basement	2.2
47404	2003	Short Term	1st Floor	4.6
47404	2001	Short Term	Basement	1.9
47404	2001	Short Term	Basement	6.6
47404	2002	Short Term	Basement	4.8
47404	2000	Short Term	1st Floor	1.1
47404	2001	Short Term	Basement	23.6

Federal EPA Radon Zone for MONROE County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MONROE COUNTY, IN

Number of sites tested: 19

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.718 pCi/L	91%	9%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.289 pCi/L	58%	37%	5%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Wells
Source: Department of Environmental Management
Telephone: 317-308-3323
Community and non-community drinking water wells.

Observation Wells Database
Source: Indiana Geological Survey
Telephone: 812-855-7636
Water Wells for Monitoring Ground Water in Indiana

Public Water Supply Wells
Source: Department of Environmental Management
Telephone: 317-308-3323
Community and non-community drinking water wells.

Water Wells Database
Source: Indiana Geological Survey
Telephone: 812-855-76
Shows data points that represent water wells contained in the Lithologic database, which is derived from the water well database of the Indiana Department of Natural Resources.

OTHER STATE DATABASE INFORMATION

RADON

State Database: IN Radon
Source: Department of Health
Telephone: 317-233-7148
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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Appendix E

Web Soil Survey Map and Unit Description

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Monroe County, Indiana

Parking Lot - 216 S. College Ave.

April 6, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Soil Map

Map Scale: 1:316 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 4 9 18 27

Feet: 0 15 30 60 90

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Monroe County, Indiana
Survey Area Data: Version 29, Sep 2, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ua	Udorthents, loamy	0.4	100.0%
Totals for Area of Interest		**0.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Monroe County, Indiana

Ua—Udorthents, loamy

Map Unit Setting

National map unit symbol: kz9d
Elevation: 340 to 1,020 feet
Mean annual precipitation: 40 to 46 inches
Mean annual air temperature: 52 to 57 degrees F
Frost-free period: 170 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, loamy and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Loamy

Properties and qualities

Depth to restrictive feature: More than 80 inches
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: Unranked

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Appendix F

Sanborn Fire Insurance Maps

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

216 S. College - Parking Lot

216 S. College Ave

Bloomington, IN 47404

Inquiry Number: 7300512.3

April 06, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/06/23

Site Name:

216 S. College - Parking Lot
216 S. College Ave
Bloomington, IN 47404
EDR Inquiry # 7300512.3

Client Name:

BCA Environmental Consultants
7202 E 87th St., Suite 110
Indianapolis, IN 46256
Contact: Rod Manny

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PO # NA

Project Parking Lot

Maps Provided:

1963
1947
1927
1913
1907
1898
1892
1887
1883

Sanborn® Library search results

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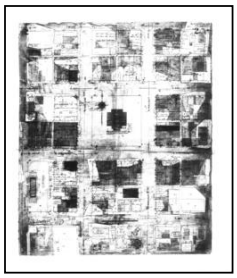
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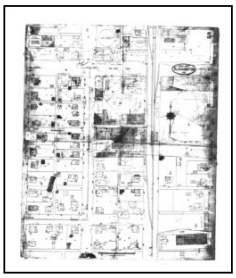
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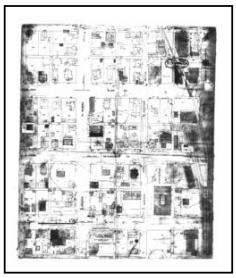
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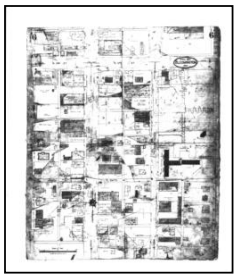
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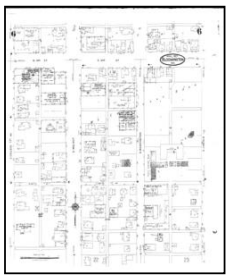
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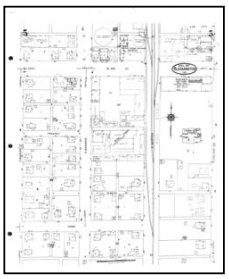
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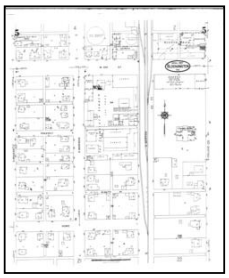
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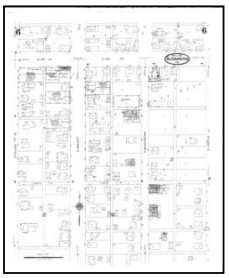
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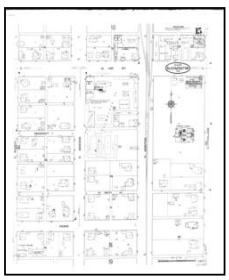
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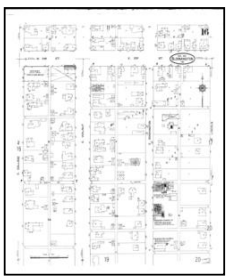
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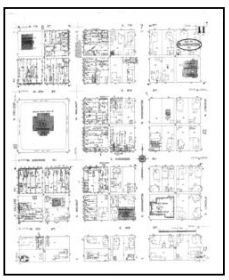
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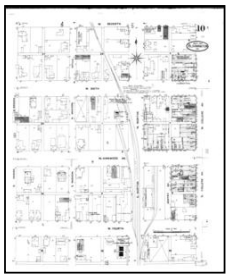

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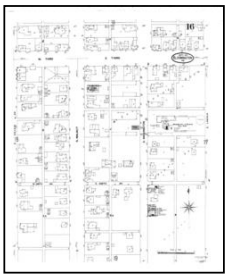

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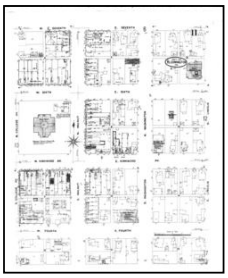

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Volume 1, Sheet 7
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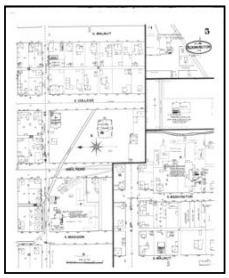

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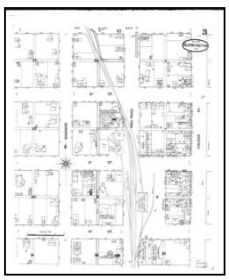
1892

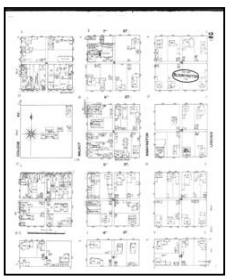
Volume 1, Sheet 3
1892

Volume 1, Sheet 2
1892

1887 Source Sheets



Volume 1, Sheet 3
1887



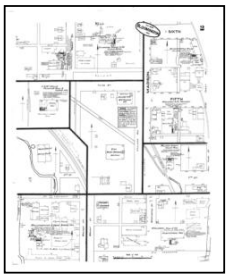
Volume 1, Sheet 2
1887

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1883 Source Sheets

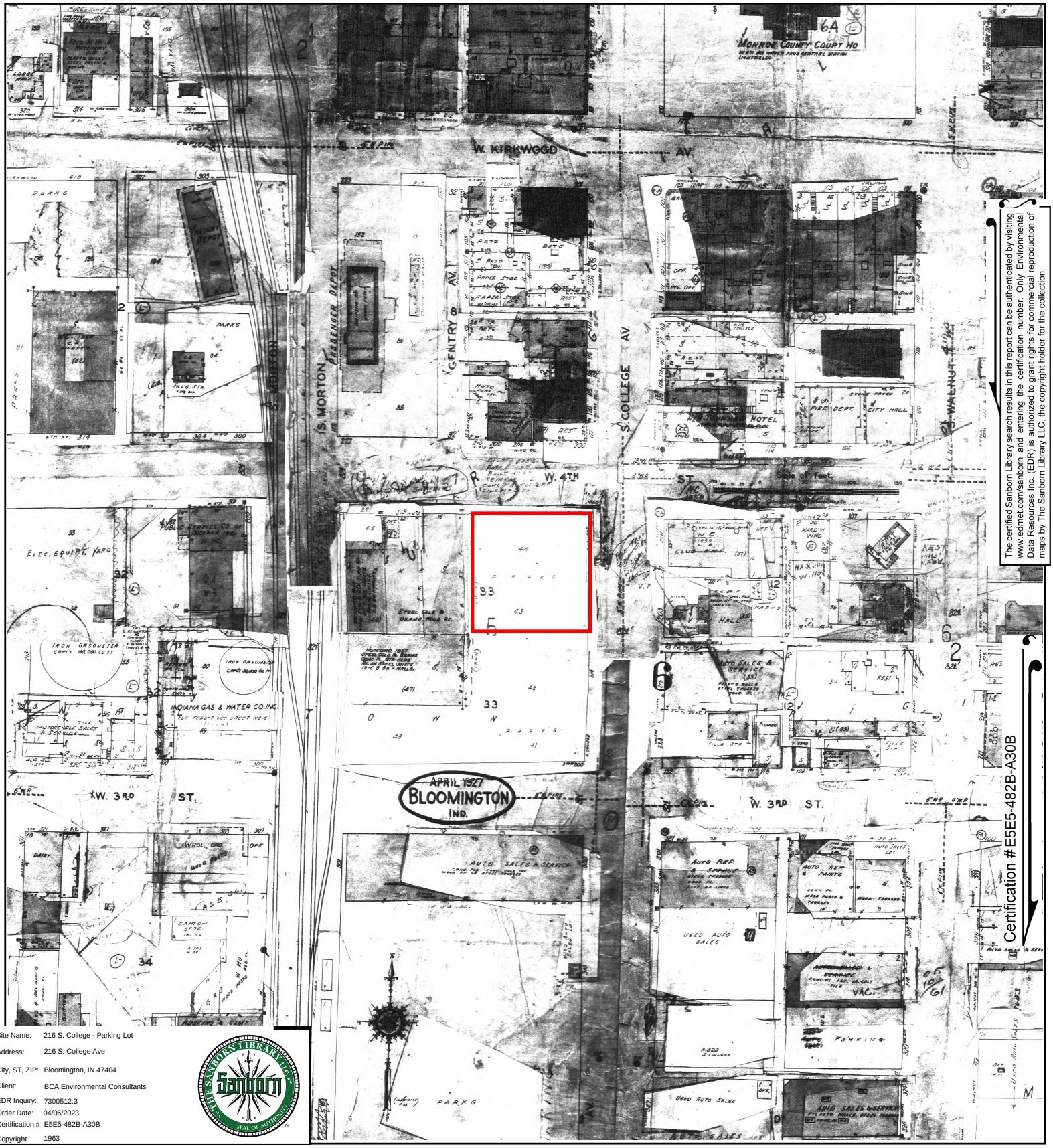
Volume 1, Sheet 1
1883



Volume 1, Sheet 2
1883

Certified Sanborn® Map

1963



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Address:	216 S. College Ave
City, ST, ZIP:	Bloomington, IN 47404
Client:	BCA Environmental Consultants
EDR Inquiry:	7300512.3
Order Date:	04/06/2023
Certification #	E5E5-482B-A30B
Copyright	1963

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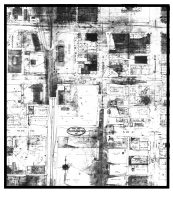

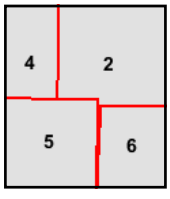

Volume 1, Sheet 6
Volume 1, Sheet 4
Volume 1, Sheet 5
Volume 1, Sheet 2

0 Feet 150 300 600

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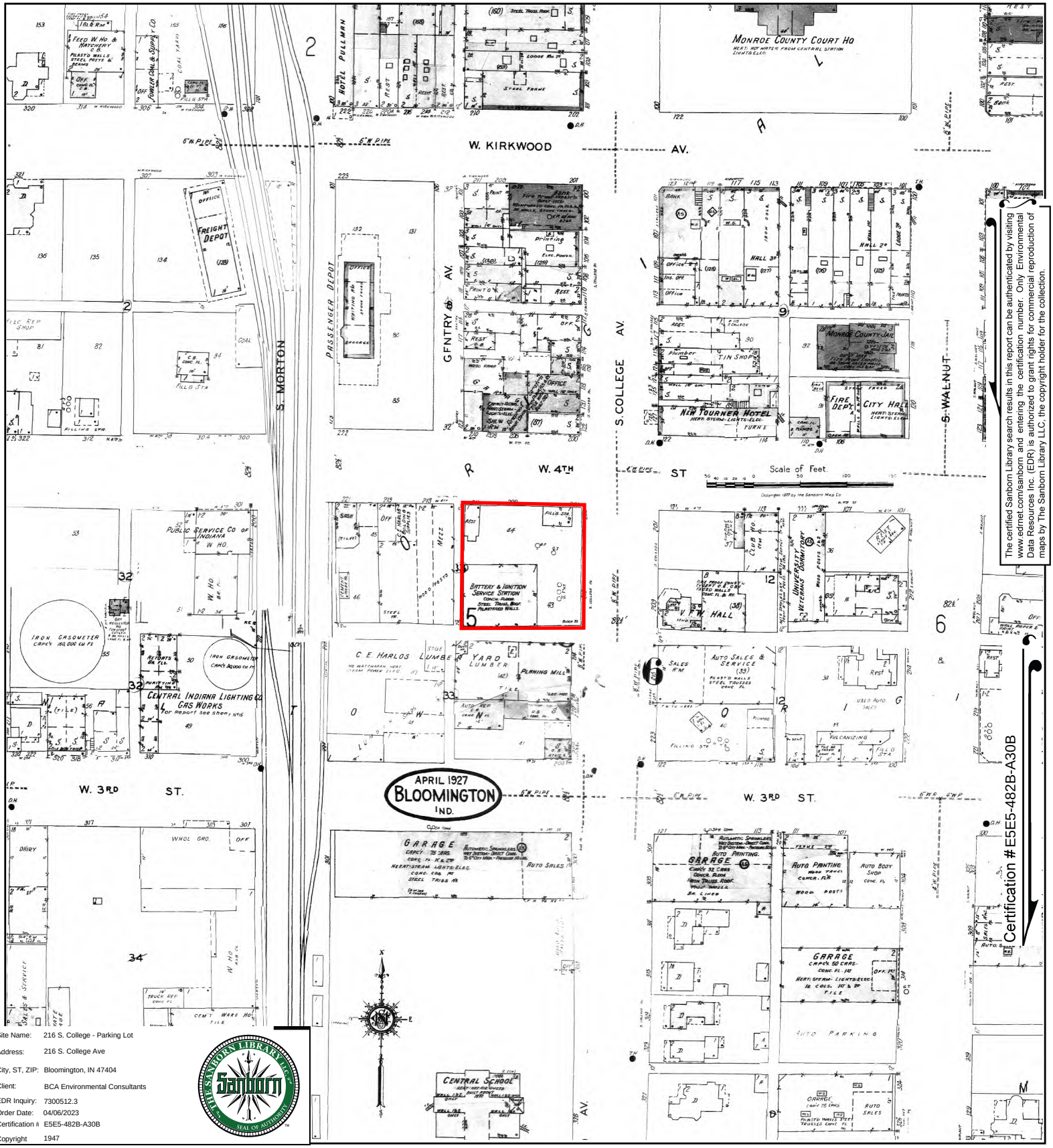

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EDR Inquiry:	7300512.3
Order Date:	04/06/2023
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Copyright	1947

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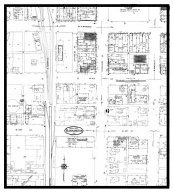

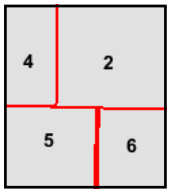

Volume 1, Sheet 2
Volume 1, Sheet 5
Volume 1, Sheet 4
Volume 1, Sheet 6

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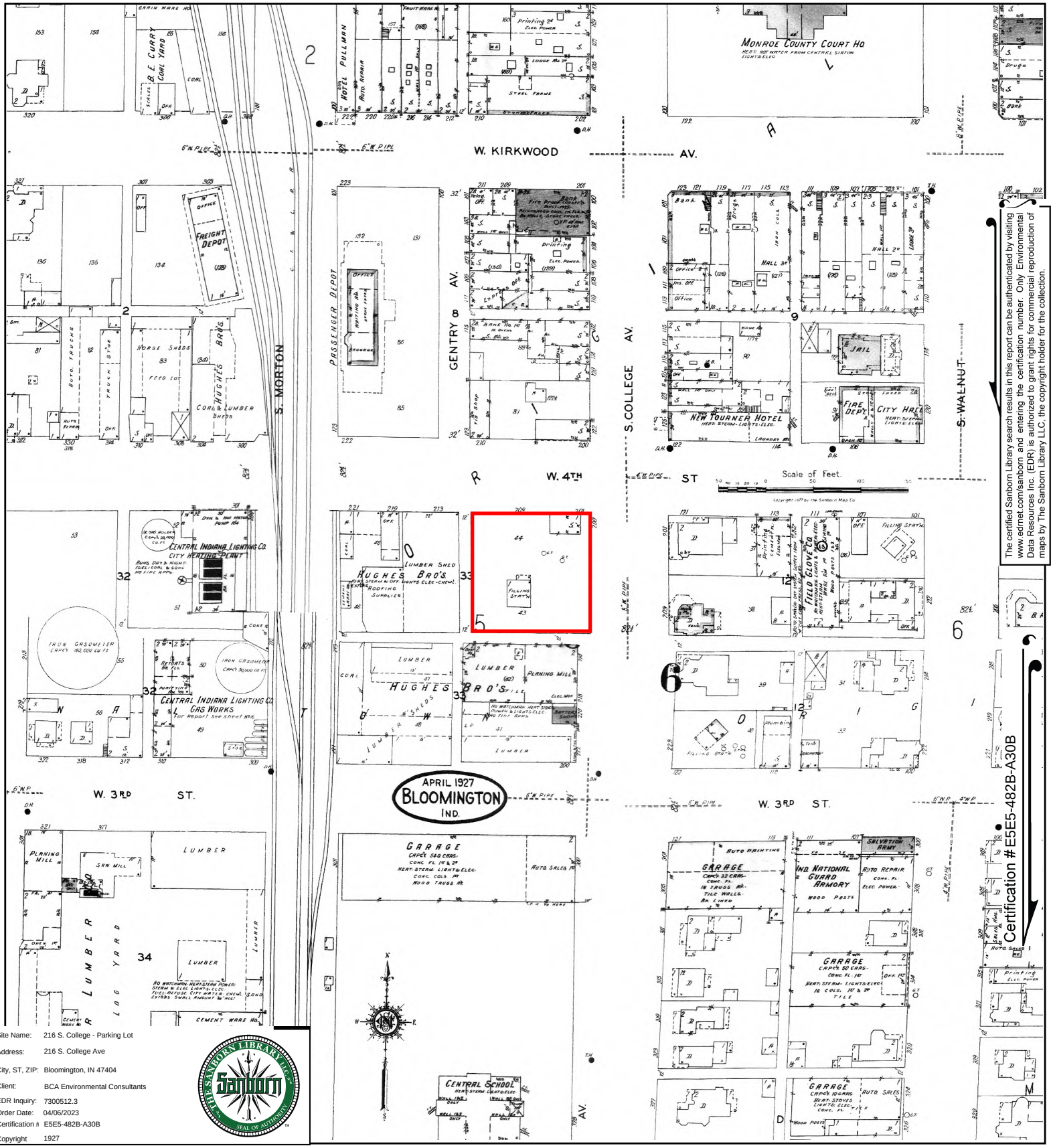

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Certification #:	E5E5-482B-A30B
Copyright	1927

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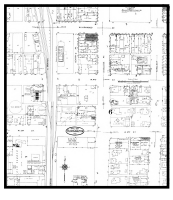

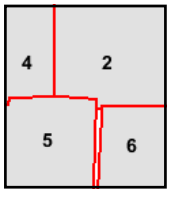

Volume 1, Sheet 6
Volume 1, Sheet 4
Volume 1, Sheet 5
Volume 1, Sheet 2

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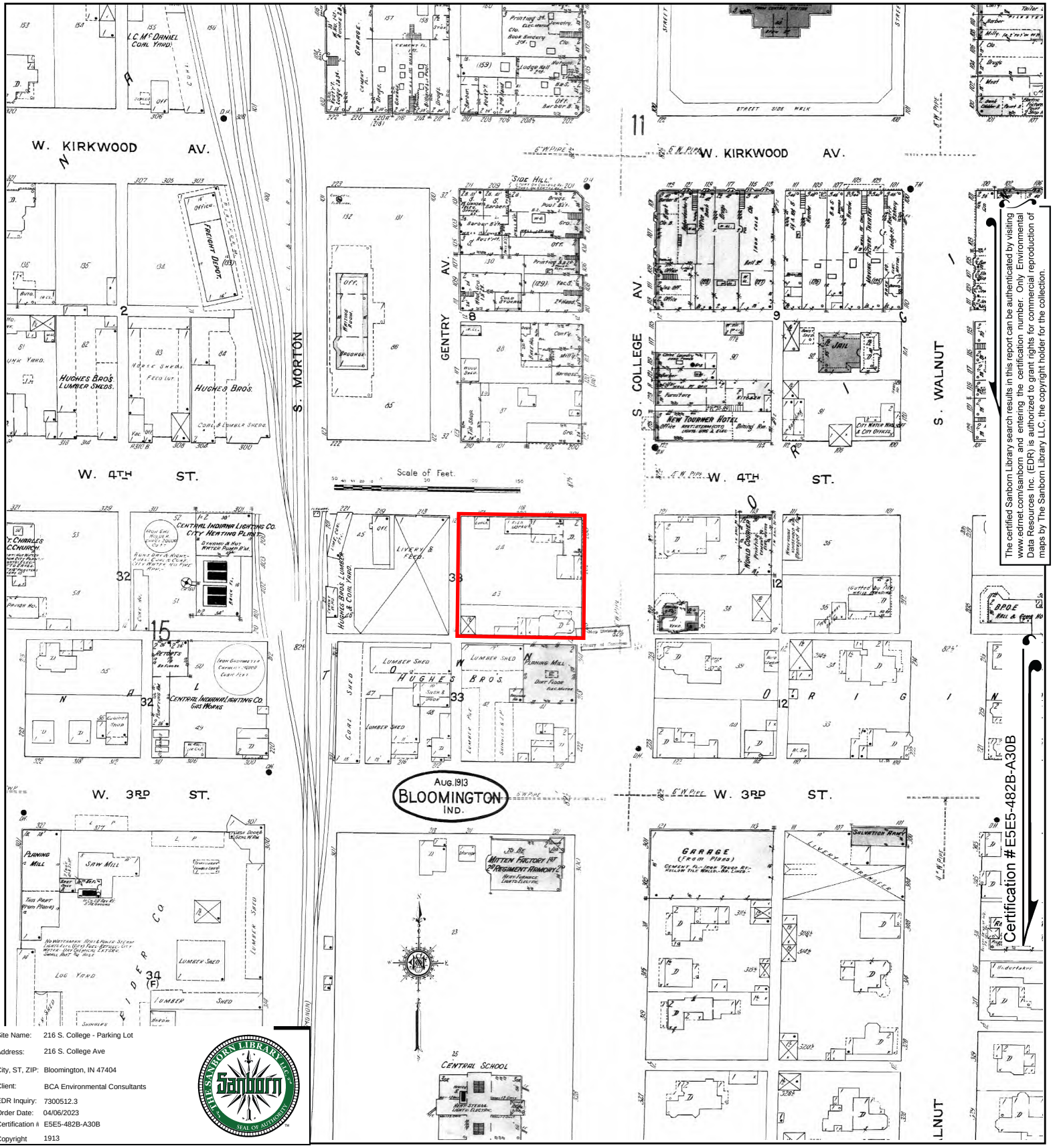

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Copyright	1913

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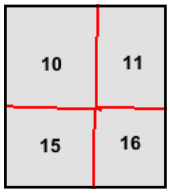

Volume 1, Sheet 10
Volume 1, Sheet 11
Volume 1, Sheet 16
Volume 1, Sheet 15

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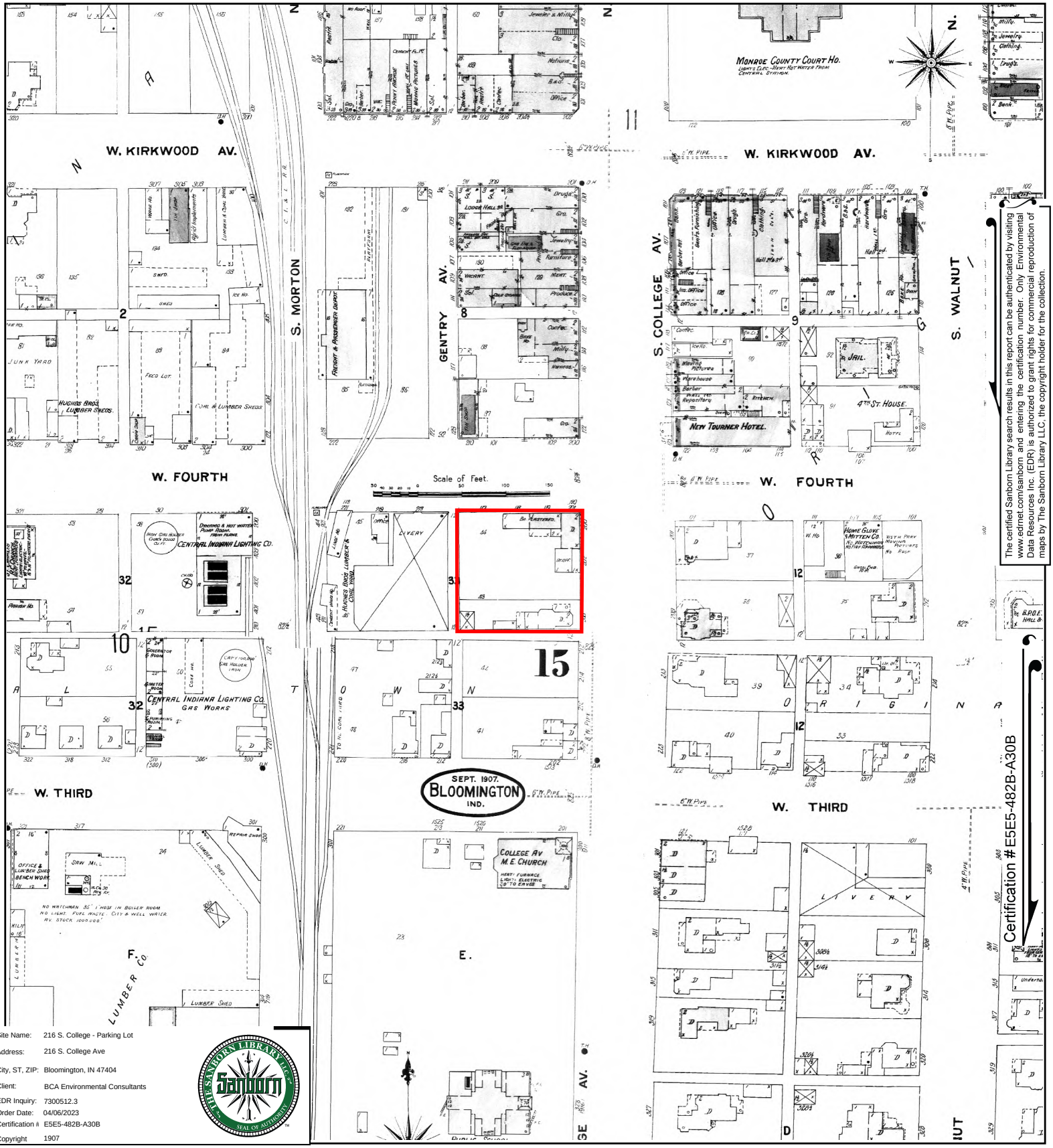

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EDR Inquiry:	7300512.3
Order Date:	04/06/2023
Certification #:	E5E5-482B-A30B
Copyright	1907

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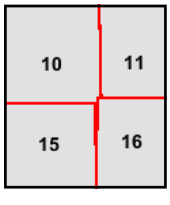

Volume 1, Sheet 11
Volume 1, Sheet 16
Volume 1, Sheet 15
Volume 1, Sheet 10

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Copyright	1898

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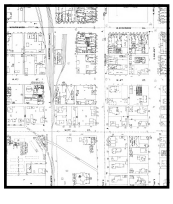

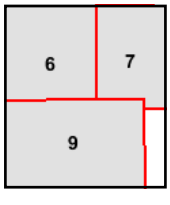

Volume 1, Sheet 9
Volume 1, Sheet 7
Volume 1, Sheet 6

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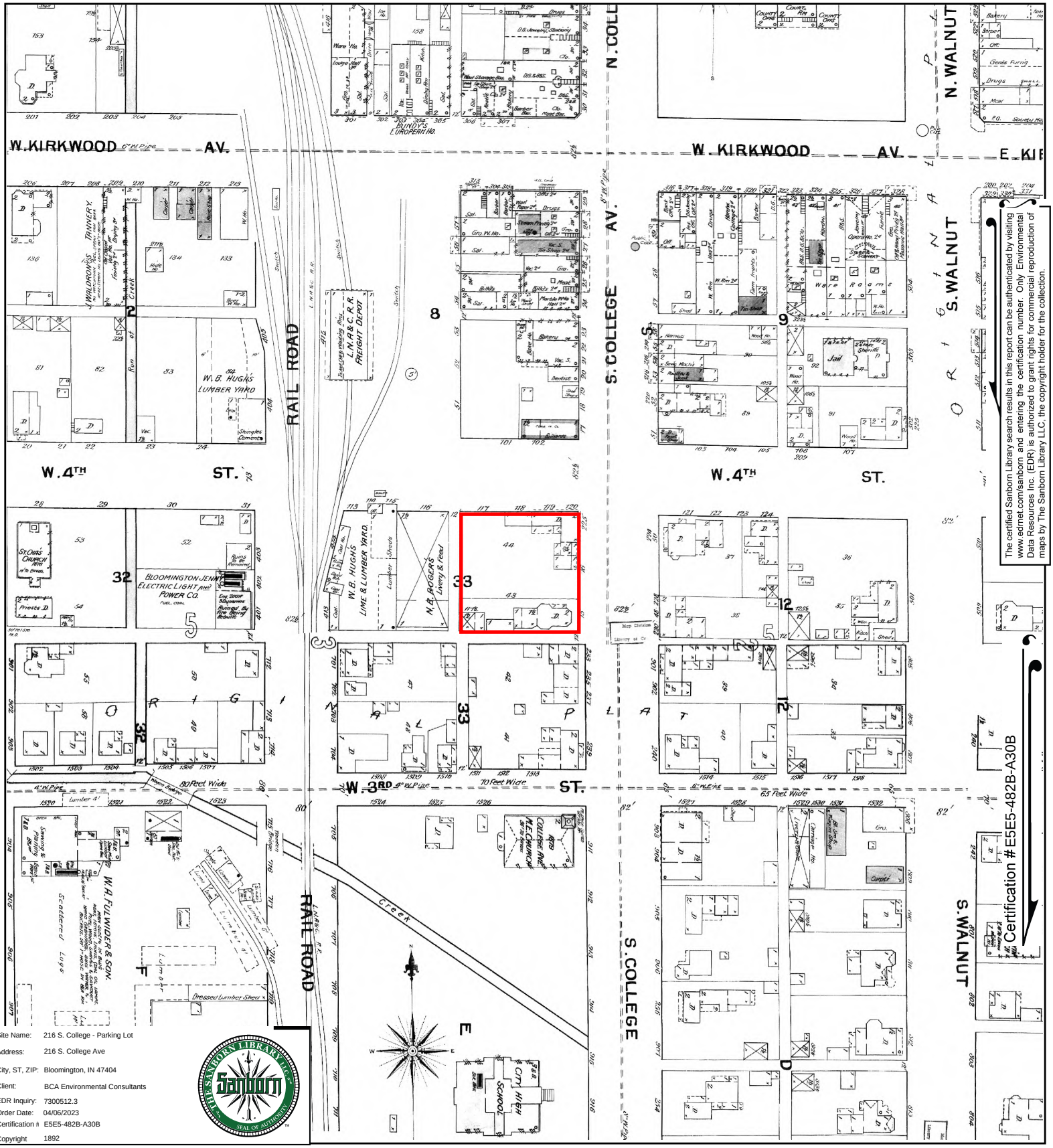
1892



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Certification #:	E5E5-482B-A30B
Copyright	1892

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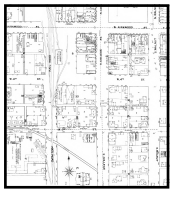

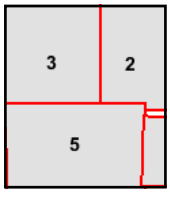

Volume 1, Sheet 2
Volume 1, Sheet 3
Volume 1, Sheet 5

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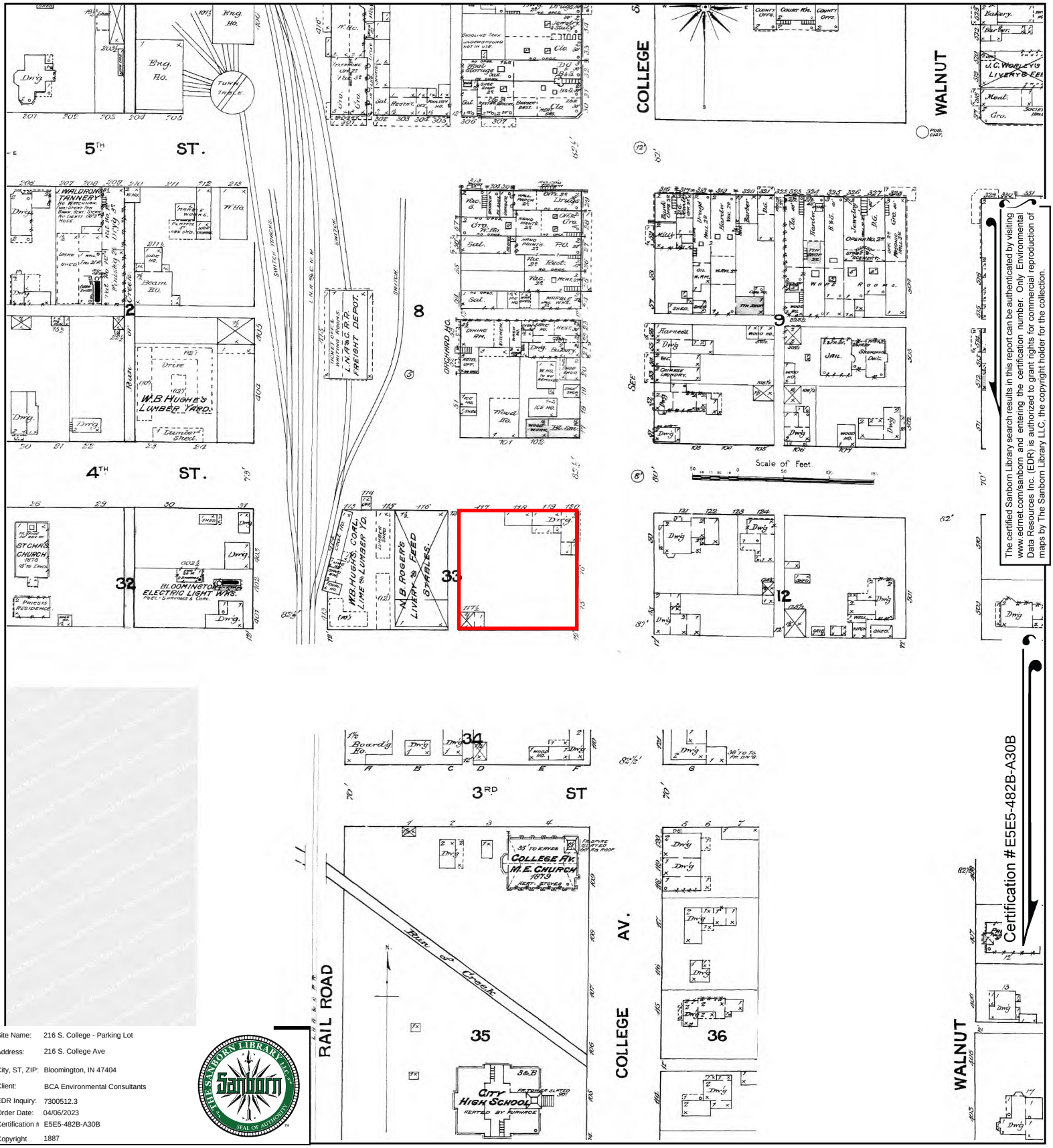

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Order Date:	04/06/2023
Certification #	E5E5-482B-A30B
Copyright	1887

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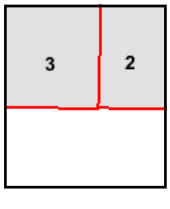

Volume 1, Sheet 2
Volume 1, Sheet 3

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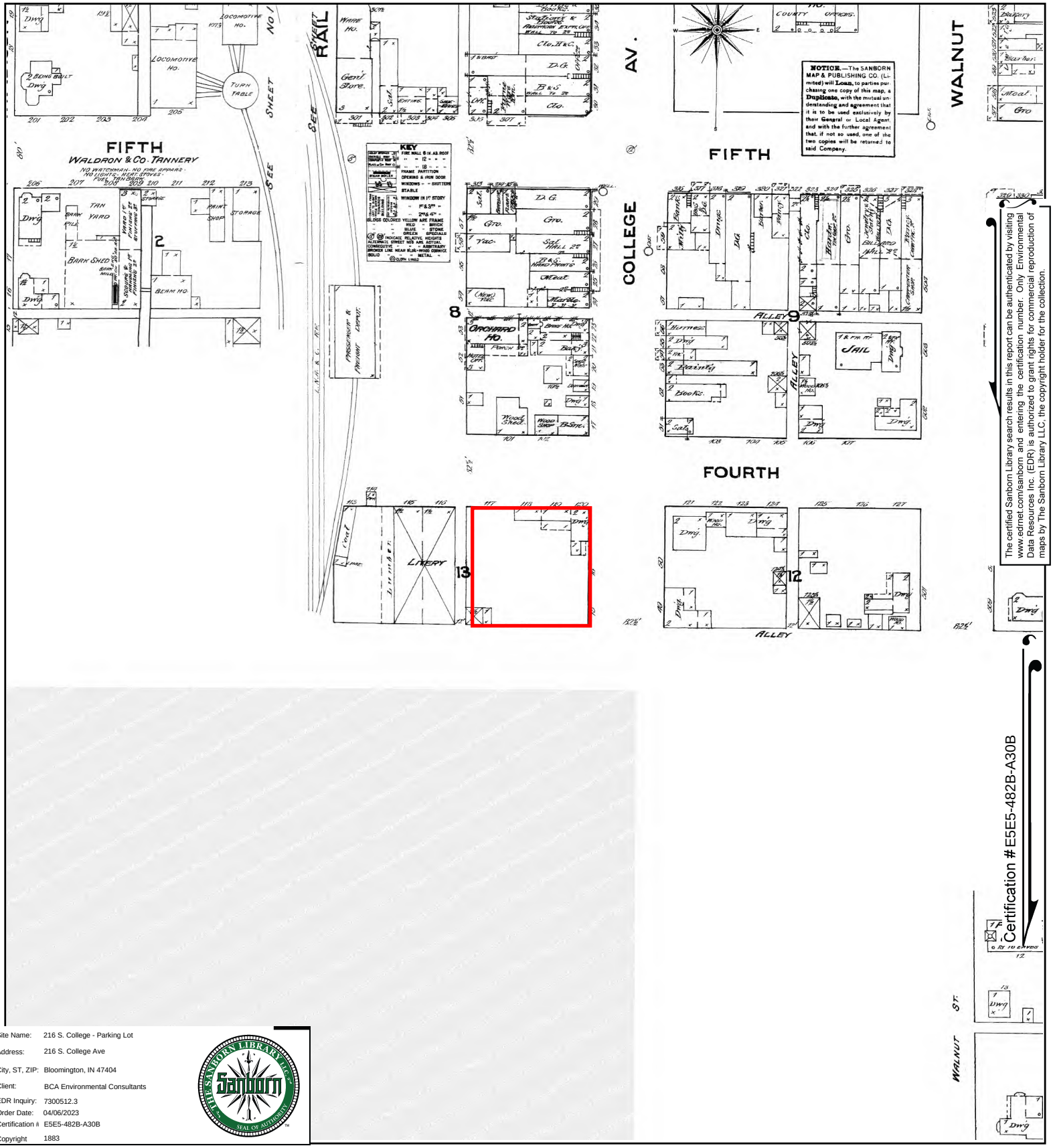

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Copyright	1883

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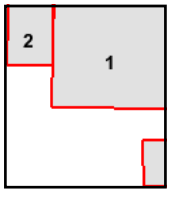

Volume 1, Sheet 2
Volume 1, Sheet 1

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N

Appendix G

Historical Aerial Photographs

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

216 S. College - Parking Lot

216 S. College Ave

Bloomington, IN 47404

Inquiry Number: 7300512.11

April 06, 2023

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EDR Aerial Photo Decade Package

04/06/23

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216 S. College - Parking Lot
216 S. College Ave
Bloomington, IN 47404
EDR Inquiry # 7300512.11

Client Name:

BCA Environmental Consultants
7202 E 87th St., Suite 110
Indianapolis, IN 46256
Contact: Rod Manny

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Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Acquisition Date: April 05, 1998	USGS/DOQQ
1992	1"=500'	Flight Date: March 16, 1992	USGS
1986	1"=500'	Flight Date: November 22, 1986	NHAP
1983	1"=500'	Flight Date: April 16, 1983	USGS
1977	1"=500'	Flight Date: May 09, 1977	USGS
1967	1"=500'	Flight Date: January 09, 1967	USGS
1965	1"=500'	Flight Date: April 29, 1965	USGS
1955	1"=500'	Flight Date: March 01, 1955	USGS
1952	1"=500'	Flight Date: September 25, 1952	USGS
1946	1"=500'	Flight Date: October 27, 1946	USGS
1941	1"=500'	Flight Date: December 09, 1941	USGS
1939	1"=500'	Flight Date: July 12, 1939	USDA

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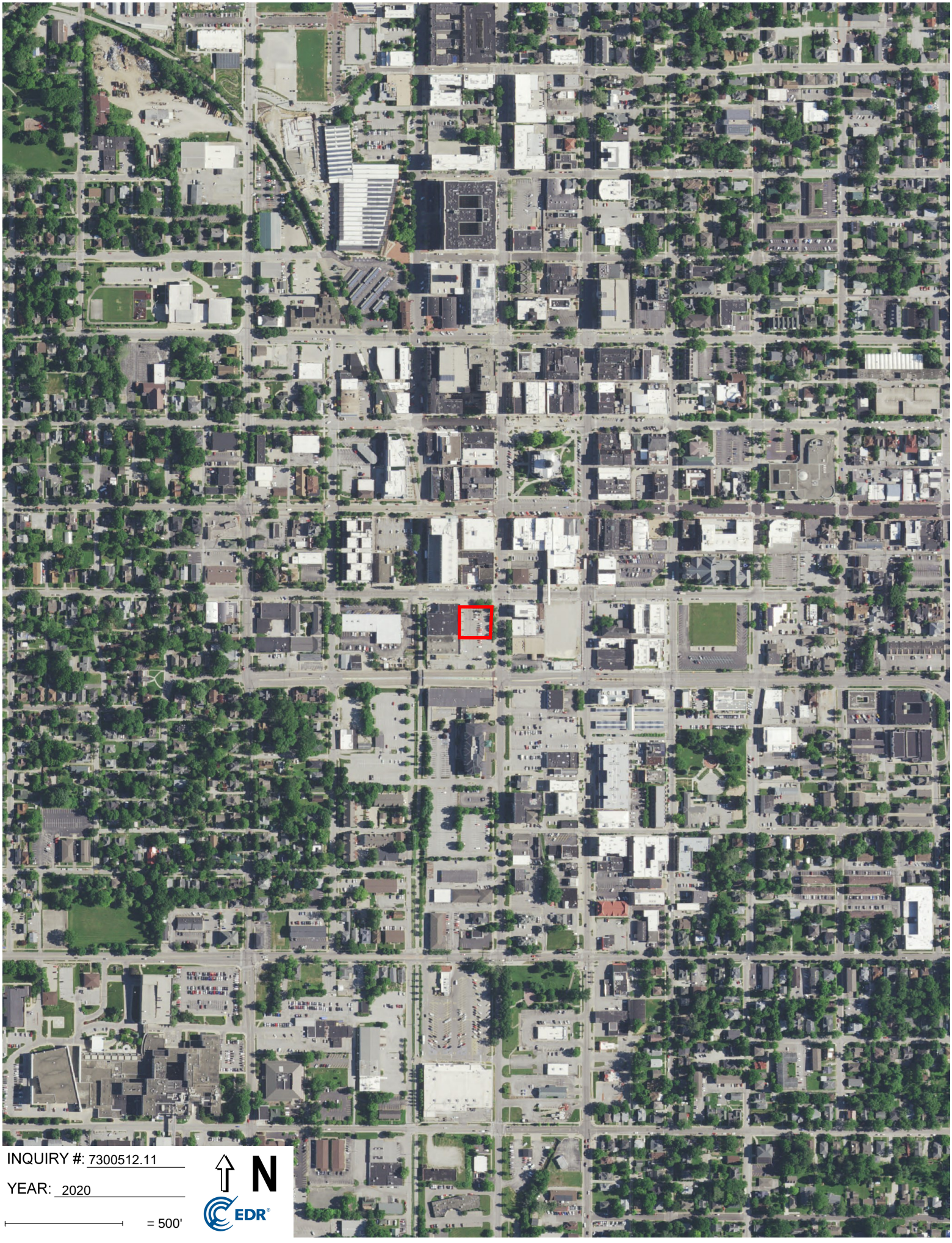
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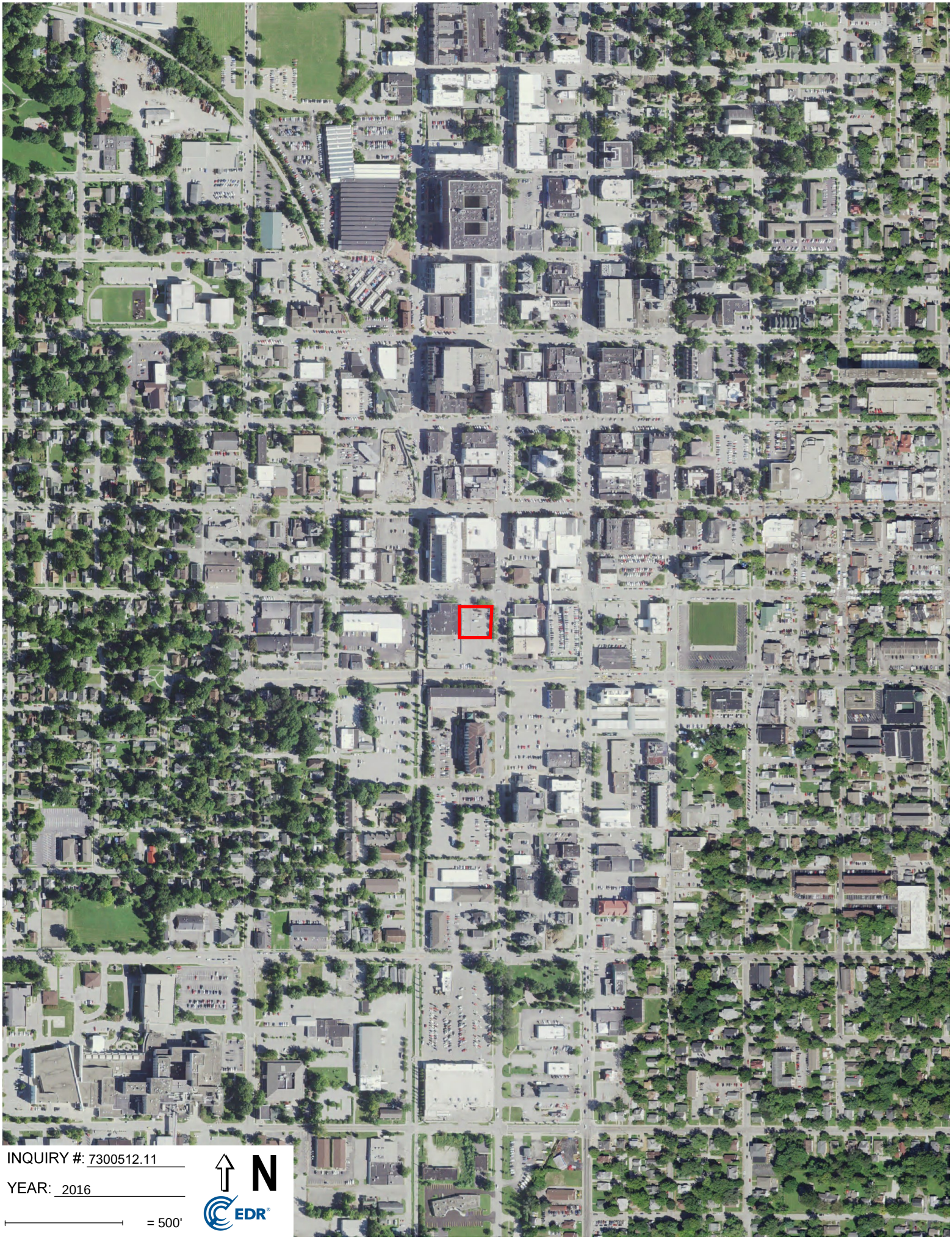
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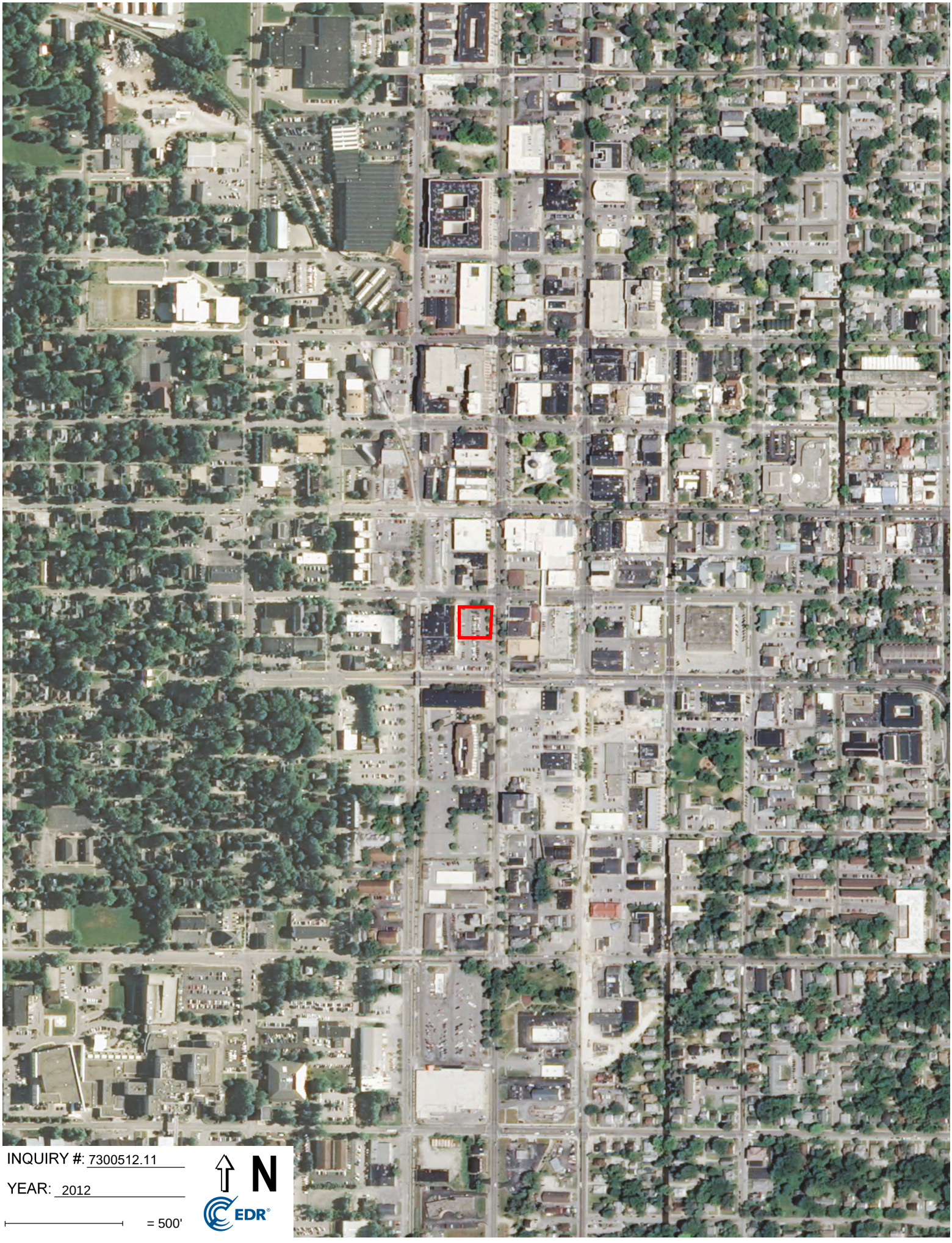
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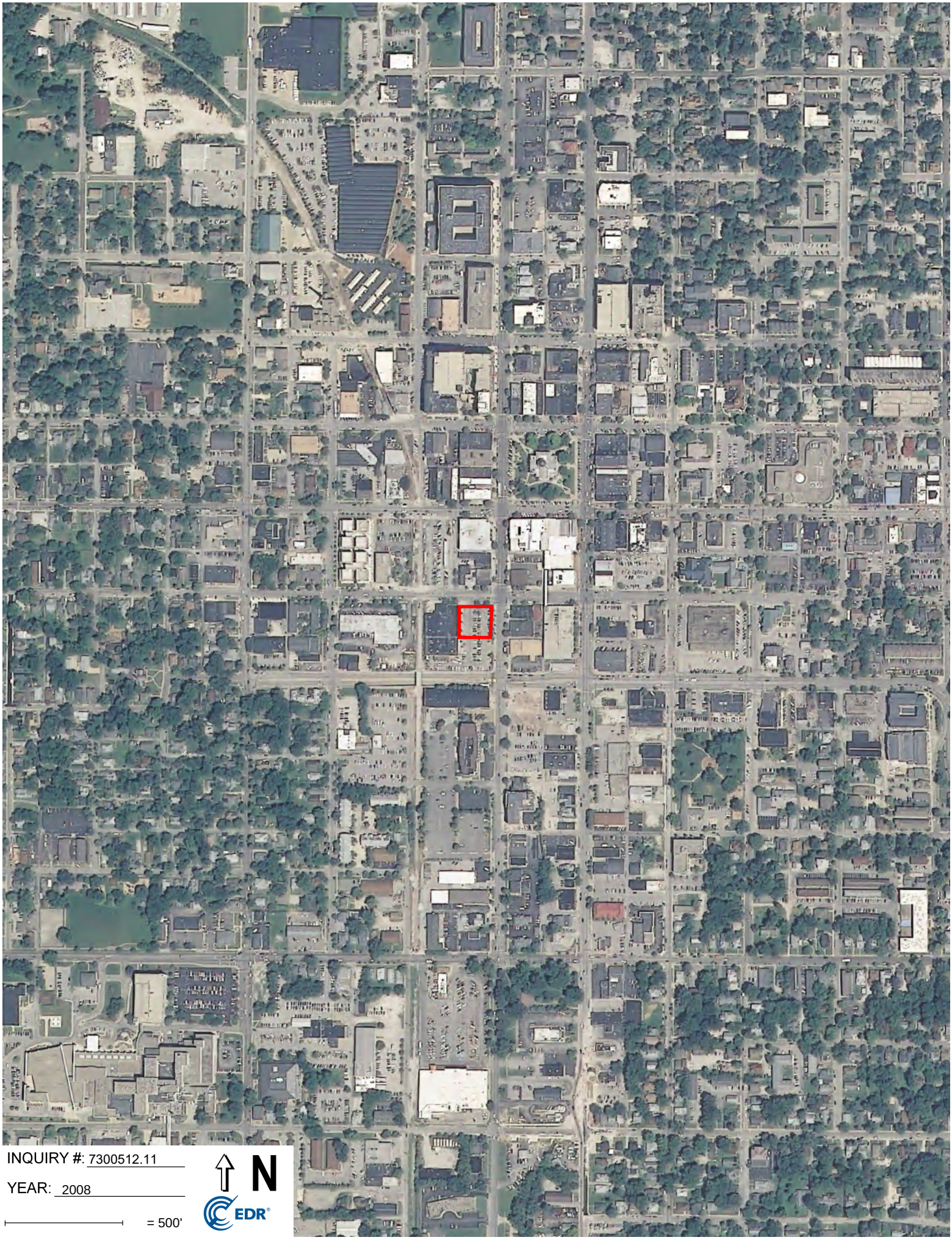
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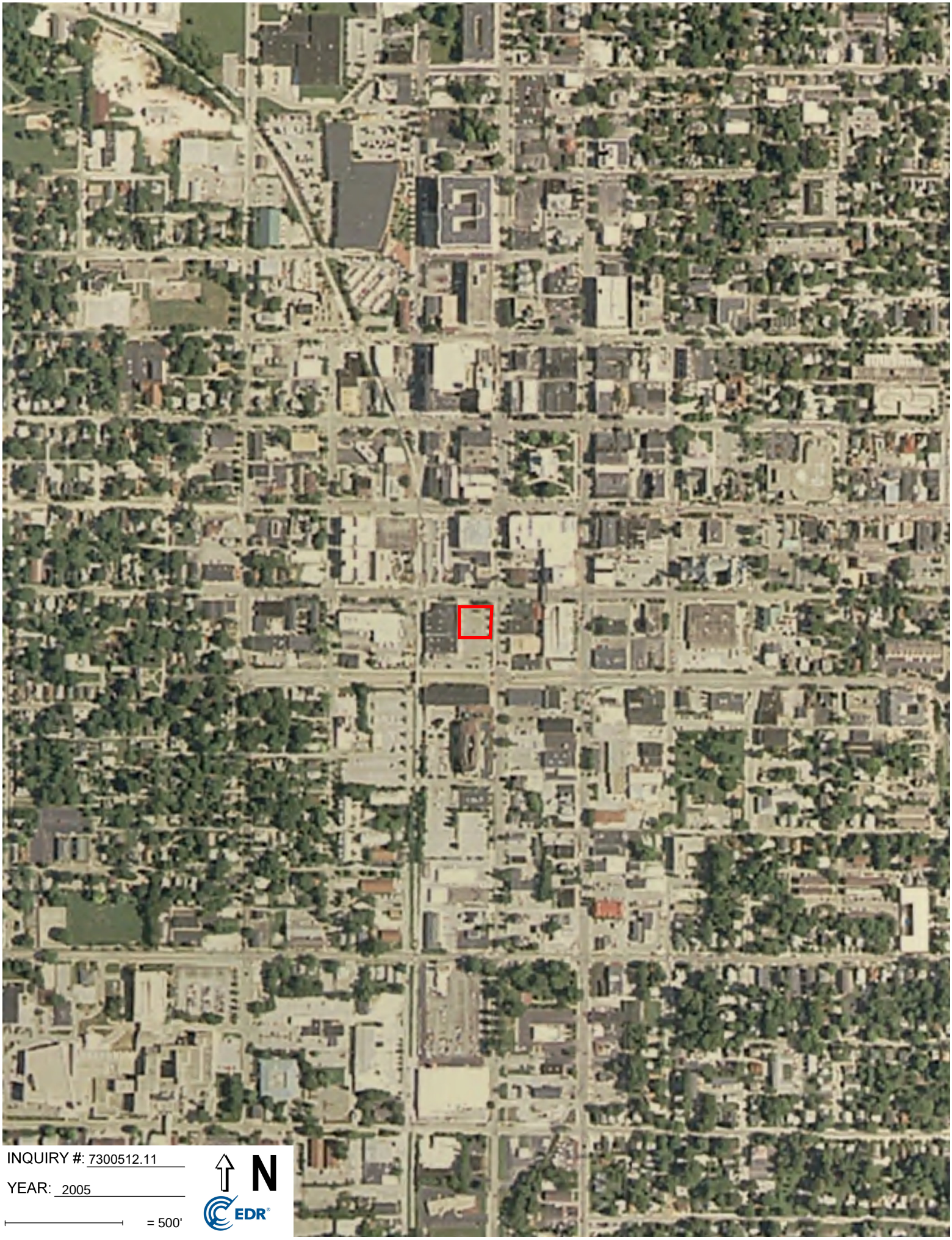
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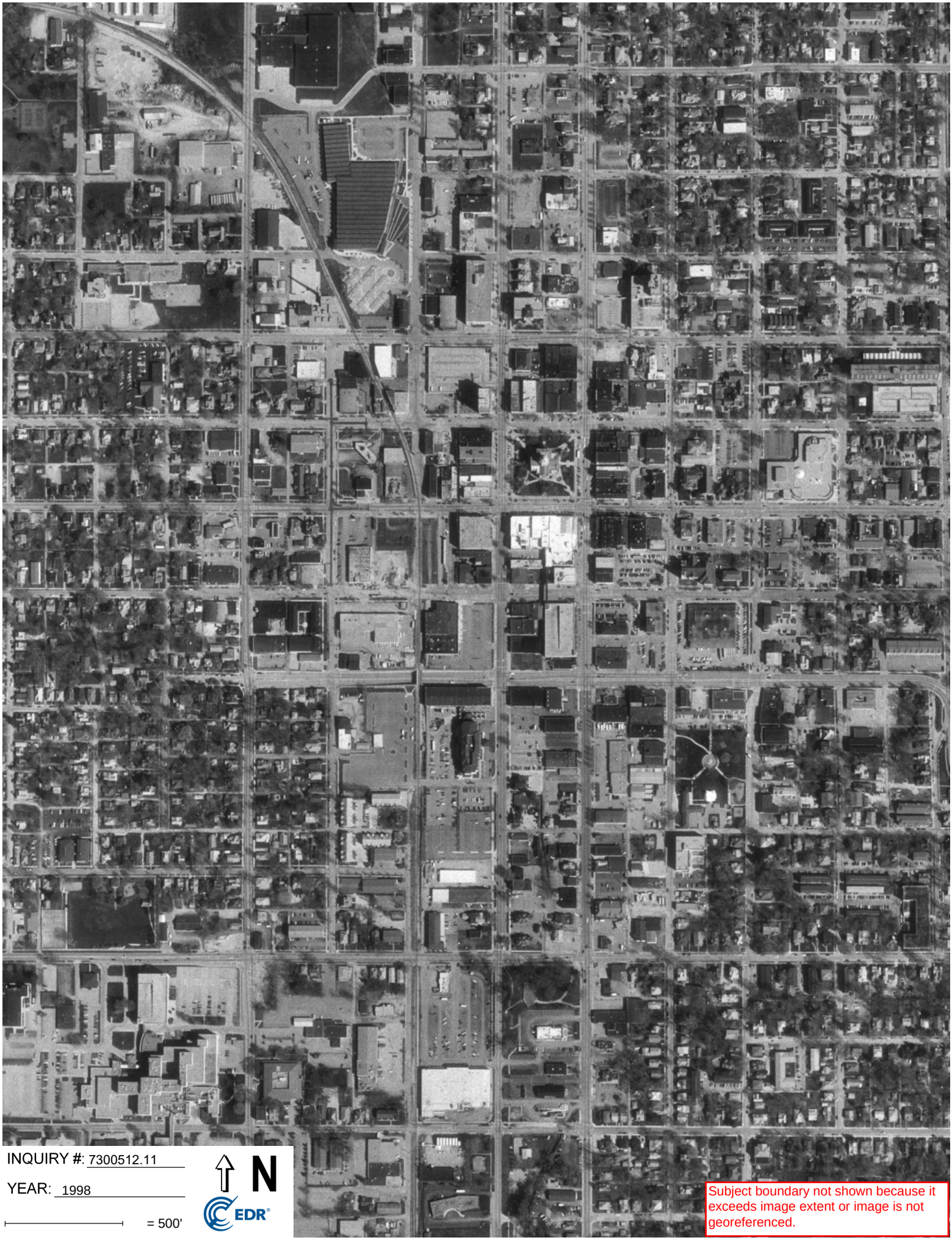

INQUIRY #: 7300512.11

YEAR: 1998

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EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7300512.11

YEAR: 1992

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EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

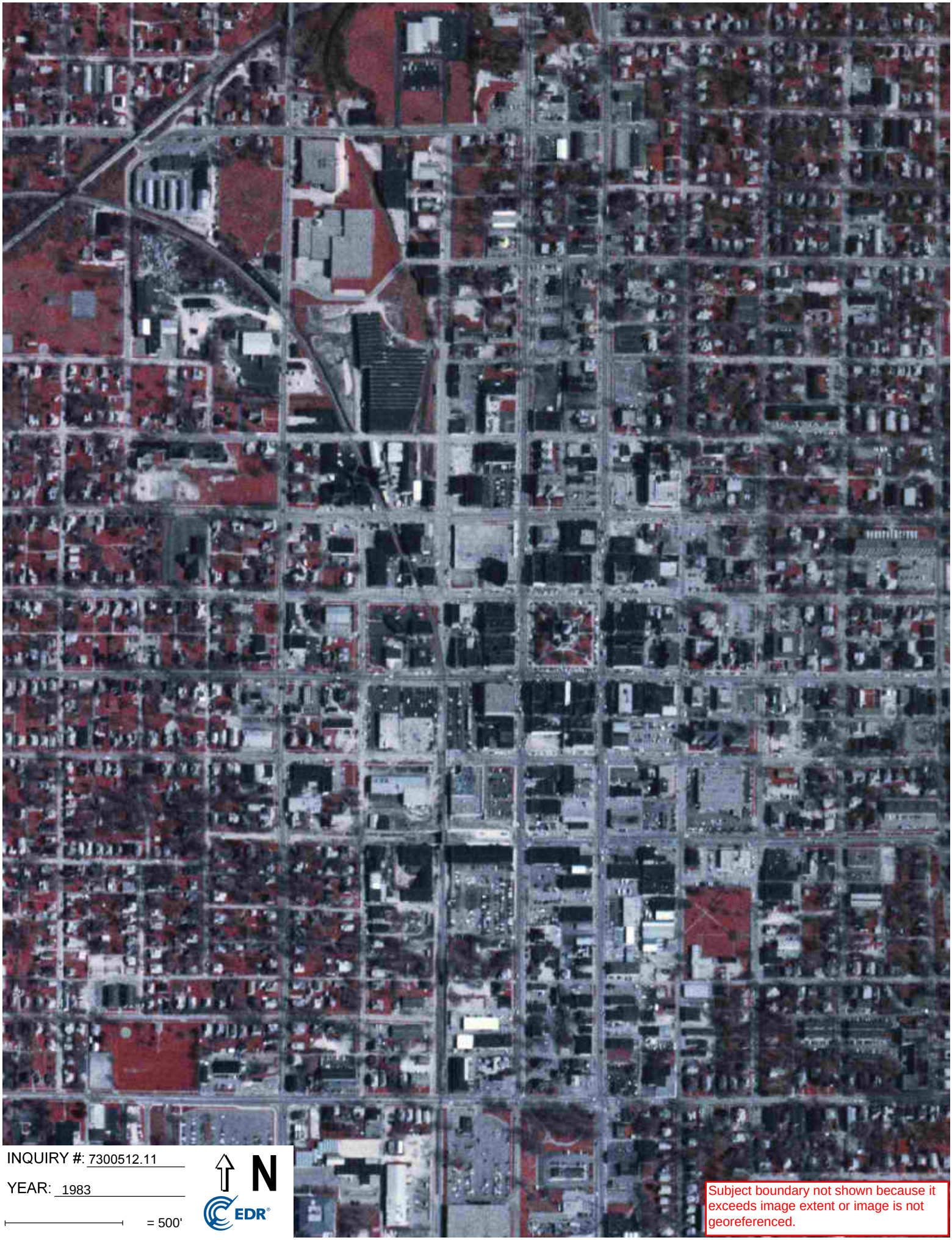
INQUIRY #: 7300512.11

YEAR: 1986

= 500'

N

EDR



INQUIRY #: 7300512.11

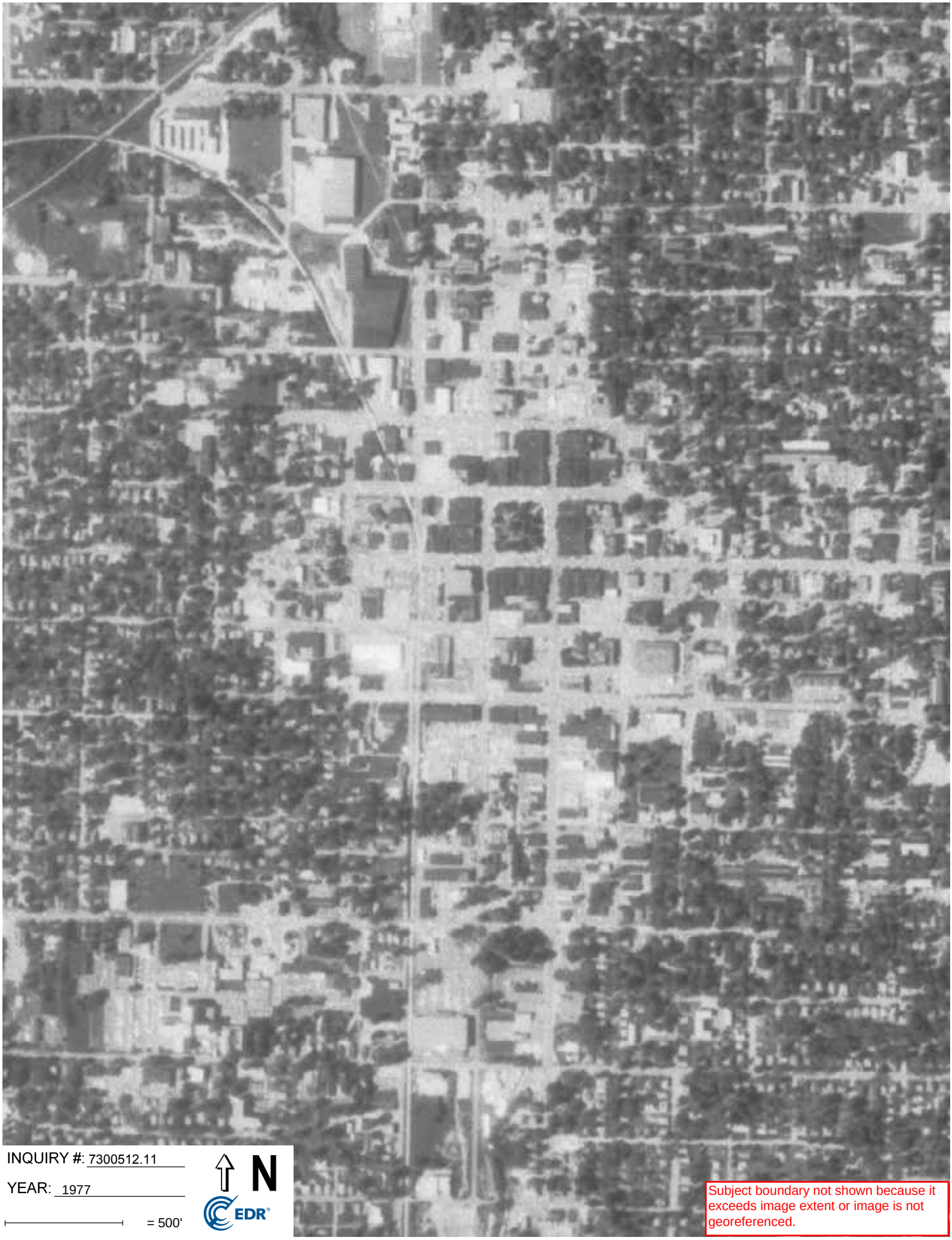
YEAR: 1983

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 7300512.11

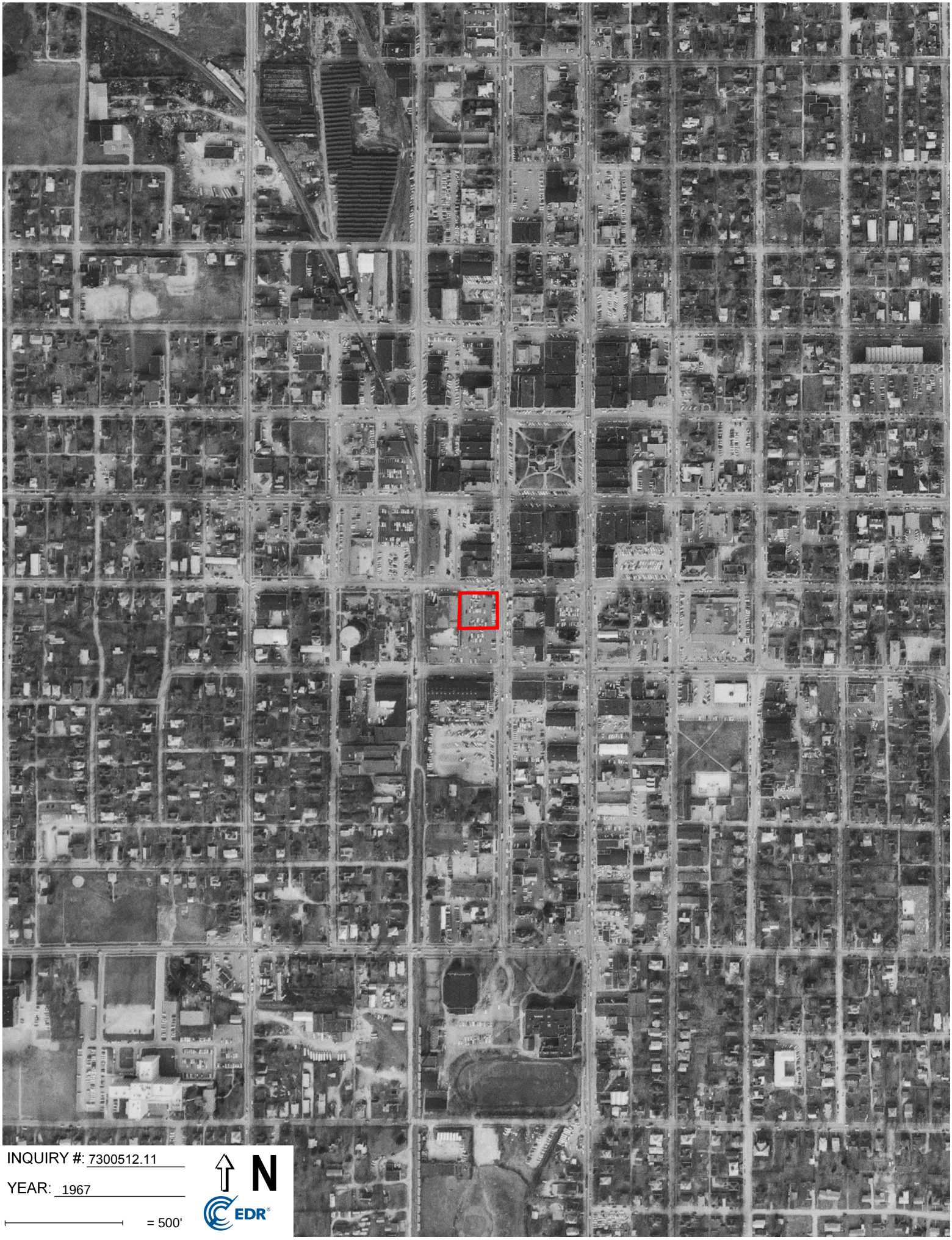
YEAR: 1977

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



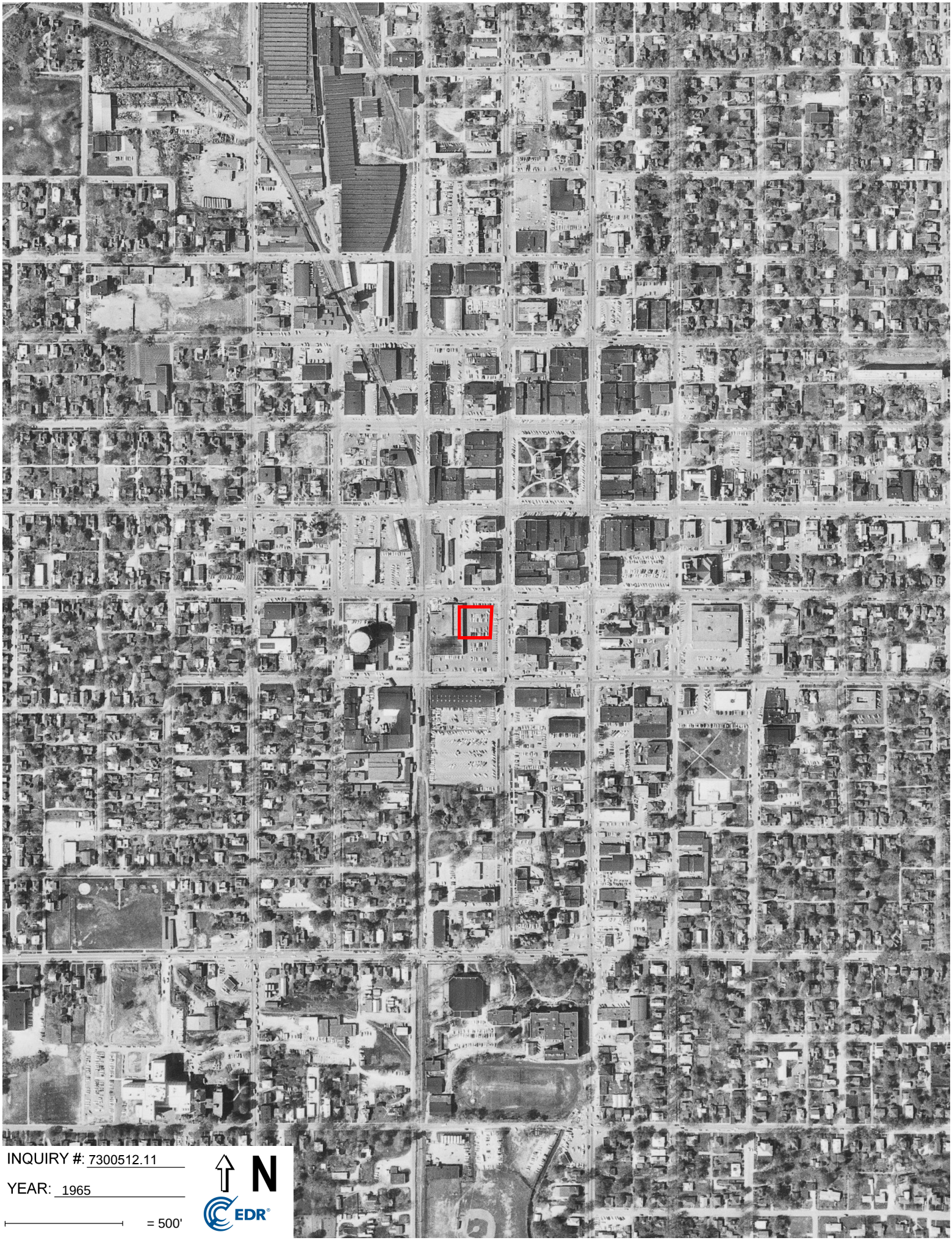
INQUIRY #: 7300512.11

YEAR: 1967

= 500'

N

EDR



INQUIRY #: 7300512.11

YEAR: 1965

= 500'

N

EDR

INQUIRY #: 7300512.11

YEAR: 1955

= 500'

N

EDR

INQUIRY #: 7300512.11

YEAR: 1952

= 500'

N

EDR

INQUIRY #: 7300512.11

YEAR: 1946

= 500'

N

EDR

INQUIRY #: 7300512.11

YEAR: 1941

= 500'

N

EDR

INQUIRY #: 7300512.11

YEAR: 1939

= 500'

N

EDR

Appendix H

City Directory Search

College Square – Sicks Parking Lot
216 S. College Avenue
Bloomington, Indiana 47404

216 S. College - Parking Lot
216 S. College Ave
Bloomington, IN 47404

Inquiry Number: 7300512.5
April 10, 2023

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information
1986	☑	☑	Polk's City Directory
1981	☑	☑	Polk's City Directory
1976	☑	☑	Polk's City Directory
1971	☑	☑	Polk's City Directory
1968	☑	☑	Polk's City Directory
1964	☑	☑	Polk's City Directory
1960	☑	☑	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

216 S. College Ave
Bloomington, IN 47404

Year	*CD Image*	*Source*

S COLLEGE AVE

2020	pg A1	EDR Digital Archive
2017	pg A3	Cole Information
2014	pg A6	Cole Information
2010	pg A8	Cole Information
2005	pg A10	Cole Information
2000	pg A12	Cole Information
1995	pg A14	Cole Information
1992	pg A17	Cole Information
1986	pg A20	Polk's City Directory
1986	pg A21	Polk's City Directory
1981	pg A24	Polk's City Directory
1981	pg A25	Polk's City Directory
1976	pg A28	Polk's City Directory
1976	pg A29	Polk's City Directory
1971	pg A31	Polk's City Directory
1971	pg A32	Polk's City Directory
1968	pg A35	Polk's City Directory
1968	pg A36	Polk's City Directory
1968	pg A37	Polk's City Directory
1968	pg A38	Polk's City Directory
1964	pg A41	Polk's City Directory
1964	pg A42	Polk's City Directory
1964	pg A43	Polk's City Directory
1960	pg A46	Polk's City Directory
1960	pg A47	Polk's City Directory
1960	pg A48	Polk's City Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
W 4TH ST		
2020	pg. A2	EDR Digital Archive
2017	pg. A5	Cole Information
2014	pg. A7	Cole Information
2010	pg. A9	Cole Information
2005	pg. A11	Cole Information
2000	pg. A13	Cole Information
1995	pg. A16	Cole Information
1992	pg. A19	Cole Information
1986	pg. A22	Polk's City Directory
1986	pg. A23	Polk's City Directory
1981	pg. A26	Polk's City Directory
1981	pg. A27	Polk's City Directory
1976	pg. A30	Polk's City Directory
1971	pg. A33	Polk's City Directory
1971	pg. A34	Polk's City Directory
1968	pg. A39	Polk's City Directory
1968	pg. A40	Polk's City Directory
1964	pg. A44	Polk's City Directory
1964	pg. A45	Polk's City Directory
1960	pg. A49	Polk's City Directory

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

S COLLEGE AVE 2020

100	CHASE BANK
	COMMUNITY FOUNDATION-BLMNGTN
	CONNOR REPORTING
	HYLANT GROUP
	SOUTHWEST CENTRAL INDIANA
	SPALDING LAW LLC
112	ALLISON TOEDEBUSCH
	ASYA SHARROW
	BIKESMITHS BICYCLE SHOP
	LESLIE PORTER
114	WADES FULL SVC TAILORING
116	PRESTALGIA PRODUCTIONS LLC
	XCEL PERFORMANCE
118	POSH BOUTIQUE
120	BENT
	CALEB MILLER
122	ONE PAIR OF DEUCES LLC
123	INDIANA LIMESTONE CO
	THOMAS QUIGLEY
200	SIMDATA TECHNOLOGIES CORP
	SONIA CHAN
	STAMPFLI ASSOCIATES CPA'S
201	ATM
	GERAL RHOADE
	SERENDIPITY MARTINI BAR
202	WILD COW HOLDINGS LLC
207	BACK DOOR
209	ATLAS BALLROOM
211	GERMAN AMERICAN BANK
	TIME & TEMPERATURE SVC
214	INDIANA LEGAL SVC
222	GRANT PROPERTIES
226	BUNGER & ROBERTSON
302	DOWNTOWN BLOOMINGTON COMMN INC
	INDIANA COMMERCIAL BOARD-RLTRS
	MARKEY'S RENTAL & STAGING
	MONROE CONVENTION CTR
310	ASHFORD T R S POOL II LLC
	ATM
	COURTYARD BY MARRIOTT BLMNGTN
	FRANK ROWE
	HOWARD WHITE
345	ALYSSA HODGE
	EIGHT MEDICAL
	GARRETT WELCH
	GRACE JIMENEZ
	LAUREN DARROUZET
	LOFTS ON COLLEGE
	MARK HOLLOWAY
	MICHELLE CURRY

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W 4TH ST 2020

108	BLOOMINGOUT
	JODI PEACOCK
	WFHB
109	BEST TASTE BLOOMINGTON
308	WONDERLAB MUSEUM-SCI HEALTH
314	ARCHIE BRADLEY
	BERNARD FRAGA
	BRIELLE LOEWINSOHN
	DANIELLE SIENA
	HARAM KIM
	JAMIE JONES
	KEVIN MCNEIL
	MARTA MILLER
	MINLANG CHUANG
	PETER GAUSS
	TATIANA RATERMAN
	ZACHARY STUCKER

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2017

100	CHASE BRANCH
	COMMUNITY FOUNDATION
	I BTC INC EQUIP SUPV
	SHIEL SEXTON
	SPALDING LAW LLC
	WILLIAM J SPALDING ESQ
112	BIKESMITHS BICYCLE SHOP
	TOEDEBUSCH, ALLISON L
116	ENVIROCLEAN
	SUMMIT REALTY GROUP
	SUPERIOR BUSINESS CLEANING
118	GRAHAM SECURITY & PATROL
120	BENT
123	INDIANA LIMESTONE
200	DANA BEMENT CPA
	DUANE L VAUGHT CPA
	MICHAEL E MEISSNER CPA
	SIMDATA TECHNOLOGIES CORP
	STAMPFLI ASSOCIATES CP AS
201	SERENDIPITY MARTINI BAR
202	HILLIARD LYONS
207	THE BACK DOOR
209	THE ATLAS BALLROOM
211	TIME & TEMPERATURE SERVICE BY UNITED
214	INDIANA LEGAL SERVICES INC
216	KRC BANQUET & CATERING
222	GRANT PROPERTIES
226	ANDREW T BUNGER ATTY
	BRIAN R DRUMMY ATTY
	BUNGER & ROBERTSON
	HOLLY M HARVEY ATTY
	JAMES L WHITLATCH ATTY
	JESSICA L MERKLE ATTY
	JOHN W RICHARDS ATTY
	JOSEPH D OCONNOR ATTY
	KEVIN A HALLORAN ATTY
	LARA K CUSTSHALL ATTY
	MARGARET M FRISBIE ATTY
	MARYANNE PELIC ATTY
	SAMUEL R ARDERY ATTY
	STEVEN K EMERY ATTY
	THOMAS BUNGER ATTY
302	BLOOMINGTON CONVENTION CENTER
	MARKEYS RENTAL & STAGING
310	COURTYARD BLOOMINGTON
	MARRIOTT HOTELS & RESORTS
335	MONROE COUNTY DEMOCRATIC PARTY
345	ALLEN, JONATHAN
	EIGHT MEDICAL
	MIDTOWN LOFTS

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2017 (Cont'd)

345	QUANDT, JOSHUA
	SMAGA, CARRIE
403	VICTOR SETTLE JEWELRY
407	BLOOMING SKIN CARE
414	MY SISTERS CLOSET

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 2017

108	WFHB
111	LIN, YONG
	ZHANG, LU
308	WONDERLAB MUSEUM OF SCIENCE HEALTH &
314	GIZE, RAYMOND W
	GRAY, IDA
	HERMAN, ADAM J
	HUBBORD, MARTHA
	MCNEIL, KEVIN B
	OBER, PATRICK D
	POOLE, STEVEN J
	ROBERTELLO, THOMAS
	SCHULTZ, FREDERICK
	SCRIVNER, OLGA B
	SIENA, DANIELLE S
	SUTLEY, CASSANDRA L
	WYATT, CATHLEEN O
412	PERSIMMON INN
415	STATE BEAUTY SUPPLY
416	AMETHYST HOUSE
	BURATTI, AARON
500	FARMERS INSURANCE
502	STRAIGHT 2YOURDOOR
	THE TAILORED FIT
508	THE TAILORED FIT
518	CENTRAL WESLEYAN CHURCH

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2014

100	CHASE
	CHASE BANK
	IBTC INC EQUIP SUPV
	SHIEL SEXTON
112	BIKESMITHS BICYCLE SHOP BLOOMINGTON
	TOEDEBUSCH, ALLISON L
114	CARTRIDGE WORLD
116	ENVIROCLEAN
	SUPERIOR BUSINESS CLEANING
	WELDON, KEVIN
118	GRAHAM SECURITY & PATROL
120	BENT
122	TREASURE CHEST HOBBIES
200	MEISSNER MICHAEL E CPA
	NAVY RECRUITING STATION
	SIMDATA TECHNOLOGIES CORP
	STAMPFLI ASSOCIATES CPA
	VAUGHT DUANE L CPA
201	SERENDIPITY MARTINI BAR
202	HILLIARD LYONS
207	BACK DOOR THE
209	ATLAS BALLROOM THE
211	UNITED COMMERCE BANK
214	INDIANA LEGAL SERVICES INC
216	AND CATERING KRC BANQ
	KRC BANQUET & CATERING
222	GRANT PROPERTIES
	MCCOY DOUG REAL ESTATE
226	BUNGER & ROBERTSON ATTYS
302	CONVENTION CENTER OF MONROE COUNTY B
	MARKEYS RENTAL & STAGING
310	COURTYARD BLOOMINGTON
343	OCCUPANT UNKNOWN,
345	EIGHT MEDICAL
	KRAUSE, KAITLIN
	LOOMER, ANDREW S
	MIDTOWN LOFTS
	MOLDENHAUER, MARY R
	PARK, JONG
	WANG, TIANFAN
	WILCOX, JULIA M
349	THOMAS, MICHELLE
403	VICTOR SETTLE JEWELRY
409	MARQUIS PROPERTY MANAGEMENT
	PROPERTY MGNT MARQUISE
	ROSS JOSEPH A ATTORNEY AT LAW
	SAVICH LAW OFFICE
414	SOLE SENSATIONS
	STIDD RAYMOND DP

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 2014

108	WFHB
	WFHB STATION
109	OCCUPANT UNKNOWN,
111	AFFAIRS OF THE SUN CATERING
	DUNN, BRADLEY
	HAWKINS, SARA N
212	AMUSED CLOTHING
214	MATERIAL PLANE
308	WONDERLAB MUSEUM OF SCIENCE HEALTH &
314	BREYER, AMY
	DUMICH, ANDREW
	HAYES, MATTHEW
	HERMAN, ADAM J
	JOHNSON, BENJAMIN W
	MCGINNIS, MICHEAL
	ROSENWINKEL, BRADLEY M
	RUSNAK, J
	RUUHELA, KEVIN B
	SCRIVNER, OLGA B
	STEPHEN, DEWART
324	STUEHRENBERG, JUSTIN
416	AMETHYST HOUSE
	MYLIN, MARK
420	OCCUPANT UNKNOWN,
500	EADS KEVIN AGENCY
	TIME & TIDE TATTOO
502	H P PRODUCTS
	HECKARD, RITA P
	STRAIGHT 2YOURDOOR
	TAILORED FIT THE
505	MONROE COUNTY AUXILIARY POLICE
520	LUCAS, J A
522	EASTERBROOK, ROBERT J

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2010

100	HYLANT GROUP
112	BIKESMITHS BICYCLE SHOP
	TOEDEBUSCH, ALLISON L
114	CARTRIDGE WORLD
116	CHOCOLATE EMPORIUM
	KEVIN WELDON LAW OFFICE
	KIRK, SMITH
	SOCIAL BUTTERFLY
118	LOTUS MORTGAGE
120	LONDON DOG
122	TREASURE CHEST HOBBIES
200	STAMPFLI ASSOCIATES
202	HILLIARD LYONS
211	UNITED COMMERCE BANCORP
	UNITED COMMERCE BANK
214	INDIANA LEGAL SVC INC
216	KRC CATERING
222	GRANT PROPERTIES
302	BLOOMINGTONMONROE CNTY CNVNTN
	MARKEYS RENTAL & STAGING
310	COURTYARDBLOOMINGTON
335	COUNTRY RUFFLES & VICTORIAN
345	BUNGER, KELLI
349	THOMAS, MICHELLE
403	VICTOR SETTLE JEWELRY
407	T JONES APPRAISALS INC
409	BEST TITLE CO LLC
	BLOOMINGTON BOARD OF REALTORS
	STEWART TITLE CO
414	SOLE SENSATIONS
416	EXECUTIVE DETAILING

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 2010

111	AFFAIRS OF THE SUN CATERING
212	AMUSED CLOTHING
214	MATERIAL PLANE
314	ARCHIE, BRAD
	BEAVER, RENEE M
	BOBST, R
	CHAPMAN, CINDI N
	CORNELIUS, MATT R
	GRIFFITH, CHARLES
	GRUBER, CHRISTIANE
	HAVERCROFT, KATHE M
	HESHELMAN, MARCY L
	HUGHES, DEBORAH A
	LIU, CHIEN P
	MILLER, TIM T
	MOLYNEUX, KATE
	NEWTON, MARK A
	RATERMAN, SAGE B
	SCRIVNER, OLGA B
410	GREEN BEAN
412	FRATIANNI, PAUL S
413	ZONINO, KATIE
415	THOMPSON BEAUTY & BARBER SUPL
500	HARRISON INSURANCE
502	TARTER, GARY A
504	RYDER
505	MONROE COUNTY AUXILIARY POLICE
508	TAILORED FIT
518	CENTRAL WESLEYAN CHURCH
520	BIEHN, MOLLY R

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2005

100	BANK ONE
	BANK ONE TRUST
112	BIKE SMITHS
	MERRELL, M C
	PHILLIPS, JOSEPH A
	VENNER, MARIE L
116	CHOCOLATE EMPORIUM THE
	HARRISON, MICK
	HEARTWOOD
	WORLDVIEW MULTIMEDIA TECHNOLOGIES LL
118	WINDFALL DANCERS INC
122	TREASURE CHEST HOBBIES
123	BLOOMINGTON INTERIORS
	DEPOSITIONS INC
	NUNN & GREENE LAW OFFICE
200	SIMDATA TECHNOLOGIES CORP
	VAUGHT DUANE L CPA
209	VETERANS OF FOREIGN WARS
211	UNITED COMMERCE BANCORP
216	CITY GRILLE
222	GRANT PROPERTIES
301	BLOOMINGTON TIRE CO INC
302	BEASLEY FOOD SERVICE
	BLOOMINGTON CONVENTION CENTER
	CLASSIC CATERING
310	COURTYARD BY MARRIOTT
	ENCORE HOTELS OF BLOOMINGTON
335	COUNTRY RUFFLES VICTORIAN LACE
	WATTERS INSURANCE AGENCY
345	TAJAK, GERMAINE A
349	MAGNOLIA ROSE INC
	THOMAS, MICHELLE
403	SIGNS NOW
405	PENDRAGON PROPERTIES INC
407	SURFACE & ASSOCIATES FINANCIAL GROUP
	T JONES APPRAISALS INC
409	BLOOMINGTON BOARD OF REALTORS INC

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 2005

108	WFHB FM
111	AFFAIRS OF THE SUN CATERING
	HAWKINS, SARA N
	XU, NANCY
214	OCCUPANT UNKNOWN,
308	OCCUPANT UNKNOWN,
	WONDERLAB MUSEUM OF SCIENCE HEALTH &
314	ACKER, CHRISTINE
	ARCHIE, BRAD
	BEAVER, RENEE
	BOBST, R
	MOLYNEUX, KATE
	OSSAKOW, IRIS
	PITCHER, BRANDON
	TRAVIS, MAKENZI L
410	OCCUPANT UNKNOWN,
412	FRATIANNI, PAUL S
415	THOMPSONS STATE BEAUTY SPLY
416	OCCUPANT UNKNOWN,
420	ZIMMERMAN, HAROLD
518	CENTRAL WESLEYAN CHURCH
520	RING, SHARI
522	EASTERBROOK, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 2000

100	BANC ONE SECURITIES CORPORATION
	BANK ONE BLOOMINGTON NA ALL DEPARTMENTS AND BRANCHE
	BANK ONE BLOOMINGTON NA SWITCHBOARD INFORMATION
	IBTC INCORPORATED EQUIP SUPV
112	BIKESMITHS BICYCLE SHOP
114	CHECK N GO
120	MORPURGO RICHARD
122	TREASURE CHEST HOBBIES
123	ARNOLD DEAN J
	DEPOSITIONS INCORPORATED
	GREENE BETSY K
	NUNN & GREENE
200	CRISIS PREGNANCY CENTER BUSINESS LINE
	FIRST UNITED METHODIST CHURCH PARENTS DAY OUT
	RECRUITING U S NAVY
201	BULLWINKLES
	RHOADE, GERRY
	SECOND STORY NIGHTCLUB
209	VETERANS OF FOREIGN WARS
216	CITY GRILLE
222	SCHEIDT DON R & COMPANY INCORPORATED
226	BEGGS, WILLIAM J
	FISCHER, SARAH M
	FRISBIE, M M
	RICHARDS, JOHN W
301	BLOOMINGTON TIRE COMPANY
	DAVIS LARRY MICHAEL
	GOODYEAR BLOOMINGTON TIRE COMPANY
302	BLOOMINGTON CONVENTION CENTER
	CLASSIC CATERING INCORPORATED
	CONVENTION CENTER OF MONROE
	DOWNTOWN BLOOMINGTON COMMISSION
310	COURTYARD BY MARRIOTT
335	ALL SEASONS CENTURY REALTORS
	CENTURY 21 ALL SEASONS REAL
	FARGO, DENISE
409	BLOOMINGTON BOARD OF REALTORS INCORPORATED
414	AAA TOWING SERVICE
	R D H LEASING

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 2000

111	BALDNER, O
	HITTMAN, ELIZA
	LESLIE & SUSANS AFFAIRS OF THE SUN CATERING
410	DIETZ, ROB
412	MCKIBBEN, DAVID
416	ELSENER, ALYCE
	HEEMSOTH, K E
	MANGAN, SHANNON C
	MULLENS, DANIEL
	SPARKS, RICK A
420	RODGERS, DENNIS
505	MONROE COUNTY AUXILIARY POLICE
506	RESCH WJ
518	CENTRAL WESLEYAN CHURCH
522	PIERSON, JOEL

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 1995

100	BANC ONE MORTGAGE CORP
	BANC ONE SECURITIES
	BANC ONE SECURITIES CORP
	IBTC INC
107	METZGER, JERRY
112	BIKESMITHS BICYCLE SHOP
	BLASE, KIRSTEN
	BULIN, KERRY
	HEILMAN, PATRICK
	KING, LAMONT JR
	SHARP, JOHN
114	UNIFORM SHOP INC
116	CS PROPERTY MGMT
	FERGUSON S L ATTY
	RYANS JEWELRY STORE
118	EASTWIND INSTRUMENT REPAIR
119	HUNG BEAUMONT
	LUNG CHEUNG RESTAURANT
120	ESTRIN, ROBERT
	MUSIC HOUSE INC
122	TREASURE CHEST HOBBY CORNER
123	BETSY K GREENE
	JOSEPH A KELLEY
	NUNN KELLEY & GREENE
	NUNN KENNETH L ATTY
145	HAYES, DEBBIE
200	AIR FORCE RECRUITNG
	CRISIS CENTER
	US ARMY RECRUITING
	US MARINE CORPS RECRUITING
	US NAVAL RECRUITING
	US PROBATION & PAROLE OFFICE
201	BULLWINKLES
	SECOND STORY NIGHTCLUB
205	EMERY, STEVEN K
	HARRELL, HAROLD A
	HEDRICK, M E
	HYBLE, DENISE S
	MORRIS, KAREN L
	SCHUMAN, WAYNE R
	STEGER, WILLIAM K
	WIBLE, PHILIP H
	WONDERLIN, LANCE W
209	VETERANS OF FOREIGN WARS
	VETERANS OF FRGN WR
211	JERRYS DIAGNOSTIC CTR INC
214	CRISIS PREGNANCY CTR
222	CARR, DARRIN L
	LIU, HELEN
	NICHOLS, MICHAEL

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 1995 (Cont'd)

222	OCONNOR, THERESA E
	PERCIFIELD, RUSSELL
	ROBINSON, JILL
301	BLOOMINGTON TIRE CO
302	CLASSIC CATERING INC
	CONVENTION CENTER OF MONROE
	MARKEYS AUDIO VISUAL
327	SPICERS AUTO SALES
335	ALL SEASONS REALTY
	CENTURY 21 REALTORS
	MCDONALD ANN RLTR
343	JERARD G RUFF MD
349	SACRED SPACE
405	EMBROIDERY EXPRESS
406	WININGER, ERIC
407	ATMA INC
409	BLOOMINGTON BOARD OF REALTORS
414	HOLT, BOB
	MONROE COUNTY TIRE & AUTO TECH
	RDH LEASING
11612	LOGICAL SOLUTIONS
	MARTY HAWK REALTORS

Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 1995

108	WFHB
111	POSITIVELY FOURTH STREET
212	FRAMEMAKERS
314	MACE FOOD STORES
410	BETRUS, ANTHONY
412	THOMPSON, CHARLES R
415	THOMPSON BEAUTY & BARBER SPLY
416	ST RAIN JUSTICE
	STRAIN, JUSTICE
420	GOFFMAN, ETHAN
504	AMERICAN MICRO
	HANE, MICHAEL R
	HOOSIER COMPUTER WAREHOUSE
505	MONROE COUNTY AUXILIARY POLICE
506	AMERICAN FAMILY INSURANCE
518	CENTRAL WESLEYAN CHURCH
520	BETHEL, W L
	MARGOTTA, MARCIA
522	OBRYAN, LISA

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 1992

100	BANC ONE SECRTIES
	BANK OF BLOOMINGTN
	IBTC INC
112	BIKESMITHS BICYCLE
	MCCOY, JAMES A
	RECYCLES BICYCLE SH
114	UNIFORM SHOP
116	CSC CREDIT SERV
	RYANS JEWELRY STORE
119	LUNG CHEUNG RESTRNT
120	REGENT BTY SALON
122	ANNS TYPING SERVICE
	TREASURE CHEST
123	DEPOSITIONS INC
	KELLEY JOSEPH A
	NUNN KELLEY &GREENE
	NUNN KENNETH L
	NUNN KENNETH L ATTY
200	U S MARINE CORP REC
	US MARINE RECRUITNG
201	BULLWINKLES
209	VETERANS FRGN WARS
	VETERANS OF FOREIGN
211	JERRYS DIAGNOSTIC
216	RELIABLE DRUG STORE
301	BLOOMINGTON TIRE CO
	DAVIS LARRY MICHAEL
	GOODYEAR TIRE CO
327	SPICERS AUTO SALES
335	ALL SEASONS RLTRS
	CENTURY 21 ALL
	DOYNE JAMES
343	RUFF JERARD G MD
344	BUCKINGHAM R E MD
349	PIGGYS GIFT SHOP
403	CARPET SHOWCASE
405	LYNN, PAT
	NORMAN, SHIRLEY
406	CONTEMPORARY HAIR
	UNEEK HAIR DESIGNS
	UNEEK HAIR DSGNS
407	DEVOL BUDDY
	HI-TECH TELECOMM
409	BLOOMINGTON BRD RLT
	WANKIER INS AGCY
410	BLOOMINGTON ACCOUNT
414	AMERICA'S 2ND CAR
	MONROE CO TIRE SVCE
	R D H LEASING
	UGLY DUCKLING RENT

Target Street	Cross Street	Source
✓	-	Cole Information

S COLLEGE AVE 1992 (Cont'd)

11212 PHILLIPS, GREGORY L
QUINT, B
SMITH, SCOTT

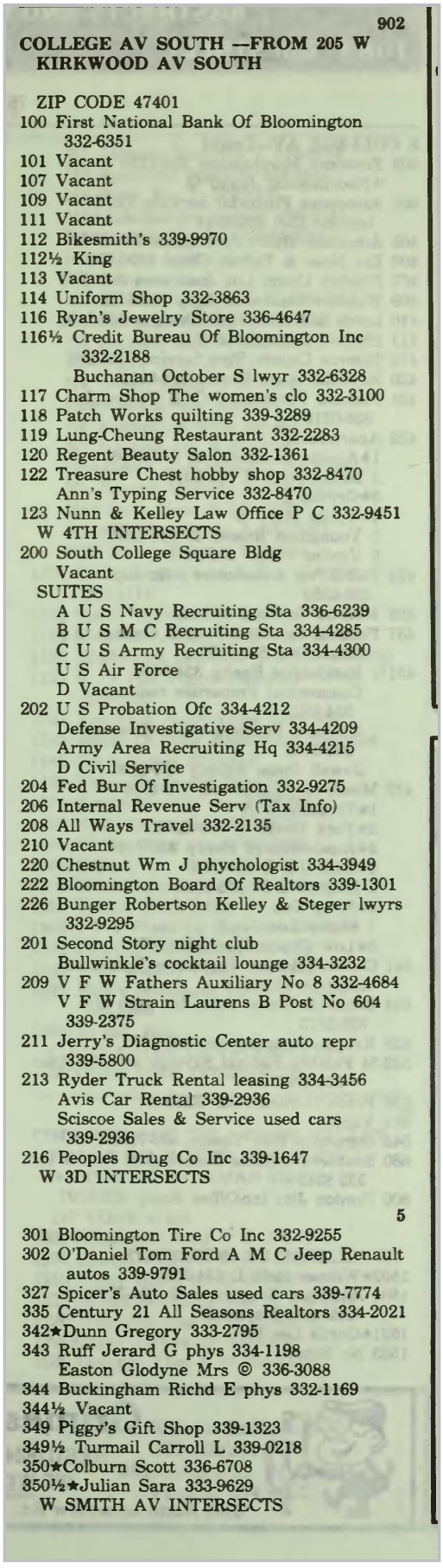
Target Street	Cross Street	Source
-	✓	Cole Information

W 4TH ST 1992

104	BLOOMINGTN CTY FIRE
105	PARKING GARAGE
108	BLOOMINGTON FIRE
111	LANTERN HOUSE
212	FRAMEMAKERS
219	HARLOS REALTY
314	MACE FOOD STORE INC
410	HALISI, C R
412	THOMPSON, CHARLES R
415	THOMPSON BEAUTY&BAR
416	BUTCHER, DOUGLAS
	DAVIES, K
502	AMERICAN CANCER SOC
	CANCER SOC AMERICAN
	INDIANA REPORTING
	PROTEC DSGN
505	MONROE CO AUX POLIC
506	AMER FAMILY INS
	RESCH W J
518	CENTRAL WESLEYAN CH
520	TREADWELL, BRIAN
	WOODHOUSE, RICHARD
522	OBRYAN, LISA

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1986



902

COLLEGE AV SOUTH —FROM 205 W KIRKWOOD AV SOUTH

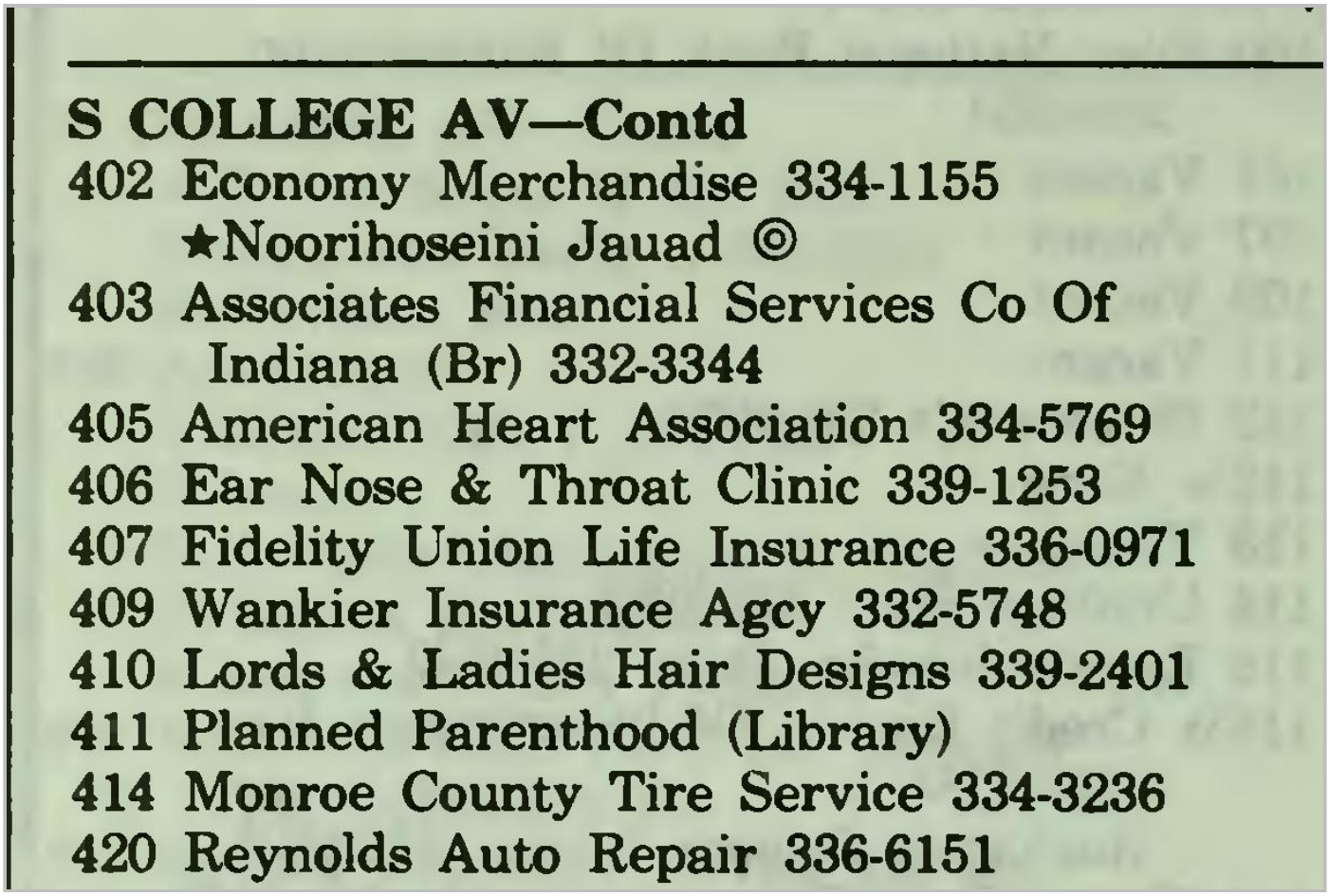
ZIP CODE 47401
100 First National Bank Of Bloomington 332-6351
101 Vacant
107 Vacant
109 Vacant
111 Vacant
112 Bikesmith's 339-9970
112½ King
113 Vacant
114 Uniform Shop 332-3863
116 Ryan's Jewelry Store 336-4647
116½ Credit Bureau Of Bloomington Inc 332-2188
Buchanan October S lwyr 332-6328
117 Charm Shop The women's clo 332-3100
118 Patch Works quilting 339-3289
119 Lung-Cheung Restaurant 332-2283
120 Regent Beauty Salon 332-1361
122 Treasure Chest hobby shop 332-8470
Ann's Typing Service 332-8470
123 Nunn & Kelley Law Office P C 332-9451
W 4TH INTERSECTS
200 South College Square Bldg
Vacant
SUITES
A U S Navy Recruiting Sta 336-6239
B U S M C Recruiting Sta 334-4285
C U S Army Recruiting Sta 334-4300
U S Air Force
D Vacant
202 U S Probation Ofc 334-4212
Defense Investigative Serv 334-4209
Army Area Recruiting Hq 334-4215
D Civil Service
204 Fed Bur Of Investigation 332-9275
206 Internal Revenue Serv (Tax Info)
208 All Ways Travel 332-2135
210 Vacant
220 Chestnut Wm J phychologist 334-3949
222 Bloomington Board Of Realtors 339-1301
226 Bunger Robertson Kelley & Steger lwyrs 332-9295
201 Second Story night club
Bullwinkle's cocktail lounge 334-3232
209 V F W Fathers Auxiliary No 8 332-4684
V F W Strain Laurens B Post No 604 339-2375
211 Jerry's Diagnostic Center auto repr 339-5800
213 Ryder Truck Rental leasing 334-3456
Avis Car Rental 339-2936
Sciscoe Sales & Service used cars 339-2936
216 Peoples Drug Co Inc 339-1647
W 3D INTERSECTS

5

301 Bloomington Tire Co Inc 332-9255
302 O'Daniel Tom Ford A M C Jeep Renault autos 339-9791
327 Spicer's Auto Sales used cars 339-7774
335 Century 21 All Seasons Realtors 334-2021
342★Dunn Gregory 333-2795
343 Ruff Jerard G phys 334-1198
Easton Glodyne Mrs © 336-3088
344 Buckingham Richd E phys 332-1169
344½ Vacant
349 Piggy's Gift Shop 339-1323
349½ Turmail Carroll L 339-0218
350★Colburn Scott 336-6708
350½★Julian Sara 333-9629
W SMITH AV INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1986



S COLLEGE AV—Contd

402 Economy Merchandise 334-1155
★Noorihoseini Jauad ◎
403 Associates Financial Services Co Of Indiana (Br) 332-3344
405 American Heart Association 334-5769
406 Ear Nose & Throat Clinic 339-1253
407 Fidelity Union Life Insurance 336-0971
409 Wankier Insurance Agcy 332-5748
410 Lords & Ladies Hair Designs 339-2401
411 Planned Parenthood (Library)
414 Monroe County Tire Service 334-3236
420 Reynolds Auto Repair 336-6151

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1986

902

4TH ST WEST —FROM 123 S WALNUT WEST

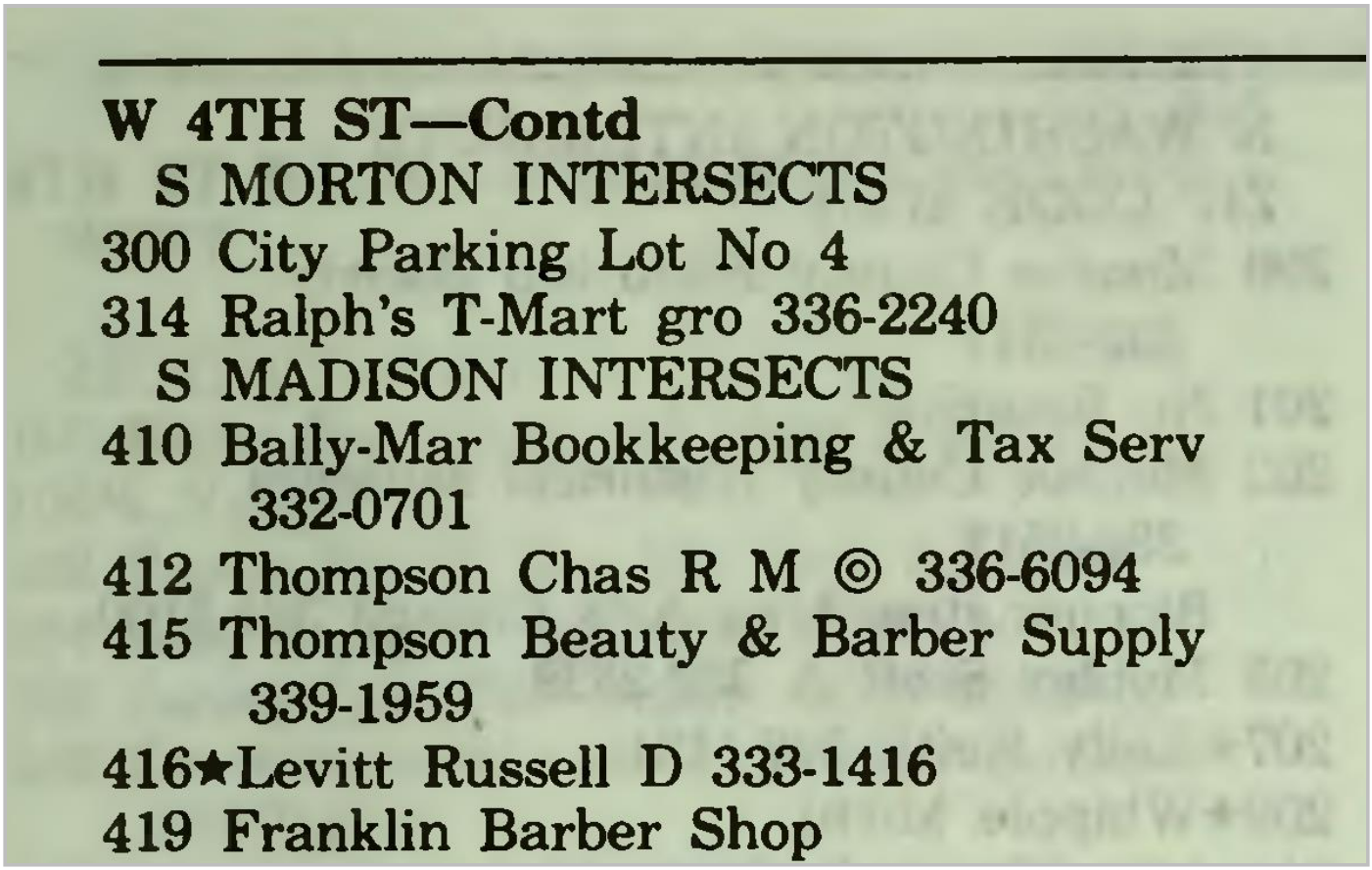
ZIP CODE 47401
104 City Fire Dept 332-5645
107 Salvation Army The Red Shield genl mdse-used 334-1366
107½ Vacant
108 City Fire Dept (Admn Ofc) 332-9763
111 Lantern House restr 339-8910
COLLEGE AV INTERSECTS

5

S COLLEGE AV INTERSECTS
212 Framemakers Custom Picture Framing picture frames 334-3305
214 Drummond's Art Cntr 336-2328
219 Harlos Company real est 332-1441
GENTRY PL ENDS

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1986



W 4TH ST—Contd
S MORTON INTERSECTS
300 City Parking Lot No 4
314 Ralph's T-Mart gro 336-2240
S MADISON INTERSECTS
410 Bally-Mar Bookkeeping & Tax Serv 332-0701
412 Thompson Chas R M ◎ 336-6094
415 Thompson Beauty & Barber Supply 339-1959
416★Levitt Russell D 333-1416
419 Franklin Barber Shop

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1981

902

COLLEGE AV SOUTH —FROM 205 W KIRKWOOD AV SOUTH

ZIP CODE 47401

100 First National Bank Of Bloomington 332-6351
101 Wine Cellar The 334-1797
107 American Hispanist 334-3008
109 A Propos gift shop 334-1330
111 Taliaferro Viola J Mrs lwyr 339-1118
112 Wood Stock Ready To Finish Furniture Co furn unfnshed 339-0880
112½ Clark Ned S 336-8211
113 On The Avenue clothing store 339-8130
114 Uniform Shop 332-3863
116 Ryan's Jewelry Store 336-4647
116½ Credit Bureau Of Bloomington Inc 332-2188
Howard Paul photog
Ryan Richd artist
Indiana Creative Resource Corp non profit organization 332-1162
117 Charm Shop The women's clo 332-3100
117½ Bridal Salon 332-3100
118 Local Finance Corp 332-3391
119 Lung-Cheung Restaurant 332-2283

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1981

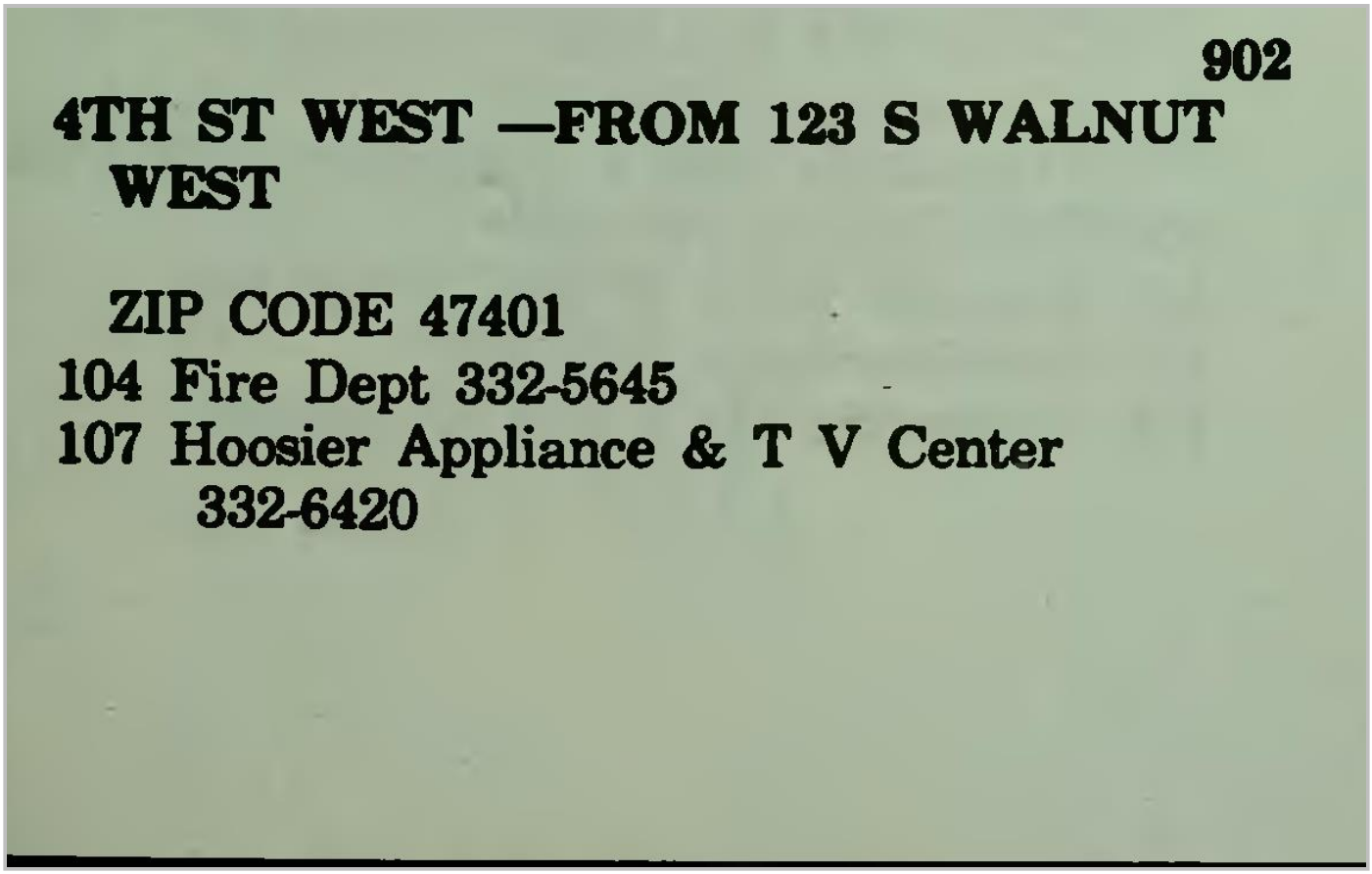
120 Bloomington Academy Of Beauty Culture 332-7958
121 Nunn Kenneth L lwyr 332-9451
122 Block H & R Inc tax serv 336-8245
W 4TH INTERSECTS
200 South College Square Bldg
Dial Joe Insurance Inc 332-4484
SUITES
A U S Navy Recruiting Sta 336-6239
B U S M C Recruiting Sta 332-5361
C U S Army Recruiting Sta 332-9287
D U S A F Recruiting Sta 336-4430
201 Bullwinkle's Cocktail Lounge 334-3232
ROOMS
A U S Probation Ofc 336-7505
B Defense Investigative Serv 339-4809
C US Dept Of The Interior (Bur Of Mines)
D Civil Service
204 Fed Bur Of Investigation 332-9275
206 Internal Revenue Serv (Tax Info)
208 Bloomfield State Bk (Loan Prod Ofc) 334-9905
208c All Ways Travel 332-2135
209 Fathers Auxilliary No 8 Of V F W 332-4684
Ladies Auxiliary Of V F W
Strain Laurens B Post No 604 (V F W)
Veterans Of Foreign Wars Club (Post 604) 339-2375
210 U S A F Ofc 336-0933
211 Frosty's Dodge Inc auto dlrs 332-4461
213 Avis Car Rental 339-2936
216 Haag Drug Co Inc 339-1647
222 Riggins Steph S coml real est 336-6664
226 South College Square Bldg
Bunger Harrell & Robertson lwyrs 332-9295
W 3D INTERSECTS

5

301 Bloomington Auto Service Center 332-9255
Bloomington Tire Co 332-9255
302 O'Daniel Tom Inc autos 339-9791
327 Spicer's Auto Sales used cars 339-7774
335 Century Twenty One All Seasons Realty 334-2021
342 Wood Charles W 332-1053
343 Easton Glodyne Mrs © 336-3088
344 Buckingham Richd E phys 332-1169
344½★Schuh Larry 336-8839
349 Piggy's gifts 339-1323
349½ Turmail Carroll L 339-0218
350 Marchant Clarence H © 339-9313
W SMITH AV INTERSECTS
402 No Return
403 Associates Financial Services Co Of Indiana 332-3344
405 Vacant
406 Advent Music 332-2167
407 Vacant
409 Wankier Insurance 332-5748
Metropolitan Life Insurance 332-4281
410 C I T Financial Services 332-1426
411 Gates Inc Realtors 339-6181
414 Monroe County Tires 334-3236
418 Jerry's Diagnostic Center Inc auto body repr 339-5800
421 Planned Parenthood Association Of S Cntl In 336-0219

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1981



Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1981

Studio Space Of The Performing Arts
332-0841
108 Fire Department (Ofc) 339-2261
111 Lantern House restr 339-8910
COLLEGE AV INTERSECTS

5

S COLLEGE AV INTERSECTS
212 Framemakers picture frames 334-3305
219 College Square
Rooms
219 Harlos Realty Co 332-1441
GENTRY PL ENDS
S MORTON INTERSECTS
300 City Parking Lot No 4
314 Ralph's T-Mart gro 334-2444
S MADISON INTERSECTS
410★Adang Richard D 332-5649
412 Thompson Charles R ◎ 336-6094
415 Thompson Beauty & Barber Supply
339-1959
416 Unterbrink Thos E ◎ 339-0624
419 Franklin Barber Shop
420★Adams Greg 339-3604
421 Indiana Univ Press (Stge) 337-4203
S ROGERS INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1976

902

COLLEGE AV SOUTH —FROM 205 W KIRKWOOD AV SOUTH

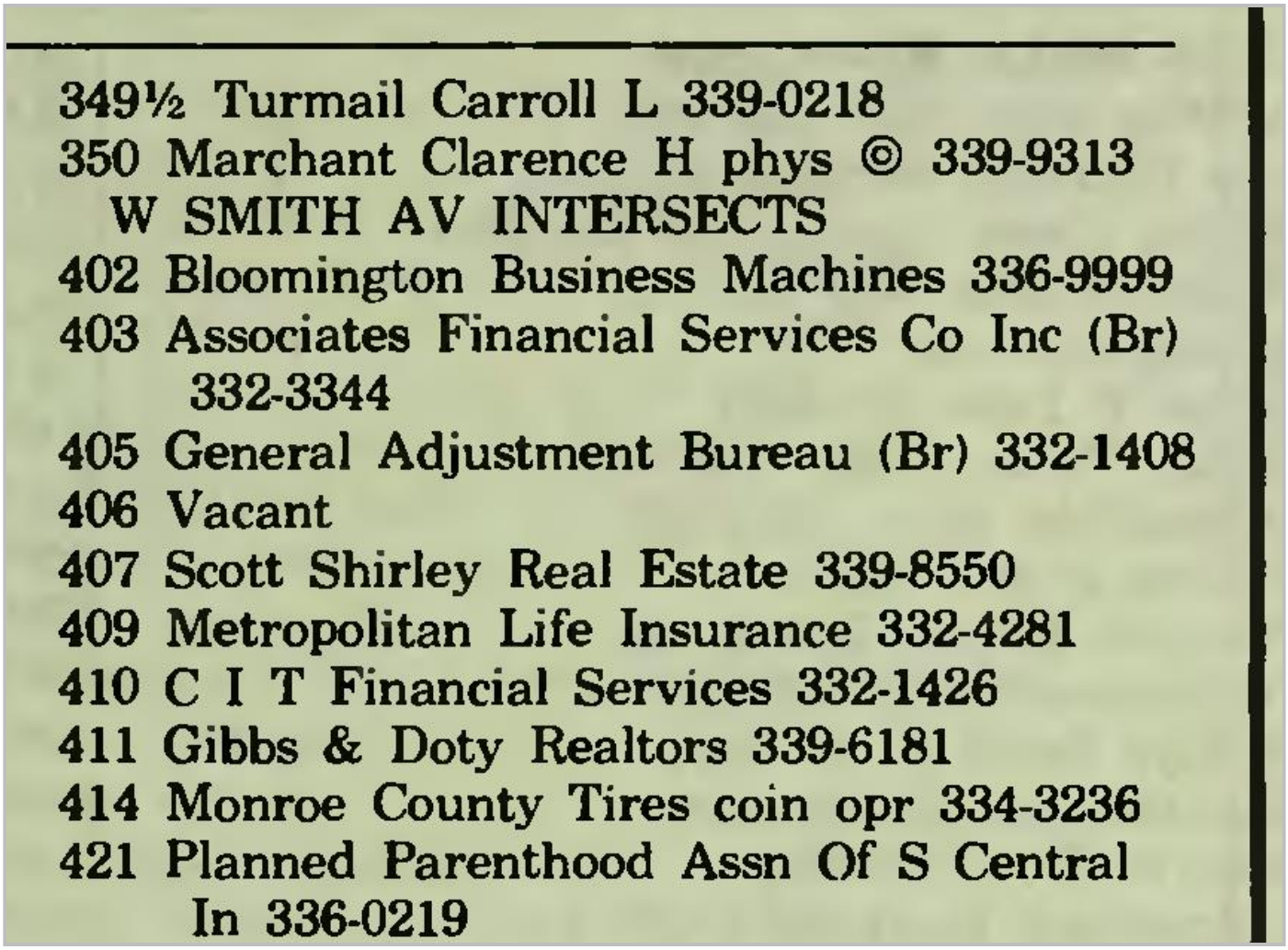
ZIP CODE 47401
100 First Natl Bank Of Bloomington 332-6351
101 Monroe County Community Action Program 339-3447
Monroe County Head Start 339-3447
109 Yarn Basket The 336-8122
111 Indiana Credit Exchange Inc 332-1222
112 Vacant
112½ Vacant
113 Pettay Lee lwyr 332-3342
114 Uniform Shop 332-3863
116 Ryan's Jewelry Store 336-4647
116½ Credit Bureau Of Bloomington Inc 332-2188
Hartung & Associates archts 339-5549
117 Charm Shop The women's clo 332-3100
117½ Bridal Salon 332-3100
118 Local Finance Corp 332-3391
119 Bender's Restaurant Inc 332-2283
120 Bloomington Academy Of Beauty Culture 332-7958
121 Nunn Kenneth L lwyr 332-9451
122 H & R Block Inc tax serv 336-8245
W 4TH INTERSECTS
201 Bloomington Lodge No 1081 (LOOM) 366-5281
Moose Loyal Order Of Lodge No 1081 332-1372
206 Vacant
209 Fathers Auxilliary No 8 Of V F W
Ladies Auxiliary Of V F W
Strain Laurens B Post No 604 (V F W) 332-7904
Veterans Of Foreign Wars Club (Post 604) 332-7904
211 Sciscoe Dodge Inc auto dlrs 332-4461
216 Haag Drug Co Inc 339-1647
W 3D INTERSECTS

5

301 Bloomington Auto Service Center 332-9255
Bloomington Tire & Retreading Co Inc 332-9255
302 O'Daniel Tom Inc autos 339-9791
327 Spicer's Auto Sales used cars 339-7774
335 Apartments
1 Rice Inas Tax Service 336-4033
2 Epley Robt
3 Vacant
4★Lehoullier Norman
5 Bushong Helen
342 Gerth Geneva M 332-1053
343 Martin Maude A © 336-3088
Easton Glodyne Mrs © 336-3088
344 Buckingham Richd E phys 332-1169
344½ Vacant
349 Piggy's Liquor Store 332-7059

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1976



349½ Turmail Carroll L 339-0218
350 Marchant Clarence H phys © 339-9313
W SMITH AV INTERSECTS
402 Bloomington Business Machines 336-9999
403 Associates Financial Services Co Inc (Br) 332-3344
405 General Adjustment Bureau (Br) 332-1408
406 Vacant
407 Scott Shirley Real Estate 339-8550
409 Metropolitan Life Insurance 332-4281
410 C I T Financial Services 332-1426
411 Gibbs & Doty Realtors 339-6181
414 Monroe County Tires coin opr 334-3236
421 Planned Parenthood Assn Of S Central In 336-0219

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1976

902

4TH ST WEST —FROM 123 S WALNUT WEST

ZIP CODE 47401
104 Fire Dept 332-5645
107 Cort Furniture Rental Co 336-1107
108 Fire Department (Ofc) 339-2261
111 Lantern House restr 339-8910
115 Moose Lodge (Side Ent)
COLLEGE AV INTERSECTS

5

S COLLEGE AV INTERSECTS
210 City Paint & Decorating paint & decorating store 336-6848
219 Harlos Building
Rooms
202 Harlos C E Inc realty rentals 332-1441
202 Harlos Realty Co rental agts 332-1441
202 James Associates archts 332-1441
219 Business & Real Estate Trends Inc publishers & consultants 339-6970
206 Vacant
210 Prudential Insurance Co Of America 332-2680
214 Wankier Insurance Agency 332-5748
216 Family Service Association Of Monroe County 339-1551
GENTRY PL ENDS
S MORTON INTERSECTS
300 City Parking Lot No 4
314 Thrif-T-Mart gro
S MADISON INTERSECTS
410 Vacant
412 Thompson Charles R © 336-6094
416★Hunter Robin E 339-5776
417 Indiana Univ Press (Ship & Receiving Dept) 337-4362
419 Franklin Barber Shop
420★Harbin Ron
421 Indiana Univ Press (Stge) 337-4203
S ROGERS INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1971

902

COLLEGE AV SOUTH —FROM 205 W KIRKWOOD AV SOUTH

ZIP CODE 47401

100 Under Constn
103 First Natl Bank Of Blmgtn (Loan Dept)
109 First Natl Bk Of Blmgtn (Colln Dept)
111 First National Bank Of Blmgtn (Trust Dept)
112 King's Shop The women's clo 336-6844
112½ Aracich Anthony S 339-6233
114 Uniform Shop 332-3863
116 Ryan's Jewelry Store 336-4647
116½ Credit Bureau Of Bloomington Inc 332-2188
Hartung R & Associates 339-1673
117 Charm Shop women's clo 332-3100
117½ Bridal Salon 332-3100
Golden Touch The beauty & wigs salon 332-6129
118 Local Finance Corp 332-3391
119 Bender's Restaurant Inc 332-2283
120 Bloomington Academy Of Beauty Culture 332-7958
121 Mc Crea & Mc Crea lwyrs 332-1311
Mc Crea Robt F lwyr 336-4840
Mc Crea David S lwyr 332-1311
122 H & R Block Inc tax serv 336-1655

W 4TH INTERSECTS

201 Bloomington Lodge No 1081 (LOOM) 366-5281
Moose Club 332-1372
206 Kroger Co 332-4751
209 Fathers Auxilliary No 8 Of Vfw
Ladies Auxiliary Of V F W
Strain Laurens B Post No 604 (V F W) 332-7904

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1971

Veterans Of Foreign Wars Club (Post 604) 332-7904
211 Sciscoe Dodge Inc auto dlrs 336-6871
216 Haag Drug Co Inc 339-1647
223 Vacant
W 3D INTERSECTS
301 Bloomington Auto Service Center 332-9255
302 O'Daniel Tom Inc autos 339-9791
328 City Parking Lot
335 Apartments
1 Everman Winchell B tax consultant 336-4033
3 Everman Winchell B
4 Speaks Cooper P 336-0639
5 Gilliatt Preston C 339-9436
342 Gerth Geneva M 332-1053
343 Martin Maude A ◎ 336
Easton Glodyne Mrs ◎ 336-3088
344 Buckingham Richd E phys 332-1169
344½ Vacant
349 Piggy's Liquor Store 332
349½ Turmail Carroll L 339-0218
350 Marchant Clarence H phys 339-9313
W SMITH AV INTERSECTS
402 Strain Wm J archt 332-7175
403 Associates Discount Corp finance 332-3348
Associates Finance Co 332-3344
405 Vacant
406 Holland Philip T phys 332-7286
407 State Farm Insurance 339-5048
409 Metropolitan Life Insurance Co 332-4281
410 Universal C I T Credit Corp 332
414 Serve Yourself Car Wash coin opr
421 American Legion Club 336-4010
Burton Woolery Auxiliary No 18 (Am Legion)
Burton Woolery Post No 18 (Am Legion)
Monroe County Salon No 540 Of The Am Legion
Voiture No 843 Of The 4018 (American Legion)

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1971

4TH ST WEST —FROM 123 S WALNUT WEST

ZIP CODE 47401

104 Fire Dept 332-5645

107 Vacant

108 Fire Department (Ofc) 339-5528

111 Bloomington Downtown Beauty Salon 339-6642

113 Vacant

W 4TH ST—Contd

S COLLEGE AV INTERSECTS

210 Bloomington Shade Store 336-6848

P P G Industries 336-6848

219 Harlos Building

Rooms

202 Harlos C E Inc contrs equip 332-1441

202 Harlos Realty Co rental agts 332-1441

202 James Associates archts 332-1441

206 Family Service Assoc Of Monroe County Inc 339-1551

208 Prudential Insurance Co Of America 332-2680

209 Mundy Louis Y real est 336-8530

214 Vacant

216 Indiana Gas Co (Dist Ofc) 332-9383

GENTRY PL ENDS

S MORTON INTERSECTS

300 City Parking Lot No 4

S MADISON INTERSECTS

410 Cantrell Gladys M Mrs 332

412 Thompson Charles R ◎ 336-6094

416 Bracken Myrtle C ◎ 336-5388

417 Indiana Univ Book Store 337-6046

419 Franklin Barber Shop

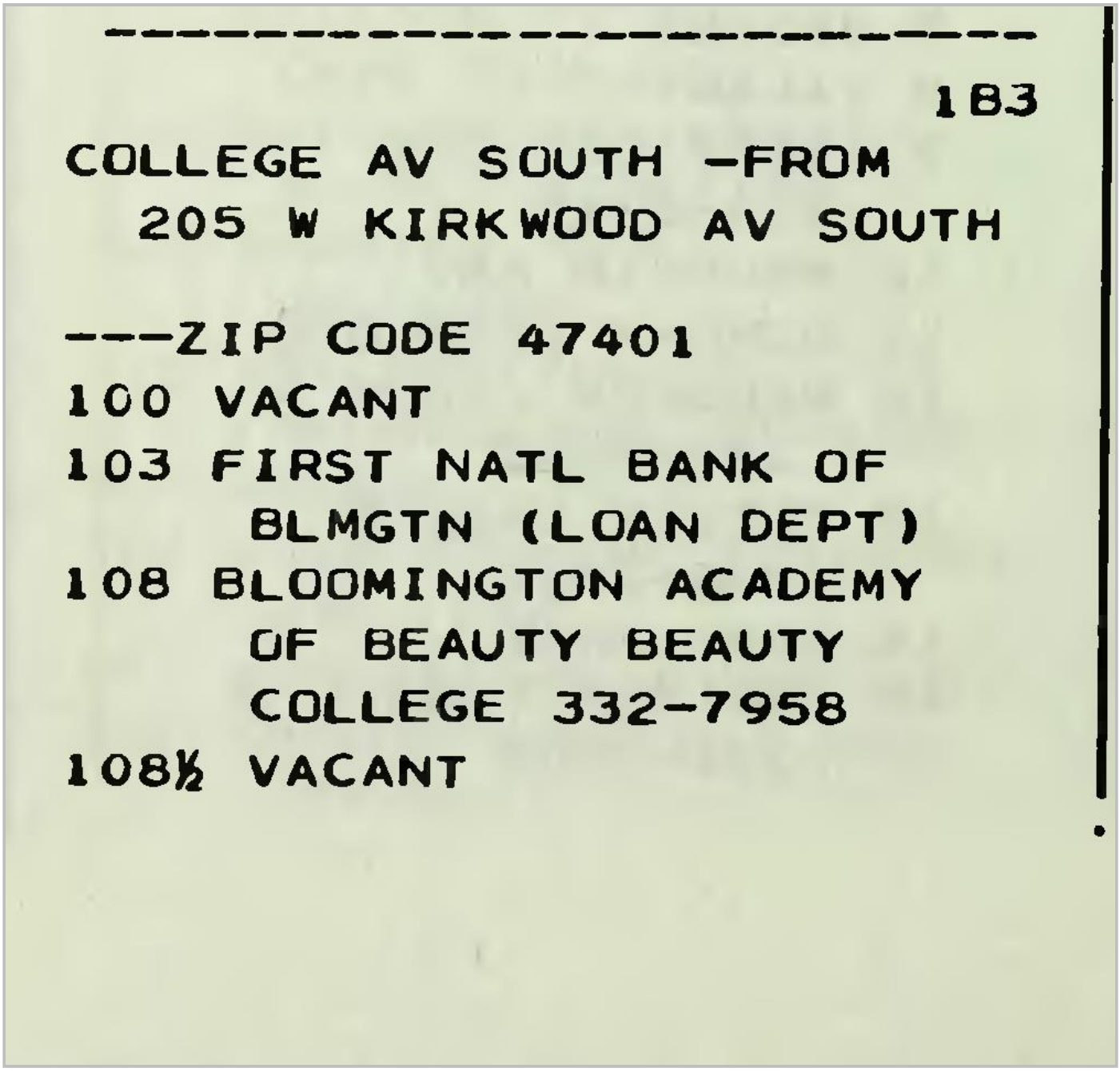
420 Vacant

421 Vacant

S ROGERS INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1968



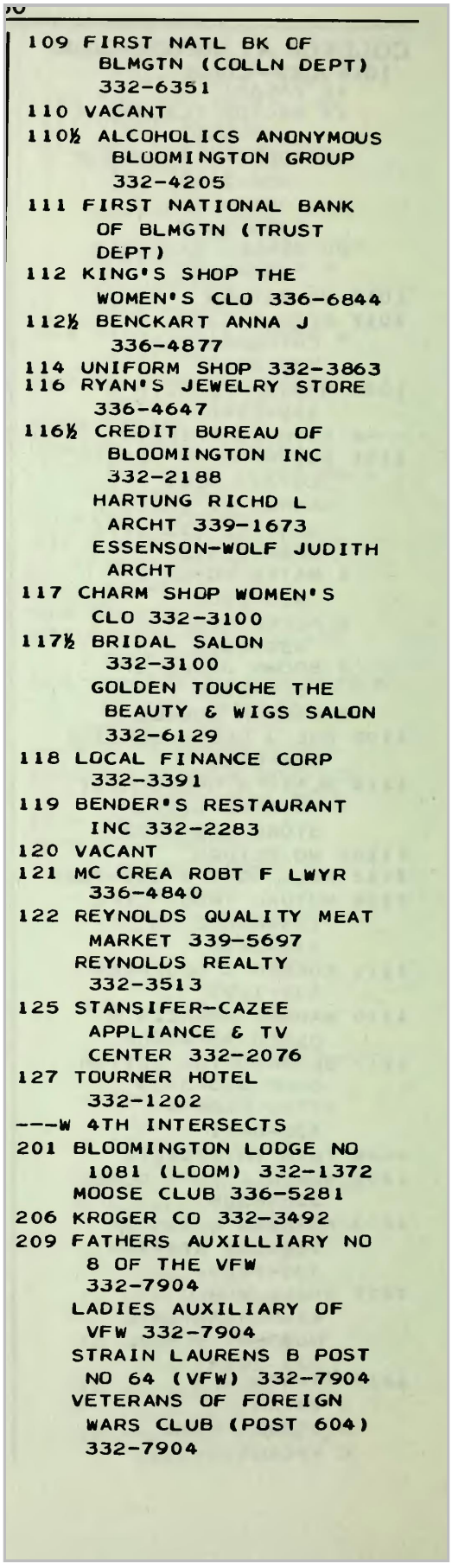
183

COLLEGE AV SOUTH -FROM
205 W KIRKWOOD AV SOUTH

---ZIP CODE 47401
100 VACANT
103 FIRST NATL BANK OF
BLMGTN (LOAN DEPT)
108 BLOOMINGTON ACADEMY
OF BEAUTY BEAUTY
COLLEGE 332-7958
108½ VACANT

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1968



109 FIRST NATL BK OF
BLMGTN (COLLN DEPT)
332-6351
110 VACANT
110½ ALCOHOLICS ANONYMOUS
BLOOMINGTON GROUP
332-4205
111 FIRST NATIONAL BANK
OF BLMGTN (TRUST
DEPT)
112 KING'S SHOP THE
WOMEN'S CLO 336-6844
112½ BENCKART ANNA J
336-4877
114 UNIFORM SHOP 332-3863
116 RYAN'S JEWELRY STORE
336-4647
116½ CREDIT BUREAU OF
BLOOMINGTON INC
332-2188
HARTUNG RICHD L
ARCHT 339-1673
ESSENSON-WOLF JUDITH
ARCHT
117 CHARM SHOP WOMEN'S
CLO 332-3100
117½ BRIDAL SALON
332-3100
GOLDEN TOUCHE THE
BEAUTY & WIGS SALON
332-6129
118 LOCAL FINANCE CORP
332-3391
119 BENDER'S RESTAURANT
INC 332-2283
120 VACANT
121 MC CREA ROBT F LWYR
336-4840
122 REYNOLDS QUALITY MEAT
MARKET 339-5697
REYNOLDS REALTY
332-3513
125 STANSIFER-CAZEE
APPLIANCE & TV
CENTER 332-2076
127 TOURNER HOTEL
332-1202
---W 4TH INTERSECTS
201 BLOOMINGTON LODGE NO
1081 (LOOM) 332-1372
MOOSE CLUB 336-5281
206 KROGER CO 332-3492
209 FATHERS AUXILLIARY NO
8 OF THE VFW
332-7904
LADIES AUXILIARY OF
VFW 332-7904
STRAIN LAURENS B POST
NO 64 (VFW) 332-7904
VETERANS OF FOREIGN
WARS CLUB (POST 604)
332-7904

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1968

COLLEGE AV SOUTH—Contd

211 BROWN PAUL MOTOR
SALES AUTO DLRS
336-6871

216 HAAG DRUG CO INC
339-1647

223 BROWN'S STANDARD
SERVICE 332-7716

---W 3D INTERSECTS

301 BLOOMINGTON TIRE &
RETREADING CO INC
332-9255

302 O'DANIEL TOM INC
AUTOS 339-9791

327 BROWN PAUL MTR SLS
USED AUTOS 332-4017

328 CITY PARKING LOT

335 APARTMENTS
1 EVERMAN WINCHELL B
TAX CONSULTANT
336-4033
3 EVERMAN WINCHELL B
4 HUGHES PEGGY
5 CARRINGER ROBT R

342 GERTH GENEVA M
332-1053

343 MARTIN MAUDE A ●
336-4707
EASTON GLODYNE MRS ●
336-3088

344 BUCKINGHAM RICHD E
PHYS 332-1169

344½ CLEVELAND W S

349 PIGGY'S LIQUOR STORE
332-7059

349½ TURMAIL CARROLL L
339-0218

350 MARCHANT CLARENCE H
PHYS 339-9313

---W SMITH AV INTERSECTS

402 STRAIN WM J ARCHT
332-7175

403 ASSOCIATES DISCOUNT
CORP FINANCE
332-3348
ASSOCIATES FINANCE CO
332-3344

405 COLLEGE LIFE
INSURANCE CO OF
AMERICA THE 339-3431

406 HOLLAND PHILIP T PHYS
332-7286

407 VACANT

409 METROPOLITAN LIFE
INSURANCE CO
332-9157

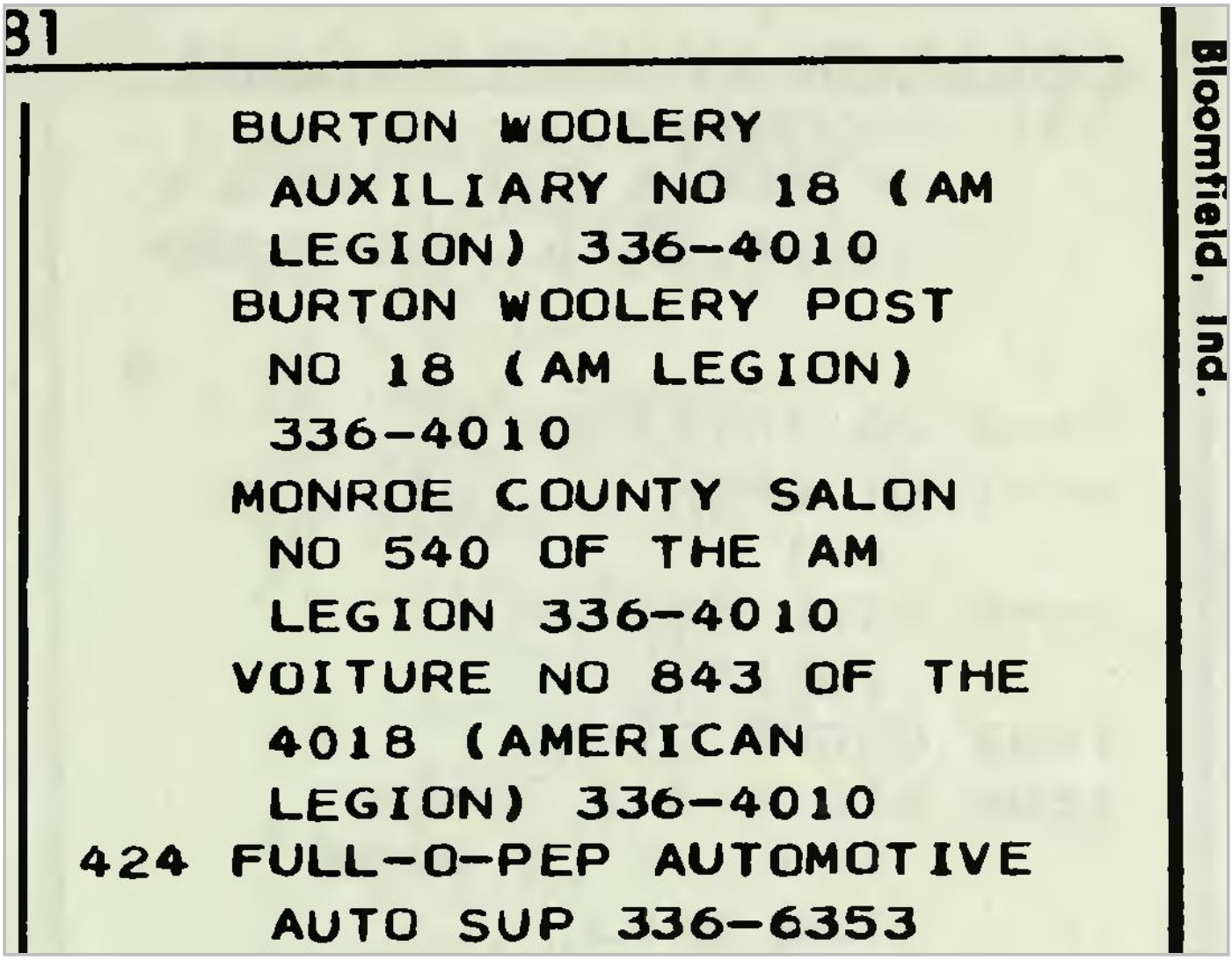
410 UNIVERSAL CIT CREDIT
CORP 332-1426

414 SERVE YOURSELF CAR
WASH COIN OPR

421 AMERICAN LEGION CLUB
336-4010

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1968



Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1968

```
 ------------------------
                      1B3
4TH ST WEST -FROM 123 S
  WALNUT WEST

---ZIP CODE 47401
104 FIRE DEPT 332-5645
107 STUCKEY FURNITURE
     339-1070
108 FIRE DEPARTMENT (OFC)
     339-5528
110 GOOLDY & SONS INC
     REFGR SERV 332-1682
111 BLOOMINGTON DOWNTOWN
     BEAUTY SALON
     339-6642
    INDIANA LIMESTONE
     INSTITUTE OF AMERICA
     INC 339-3439
113 HERTHEL BEAUTY SUPPLY
     339-1959
115 MOOSE LODGE (SERV
     ENT)

                         5
---S COLLEGE AV
      INTERSECTS
210 BLOOMINGTON SHADE
     STORE LYLE V SHELOR
     MGR 332-7515
    P P G INDUSTRIES
     336-6848
219 HARLOS BUILDING
      ROOMS
    202 HARLOS C E INC
         CONTRS EQUIP
         332-1441
    202 HARLOS REALTY CO
         RENTAL AGTS
         332-1441
    202 JAMES ASSOCIATES
         ARCHTS 332-1441
219 VACANT
    208 PRUDENTIAL
         INSURANCE CO OF
         AMERICA 332-2680
        SOLAR
         MANUFACTURING
    214 WABASH VALLEY
         INTERSTATE
         COMMISSION
         332-1229
    216 INDIANA GAS CO
         332-9383
---GENTRY PL ENDS
---S MORTON INTERSECTS
300 CITY PARKING LOT NO 4
314 LOUDEN'S MARKET(REAR
     ENT)
```

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1968

4TH ST WEST—Contd

322 LOUDEN'S
MARKET(PARKING)
---S MADISON INTERSECTS
400 OWENS ELECTRIC CO
(PARKING LOT)
403 STEWART JOHN W
339-1887
409 PATE CLAVIN E
410 CANTRELL GLADYS MRS
332-0596
412 THOMPSON ROBT M ●
336-6094
415 VACANT
416 BRACKEN MYRTLE C ●
336-5388
417 INDIANA UNIV BOOK
STORE 337-6046
419 FRANKLIN BARBER SHOP
420 PHILLIPS ANGELA
421 VACANT
---S ROGERS INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1964

1B3

COLLEGE AV S—From 205 W Kirkwood av south

100-100½ **Citizens First Natl Bank Bldg**

Citizens First Natl Bk of Bloomington (br) 332-4455

Hilliard J J B & Son brokers 332-6536

Rooms:

101 Vacant

200 Woodward Ins Inc 332-2131

Northwestern Mut Life Ins Co 332-2131

300 Henley & Dixon lwyrs 332-2222

302 US Fidelity & Guaranty Co ins 339-9558

308-08 Reineking Richd V acct 336-6861

306 Genl Adjustment Bur Inc 332-5364

Street continued

102 Vacant

103 Citizens First Natl Bk of Bloomington (installment loan dept) 332-6351

108 Bloomington Academy of Beauty 332-7958

108½ Vacant

110 Pinkston's Inc clo 332-0557

110½ Vacant

112 King's Shop The clo 336-5903

112½ Benckart Anna J 336-4877

113 Vacant

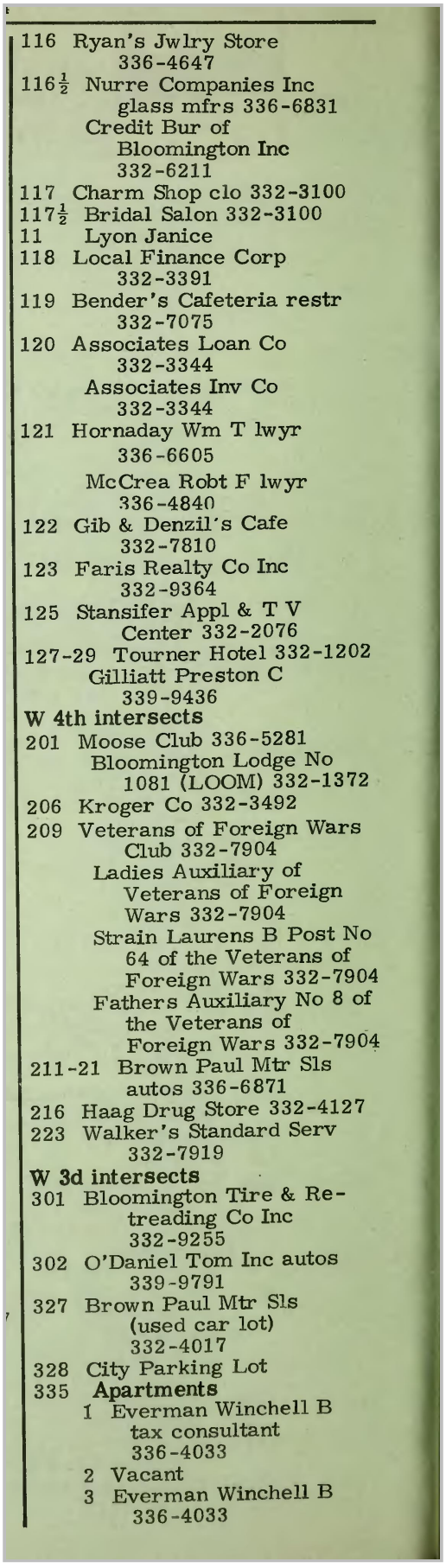
114 Vacant

115 Iris Fabric & Yarn Shop 332-4698

115½ Vacant

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1964



116 Ryan's Jwlry Store
336-4647
116½ Nurre Companies Inc
glass mfrs 336-6831
Credit Bur of
Bloomington Inc
332-6211
117 Charm Shop clo 332-3100
117½ Bridal Salon 332-3100
11 Lyon Janice
118 Local Finance Corp
332-3391
119 Bender's Cafeteria restr
332-7075
120 Associates Loan Co
332-3344
Associates Inv Co
332-3344
121 Hornaday Wm T lwyr
336-6605
McCrea Robt F lwyr
336-4840
122 Gib & Denzil's Cafe
332-7810
123 Faris Realty Co Inc
332-9364
125 Stansifer Appl & T V
Center 332-2076
127-29 Tourner Hotel 332-1202
Gilliatt Preston C
339-9436

W 4th intersects

201 Moose Club 336-5281
Bloomington Lodge No
1081 (LOOM) 332-1372
206 Kroger Co 332-3492
209 Veterans of Foreign Wars
Club 332-7904
Ladies Auxiliary of
Veterans of Foreign
Wars 332-7904
Strain Laurens B Post No
64 of the Veterans of
Foreign Wars 332-7904
Fathers Auxiliary No 8 of
the Veterans of
Foreign Wars 332-7904
211-21 Brown Paul Mtr Sls
autos 336-6871
216 Haag Drug Store 332-4127
223 Walker's Standard Serv
332-7919

W 3d intersects

301 Bloomington Tire & Re-
treading Co Inc
332-9255
302 O'Daniel Tom Inc autos
339-9791
327 Brown Paul Mtr Sls
(used car lot)
332-4017
328 City Parking Lot
335 **Apartments**
1 Everman Winchell B
tax consultant
336-4033
2 Vacant
3 Everman Winchell B
336-4033

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1964

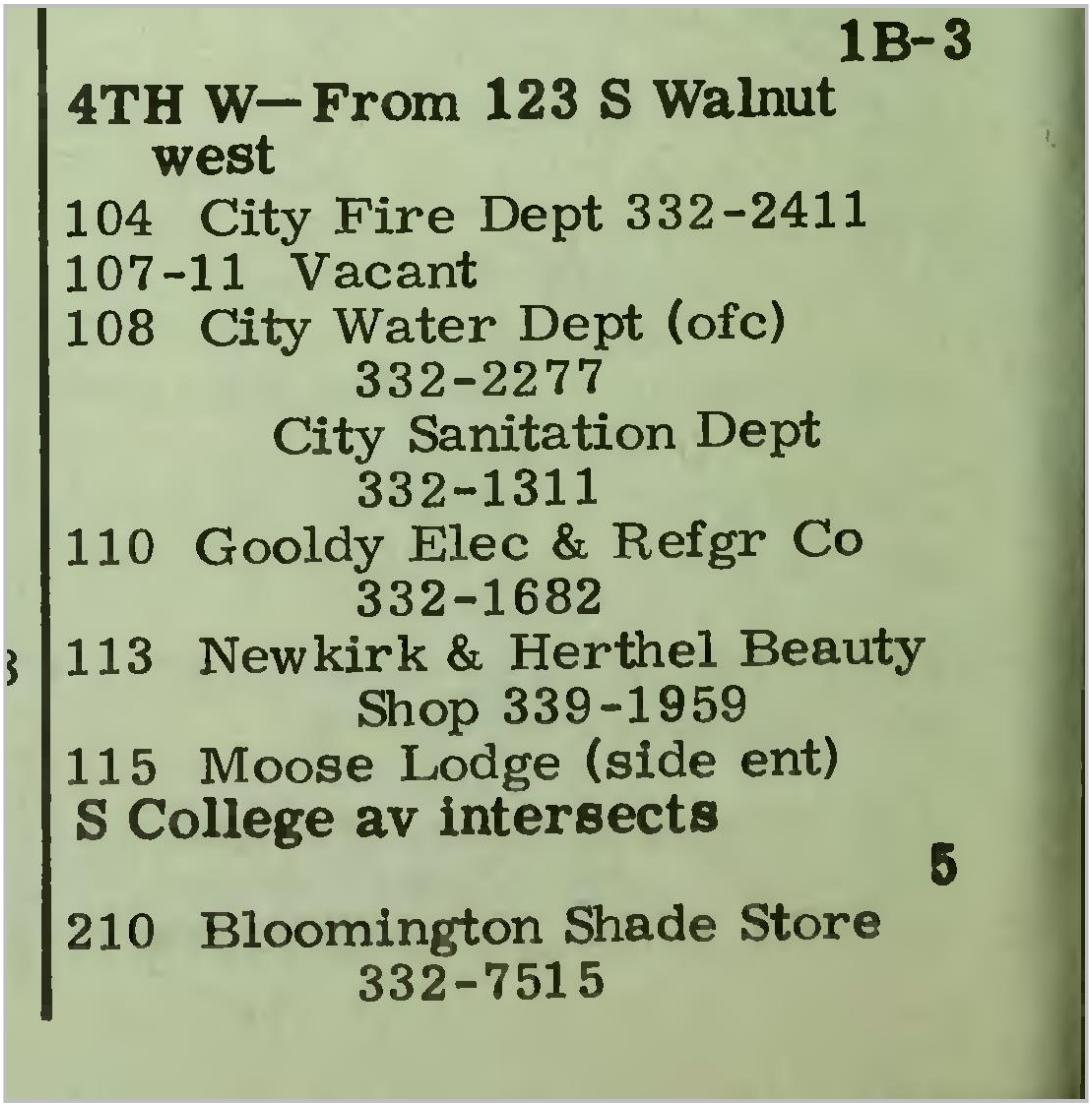
COLLEGE AV S--Contd
335--Contd
4 Hackemeyer Roy
332-2870
5 Booker Harlan A
339-0132
Street continued
342 Gerth Geneva M 332-1053
343 Martin Maude A ◎
336-4707
Easton Glodyne Mrs ◎
336-3068
344 Buckingham Richd E phys
332-1169
344½ Sowdeen Nancy 339-0408
349 Pigg's Liquor Store
332-7059
349½ Vacant
350 Marchant Clarence H phys
339-9313
W Smith av intersects
402 Strain Wm J archt
336-7175
403 Vacant
408 Crum Millard B 332-1233
409 **Apartments**
1 No Return
2 Deaux Edw B 339-0737
3 Chang Shu Mei
4 Hunt James

Street continued
414 Howard Chevrolet Co Inc
used cars 332-9265
421 Am Legion Club 336-4010
Burton Woolery Post No
18 (Am Legion)
336-4010
Burton Woolery Auxiliary
No 18 (Am Legion)
336-4010
Voiture No 843 of the 40-8
(Am Legion) 336-4010
Monroe County Salon No
540 of the 40-8 (Am
Legion) 336-4010

422 **Apartments**
1 Vaughn Chas

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1964



1B-3

4TH W—From 123 S Walnut west

104 City Fire Dept 332-2411

107-11 Vacant

108 City Water Dept (ofc) 332-2277

City Sanitation Dept 332-1311

110 Gooldy Elec & Refgr Co 332-1682

113 Newkirk & Herthel Beauty Shop 339-1959

115 Moose Lodge (side ent)

S College av intersects

5

210 Bloomington Shade Store 332-7515

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1964

4TH W—Contd

219 **Building**
Rooms:
202 Harlos Building Service
bldg material
332-1441
Harlos Realty Co
332-1441
Harlos C E Inc bldg
contrs 332-1441
208-10 Prudential Ins Co of
Am 332-2680
209 Vacant
216 Vacant
219 Longardner Robt L
Assoc (ofc) 336-5272

Gentry pl ends

S Morton intersects

300 City Parking Lot No 4
301 Vacant
314 Louden's Mkt (rear ent)
322 Louden's Mkt (parking)

S Madison intersects

400 Owens Elec Co (parking lot)
403 Frost Etta Mrs ◎ 336-6697
409 Pate Calvin A
Stevens Lloyd
Gardner Rodney
410 Jefferson Winona T Mrs ◎
332-0084
412 Thompson Robt M ◎
332-5010
415 Fell Surplus Sls used furn
332-9642
416 Bracken Myrtle C ◎
336-5388
419 Franklin Barber Shop
332-7812
420 Isaac Harold 336-5324
Bivins Wayne 332-5233
421 Vacant

S Rogers intersects

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1960

1B-3

COLLEGE AV S — From 205 W Kirkwood av south to city limits, 1 west of Walnut

100 Citizens Bank & Trust Co
🔔 ED2-4455

100-100½ **Citizens Bank & Trust Co Bldg**

Rooms:

101 Brown K J Co brokers
🔔 ED9-9426

200 Woodward G B Co Inc ins
🔔 ED2-2131

Northwestern Mut Life Ins Co
🔔 ED2-2131

300 Henley & Bunger lwyrs
🔔 ED2-2222

302 US Fidelity & Guaranty Co ins 🔔 ED9-9558

304-08 Reineking Richd V CPA
🔔 ED6-6861

306 Western Adj & Insp Co
🔔 ED2-5346

Street continued

102 Western Union Teleg Co
🔔 ED6-6365

103 First Natl Bank (loan dept)

103 Daily Herald Telephone
🔔 ED2-4401

Bloomington Newspapers Inc
🔔 ED2-4401

108 Davis Cleaners & Tailors
🔔 ED2-2522

108½ Davis Clns (stg)

110 Pinkston's Inc mens clo
🔔 ED2-0557

112 King's Shop The women's clo
🔔 ED6-5803

112½ Benckart Anna 🔔 ED6-4877

113 Bloomington Natl Savings & Loan Assn 🔔 ED6-4618

114 College Av Shoe Shop reprs

115 Iris Fabric & Yarn Shop
🔔 ED2-4698

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1960

COLLEGE AV S—Contd
115½ Copeland Ballroom Dance Studio ⚠ ED2-5289
116 Ryans Jwlry Store ⚠ ED6-4647
116½ Nurre Companies Inc glass mfrs ⚠ ED6-6831
117 Charm Shop women's clo ⚠ ED2-3100
118 Local Finance Corp ⚠ ED2-3391
119 Benders Cafeteria restr ⚠ ED2-7075
120 Associates Loan Co ⚠ ED2-3344
Associates Inv Co ⚠ ED2-3344
121 McCrea Robt F lwyr ⚠ ED6-4840
122 Gib & Denzils Cafe ⚠ ED2-7810
123-25 Burch TV & Appliance Center ⚠ ED2-2076
127-29 Tourner Hotel ⚠ ED2-1202
Gilliatt Preston C ⚠ ED9-9436
W 4th intersects
201 Moose Club ⚠ ED6-5281
Blmgtn Lodge No 1081 LOOM ⚠ ED2-1372
206 Kroger Gro ⚠ ED2-3492
209 Veterans of Foreign Wars Club ⚠ ED2-7904
Blmgtn Post No 604 VFW
216 Haag Drug Co ⚠ ED2-4127
211-21 Brown Paul Motor Sls ⚠ ED6-6871
223 Walker Standard Service Sta gas sta ⚠ ED2-7919
W 3d intersects
303 Graham Farm Store agrl implts ⚠ ED9-9791
Graham Motor Sls Co autos ⚠ ED9-9791
Graham Tire Store ⚠ ED9-9791
311 Graham Mtr Truck Sales ⚠ ED9-9791
327 Brown Paul Mtr Sls Used Car Lot ⚠ ED2-4017
328 City Parking Lot
335 Morris Mabel ⓞ ⚠ ED6-4146
Parks Marie Mrs ⚠ ED2-2689
McDonald Wilma Mrs
342 Gerth Geneva ⚠ ED2-1053
343 Martin Maude A ⓞ ⚠ ED6-4707
Easton Glodyne Mrs ⓞ ⚠ ED6-3088
344 Buckingham Richd E phys ⚠ ED2-1169
344½ Lawson Marie B Mrs
349 Piggy's Liquor Store ⚠ ED2-7059
349½ Joyce Jos B ⚠ ED2-0046
350 Marchant Clarence H ⓞ phys ⚠ ED9-9313
W Smith av intersects
402 Strain Wm J ofc ⚠ ED2-7175
403 Hetherington John L ⓞ ⚠ ED6-3081
Larimer Lilly A
409 Etchells Eileen T
414 Howard Chevrolet Co (used car lot) ⚠ ED2-1471

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S COLLEGE AVE 1960

421 Am Legion Club 🔔 ED6-4014
Burton Woolery Post No 18 Am Legion 🔔 ED6-4010
Burton Woolery Auxiliary No 18 Am Legion 🔔 ED6-4010
Boiture No 843 of the 40-8 Am Legion 🔔 ED6-4010
Monroe County Salon No 540 of 🔔he 40-8 Am Legion 🔔 ED6-4010

422 **Apartments**
1 Vacant
2 Smith Saml 🔔 ED2-9195
3 Vacant
4 Good Witt E jr 🔔 ED2-4512
5 Vacant
6 Woolsey Wm

Street continued

424 Full-O-Pep Inc auto supplies 🔔 ED6-6353

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 4TH ST 1960

14TH W — From 1003 Walnut west to Oolitic dr

109 Chitwood Carl E 🔔 ED2-4382

N College av intersects

210 Steele Effie K Mrs ⓞ
🔔 ED6-3918

215 Wilkerson Eva Mrs ⓞ
🔔 ED2-7305

220 Szatkowski Chas E ⓞ
🔔 ED6-3406

221 Graves Hilbert H ⓞ
🔔 ED6-5435

Woodburn av intersects

305 Nowling Wm C

306 Woods Edwin ⓞ

312 Stogsdill R Carroll repr shop
🔔 ED2-2572
Stogsdill Maude Mrs ⓞ
🔔 ED2-2572

313 Neal Harvey ⓞ 🔔 ED6-6483

315 Vacant

317 Vacant

N Madison intersects

N Rogers intersects

N Jackson intersects (not open)

N Fairview intersects

N Maple intersects (not open)

827 Christian Center Annex

ATTACHMENT 4

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 S. College Avenue
Bloomington, IN 47403

September 30, 2024

BCA Project No. 24-199

BCA™ Environmental Consultants

www.BCAconsultants.com

Goshen (574) 522-1019 • Indianapolis (317)578-9233

BCA™ Environmental Consultants

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

Commercial Building
216 S. College Avenue
Bloomington, IN 47403

September 30, 2024

BCA Project No. 24-199

Prepared For:
City of Bloomington Redevelopment Commission
Cooperative Agreement No. BF-00E03051

Respectfully Submitted by:
BCA Environmental Consultants, LLC

Rod A. Manny, LPG
Project Manager

Jacob Teuschler
Project Manager

John W. Kilmer, CHMM
VP Technical Services

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Appendices

A. Sampling and Analysis Plan & Health and Safety Plan
B. Soil Boring Logs
C. GPS Coordinate Data
D. Groundwater Sampling Logs
E. Analytical Laboratory Reports

List of Abbreviations

BCA	BCA Environmental Consultants, LLC
bgs	Below Ground Surface
CAC	Also, CA&C - Coal Ash & Cinders
CrVI	Hexavalent chromium
CVOCs	Chlorinated Volatile Organic Compounds
EM	Electromagnetic
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GPM	Gallons per Minute
GPR	Ground Penetrating Radar
GPS	Global Positioning System
GW	Groundwater
HASP	Health and Safety Plan
HDPE	High Density Polyethylene
IDEM	Indiana Department of Environmental Management
LNAPL	Light Non-aqueous Phase Liquid
LCS	Laboratory Control Standard
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyl
PID	Photo-Ionization Detector
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
R2	Risk-based Closure Guide (RbCG)
E-PL	Excavation Published Level (Soil)
C-PL	Commercial/Industrial Published Level (Soil)
R-PL	Residential Published Level (Soil)
RGW PL	Residential Groundwater Published Level (Groundwater)
VEPL	Vapor Exposure Published Levels (Soil-Gas, Indoor Air)
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RPD	Relative Percent Difference
RoW	Right of Way
SAP	Sampling and Analysis Plan
PLs	Published Levels
SOP	Standard Operating Procedures
SVOCs	Semi-Volatile Organic Compounds
ug/kg	micrograms per kilogram
ug/L	micrograms per Liter
USCS	Unified Soil Classification System
USTs	Underground Storage Tanks
VFC	IDEM Virtual File Cabinet
VOCs	Volatile Organic Compounds
WHPA	Well Head Protection Area

1.0 INTRODUCTION

BCA Environmental Consultants, LLC (BCA) was requested by the City of Bloomington to perform a Supplemental Phase II Environmental Site Assessment (ESA) of the former commercial property located at 216 S. College Ave. Bloomington, IN 47403 (Subject Property) (**Figures 1** & **2**). This report is prepared for the "Redevelopment Commission Of The City Of Bloomington" through a U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement No. BF-00E03051). The following report presents the information obtained during the investigation and provides conclusions and recommendations based on the information.

The subject property comprises of three (3) parcels of land identified by two (2) parcel numbers (# 53-05-33-310-240.000-005 and # 53-05-33-310-243.000-005) totaling approximately 1.7 acres of land that is situated in the City of Bloomington, Monroe County, Indiana (Figure 1). The property is located on the south side of West 4th Street, on the north side of West 3rd Street and on the west side of South College Avenue. The surrounding area is a mix of commercial and municipal properties. The B-Line multi-use trail runs along the western property boundary. The subject property is currently owned by the City of Bloomington Redevelopment Commission.

A Phase I Environmental Site Assessment (ESA) of the Subject Property was completed by BCA through the EPA grant and is dated May 31, 2023 (BCA, 2023). The Phase I ESA identified the following Recognized Environmental Conditions (RECs) and Vapor Encroachment Conditions (VECs) in connection with the Subject Property

Parking Lot (Subject Property), 216 S. College Avenue

A Phase II ESA was conducted on the Subject Property in 2019 (BCA, 2019). The results of the sampling and analyses confirmed that soil and groundwater on the Subject Property had been impacted by the historical handling and distribution of petroleum products. Most notable was the presence of petroleum related compounds in the groundwater at the two (2) probes. Benzene, 1-methylnaphthalene, and naphthalene were detected on the Subject Property at concentrations exceeding the R2 Residential HHL. Regarding soils, arsenic, benzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene were detected at concentrations exceeding the RCG Migration to Groundwater (MTGW) SLs.

- The detection of elevated concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the Phase II ESA in 2019 is a REC and a VEC.
- The historical utilization of the Subject Property as a gasoline filling station that operated on the Subject Property with multiple gasoline tanks from the 1920s

through at least the late 1950s with no documentation of proper closure is a REC and a VEC.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is a REC.

The purpose of this Supplemental Phase II ESA is to implement the recommendations of the Phase II ESA (BCA, 2019) and investigate the extent and magnitude of limited analytes at specific locations or areas identified in the Phase II ESA.

2.0 METHODOLOGY

The investigation procedures followed BCA's approved Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the Risk-based Closure Guide (Nonrule Policy Document WASTE-0046-R2, or R2), effective July 8, 2022, regulations, and industry-accepted practices. Investigation results were compared to applicable R2 2024 Published Levels (PLs).

2.1 Sampling and Analysis Plan and Health and Safety Plan

A site-specific SAP and HASP were prepared for the Subject Property prior to Phase II ESA activities and were approved by the EPA Region V Brownfield Program. Unless otherwise noted, the plan and procedures followed the SAP. A copy of the SAP and HASP is provided in **Appendix A**.

2.2 Geophysical Survey

A limited geophysical survey was conducted for BCA by SAGE at the Subject Property on July 9, 2024, prior to commencing drilling activities, to identify the locations of any unknown and buried utilities. The survey included GPR scans of the area around each proposed boring to identify any potential buried utility or other sub-surface anomaly. All detected utilities and all linear anomalies were marked with paint as possible utility locations. The survey also included a search of the subject property for USTs, no potential USTs were observed during the limited survey.

2.3 Drilling Methods

The soil probes were advanced by SeraTech of South Bend, Indiana using a track-mounted Geoprobe® direct-push probe system. The soil probes were installed in five (5)-ft. long sections using a 2.5-inch diameter hollow steel sampling rod that contained a clear acetate liner. The rods were pushed into the soil or driven with a hydraulic hammer, advancing the disposable acetate liner through the substratum, allowing the collection of continuous, relatively undisturbed soil cores, minimizing cross-contamination between both stratigraphic horizons and probe locations. The liners containing the soil cores were extracted from the sample rods and were split in the field and screened by BCA via the process described below. The soil was then logged in accordance with the Unified Soil Classification System (USCS). Specific soil descriptions, screening results and corresponding depths are included on the boring logs in **Appendix B**.

Boring locations were recorded by means of a Geode GNS3S 1-foot accuracy GPS. A GPS coordinate data table is presented in **Appendix C**.

2.4 Soil Vapor Screening

Soil cores collected from the acetate liners via the direct-push probing rig were field screened for organic vapors via headspace analysis (i.e., vapor screening). The acetate liners were split open, and the soil cores were immediately screened with a RAE Systems MiniRAE 3000 PID equipped with a 10.6eV bulb calibrated on 100 ppm isobutylene span gas. PID readings were recorded in the field and are reported in the soil boring logs in **Appendix B**.

2.5 Soil Sampling

The subsurface investigation was conducted July 10, 2024, for the purpose of determining subsurface environmental conditions on the Subject Property. The locations of the borings were selected based on information obtained from the Phase II ESA (BCA, 2019) to further assess the extent and magnitude of impacts. For specific information about the locations of the borings, see the SAP in **Appendix A**.

A total of 7 probes were advanced throughout the Subject Property. Seven (7) soil and groundwater probes (SP-3R, SP-6--SP-11) were advanced to 5-feet past first groundwater or until refusal was met, whichever was shallower. All locations were placed on the Subject Site as indicated below and on the attached site map (**Figure 3**).

Soil cores were collected continuously throughout the depth of each of the probes. Recovered soil cores were field screened as described above in Section 2.4. At each of the soil and groundwater probes, at least one (1) soil VOC sample was collected from the interval with the highest PID reading observed during field screening. If no PID readings were observed during field screening, a VOC sample was collected at the interval directly above the water table.

Shallow soil samples were collected from some probes and were analyzed for PAHs. Soil intervals with indications of impacts, such as visual or olfactory, were also collected and analyzed for PAHs.

2.6 Groundwater Sampling

Groundwater was sampled from designated groundwater probes where measurable groundwater was encountered, using temporary 1” PVC sampling points with 5-feet of

screen. Temporary groundwater sampling points were allowed to equilibrate for over 24-hours before sampling.

Groundwater samples from probes from SP-7 through SP-11 were collected and analyzed for VOCs and PAHs.

Groundwater samples from probes SP-7 through SP-11 and SP-3R were collected and analyzed for arsenic/lead.

With the exceptions described below (if any), groundwater was purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (updated 12/12/2017) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, turbidity, and Oxygen Reduction Potential) were monitored and recorded at each sampling point during purging until at least three (3) parameters have stabilized. Micro-Purge sampling was conducted with dedicated HDPE tubing and a non-contact stainless steel submersible bladder pump equipped with a polyethylene bladder. If groundwater monitoring parameters did not stabilize, a sample was collected regardless, and a note recorded in the sample log.

Exceptions:
Groundwater was purged and sampled by bailer at SP-7, SP-8, SP-9, SP-3R due to low recharge rates at these sample locations. Approximately 500-2,000 mL of water were purged prior to sampling the groundwater at each of these locations. A groundwater sampling log is included in **Appendix D**.

3.0 RESULTS

Soil descriptions and the results of field screening are presented on boring logs in **Appendix B**. The analytical laboratory reports and chain-of-custody forms are presented in **Appendix E**, and laboratory results are summarized in Sections 3.3 – 3.5 below, in **Tables 1 – 5**, and on **Figures 3 – 5**.

3.1 Physical Setting/Subsurface Conditions

As estimated from the U.S. Geologic Survey 7.5 Minute Series Topographic Quadrangle Map for Bloomington, Indiana (2013; C.I. = 10 feet), the elevation of the site is approximately 750 feet above mean sea level, relative to the North American Vertical Datum of 1988. The Subject Property is situated on relatively level terrain. Surface drainage in the overall area of the Subject Property is generally to the south-southeast toward Clear Creek located 0.4 miles southeast of the Subject Property. However, surface drainage at the Subject Property is influenced somewhat by the adjacent streets and municipal storm water system.

3.1.1 Soils

The soil under the Subject Property is mapped as belonging to one (1) soil type (Web Soil Survey, 2023):

Ua Udorthents, loamy 100%
Udorthents are human-altered and human-transported (HAHT) soils and materials. HAHT soils include those intentionally and substantially modified by humans for specific purposes (e.g., terraced agriculture, building support, mining, transportation, etc.). They do not include soils modified through standard agricultural practices (such as shallow plowing, liming, and fertilization) or farmed soils with unintended wind and water erosion.

3.1.2 Surficial Geology

The area of the Subject Property is underlain by approximately 5 to 15 feet of unconsolidated deposits that lie on Mississippian age bedrock (Fenelon, et al, 1994). The total thickness of unconsolidated deposits overlying bedrock in Monroe County is commonly reported as 6 to 25 feet. The unconsolidated sediments consist of Terra Rossa – red, clayey regolith, 5 to 50 feet thick, over limestone of Middle Mississippian age.

3.1.3 Bedrock Geology

The Subject Property and surrounding area lie within the Mitchell Plateau physiographic unit within the Southern Hills and Lowlands regional physiographic province (Gray, 2000).

The Mitchell Plateau is bounded by the older rocks of Norman Upland on the east and the younger rocks of the Crawford Upland to the west. The Mitchell Plateau (also referred to as the Mitchell Plain) is a karst area in Indiana of relatively low relief. An extensive underlying cave system developed in Mississippian age limestone bedrock. Surface drainage is rare due to most streams in the area disappearing into caves or joints within the rock.

Bedrock at the site is reported to be the Mississippian-aged Sanders Group (that includes the Harrodsburg and Salem Limestones). The Sanders Group consists of a variety of carbonate rocks in complex facies relationships. The Ramp Creek and Muldraugh Formations at the base of the group are dominantly a mixture of fine-grained dolomite and limestone. Cherty and siliceous intervals are common, and minor amounts of siltstone and shale are present. Above that interval in the Harrodsburg Limestone, well-cemented bioclastic calcarenites and calcirudites are dominant over argillaceous limestone, dolosiltites, and shale. The abundance of geodes and chert decreases upward in the group. The Salem Limestone except for the Somerset Shale Member at its base is dominated by porous calcarenite, although it contains a wide variety of other kinds of limestone.

3.1.4 Hydrology

Surface Water
The Subject Site lies within the East Fork White River basin, which has a total drainage area of 5,746 square miles in south-central Indiana. In general, drainage of the Mitchell Plain (including the Subject Site) in Monroe County is considerably different from the rest of the basin; most runoff quickly leaves the surface by entering sinkholes and becoming part of the groundwater system. In the streams that do flow across the Mitchell Plain, some surface water is intercepted by swallow holes and diverted underground into either the groundwater system or subterranean channels (Fenelon, 1994). Surface water drainage at the Subject Site is generally to the east toward a Clear Creek tributary located 0.16 miles to the southeast.

Unconsolidated Aquifer System
The Subject Site lies in the Dissected Till and Residuum / Unglaciated Southern Hills and Lowlands Aquifer System. Total thickness of unconsolidated deposits overlying bedrock is commonly 6 to 25 feet. Clay material dominates this unconsolidated aquifer system; however, discontinuous sand or gravel deposits are reported. These deposits are commonly 1 to 3 feet thick. Because of the low permeability of surface materials, this system is not considered very susceptible to contamination from surface sources.

Bedrock Aquifer System
The Blue River and Sanders Groups occur as the uppermost bedrock aquifer system over most of the west-central portion of Monroe County. Depth to bedrock is generally between 5 and 30 feet. The Blue River and Sanders Groups Aquifer System is not regarded as a major ground-water resource in the county. Static water levels range from 0 feet to 197 feet below land surface but generally between 15 and 75 feet below surface. Areas of shallow bedrock, especially where joints, fractures, and solution features are present, may allow contamination. These conditions warrant considering the aquifer system to be susceptible to contaminants introduced at and near land surface.

A report pertaining to the nearby Indiana Gas Company site 200 feet to the west of the Subject Property suggests the groundwater flow direction is to the southeast (VFC Document # 47437557). Based on environmental reports for the Josephine Brown Trust Property 75 feet east of the Subject Property, local groundwater flow around the Subject Property is to the south to southeast (VFC Document # 14582194). The regional groundwater flow in the area is predominately to the south in general conformance with surface topography/drainage and the regional attitude of underlying bedrock.

3.1.5 Subject Property Physical Observations

Based on probes advanced on the Subject Site, the soils consist of mostly clays and sandy clays to various depths of 10.5 – 18 feet bgs. Bedrock and/or refusal was encountered in all deep soil and groundwater sampling points. Depth to bedrock/refusal was reported between 10 ft bgs and 18 ft bgs. Static water level readings from the temporary groundwater sample points ranged from 7 to 11 feet bgs.

3.2 Laboratory Analysis of Samples

All soil and groundwater samples were analyzed by Pace Analytical Laboratories of Indianapolis, Indiana. All soil and groundwater samples were stored on ice and/or refrigerated until couriered to the laboratory. Analytical laboratory reports and chain-of-custody documents are included in **Appendix E**.

Not including QA/QC samples, a total of 8 soil samples were analyzed for VOCs by EPA Method 8260, 12 soil samples were analyzed for PAHs by EPA Method 8270 SIM.

Not including QA/QC samples, a total of five (5) groundwater samples were analyzed for VOCs by EPA Method 8260, five (5) groundwater samples were analyzed for PAHs by EPA Method 8270 SIM, and six (6) for arsenic/lead by EPA Method 6010.

QA/QC samples included both field and laboratory samples. One (1) soil field duplicate and one (1) MS/MSD sample was collected and analyzed for each VOCs, PAHs, and arsenic by EPA Methods 8260, 8270 SIM, and 6010, respectively. One (1) soil trip blank was analyzed for VOCs by EPA Method 8260. One (1) groundwater field duplicate and MS/MSD sample was collected and analyzed for each VOCs, PAHs, and arsenic/lead by EPA Methods 8260, 8270 SIM, and 6010, respectively. One (1) equipment blank was collected and analyzed for VOCs by EPA Method 8260 and PAHs by EPA Method 8270 SIM. One (1) trip blank was analyzed for VOCs by EPA Method 8260. Laboratory QA/QC included method blanks, LCS, and internal surrogate standards. For results of QA/QC sampling and analysis see "Data Assessment" in Sections 3.3 – 3.5 below.

3.3 Soil Results

Analytical laboratory reports are included in **Appendix E** and the soil sample analytical results are summarized in **Tables 1 – 2** and on **Figure 4**. Detected analytical concentrations were compared to applicable IDEM's R2 PLs (Risk-based Closure Guide (R2), Table 1: 2024 IDEM OLQ Published Levels).

VOCs:

Up to two (2) soil samples from soil and groundwater probes were analyzed for VOCs by EPA Method 8260.

No VOCs were detected above the R2 Residential PLs. Soil samples from SP-7, SP-8, SP-10, had at least one (1) VOC detection greater than the Migration to Groundwater (MTGW) screening level from the 2022 Remediation Closure Guide.

PAHs:

Up to three (3) soil samples from designated probes were analyzed for PAHs by EPA Method 8270 SIM.

No PAHs were detected above the R2 Residential PLs. Soil samples from SP-8 and SP-11 had at least one (1) detection of naphthalene greater than the MTGW screening level from the 2022 Remediation Closure Guide.

Data Assessment:

QA/QC samples collected during the soil sampling included field duplicate and MS/MSD samples. No field equipment blank was collected since only single-use disposable supplies contacted the soil samples. A trip blank accompanied the sample set during sampling and was analyzed for VOCs. Trace levels of acetone, n-hexane, 1-methylnapthalene, trichloroethene, and trichlorofluoromethane were detected in the trip

blank. These detections were far below the PLs and do not impact the results or recommendations of this report. The field duplicate and MS/MSD samples were analyzed for VOCs by EPA Method 8260 and PAHs by EPA Method 8270SIM.

For all but 9 VOCs, and 12 PAHs analytes were below detection limits in both the sample and the field duplicate, equating to a zero percent relative difference (0% RPD). For soil field duplicates with detections, the RPD ranged from 10% to 38% for VOCs and 5% to 37% for PAHs. Of the duplicate detections, four (4) VOCs and five (5) PAHs had detections were greater than about five times the reporting limit (>5 x RL) for both the sample and field duplicate. Of the nine (9) analytes with detections >5x RL, none had a field duplicate RPD greater than the notice limit of 50% for soil. Thus, RPD data were below the notice limit for 100% of the field duplicate analytes >5x RL which meets the EPA DQO minimum of 75%. Therefore, homogeneity was observed in this sample set.

The MS/MSD sample results were generally within control limits for VOCs and PAHs. The few analytes out of control limits were due to high concentrations in the samples relative to the spike level, not detected in the sample or if detected was far below the PL, or the results were accepted based on other measures. Laboratory QA/QC samples (method blanks, LCS and surrogate spikes) were within control limits.

A Level III QA/QC data package is included with the lab report in **Appendix E**.

3.4 Groundwater Results

Laboratory reports are included in **Appendix E** and the groundwater analytical results are summarized in **Tables 3 – 5** and on **Figure 5**. Detected analytical concentrations were compared to applicable IDEM's R2 PLs (Risk-based Closure Guide (R2), Table 1: 2024 IDEM OLQ Published Levels).

VOCs:

One (1) groundwater sample from each temporary well was analyzed for VOCs by EPA Method 8260.

Benzene exceeded the R2 Residential Groundwater PL (5 ug/L) in the samples from:

SP-7 (228 ug/L)
SP-8 (540 ug/L)
SP-9 (42.5 ug/L)
SP-10 (241 ug/L)

1-Methylnaphthalene exceeded the R2 Residential Groundwater PL (10 ug/L) in the samples from:

SP-7 (16.7 ug/L)
SP-8 (23.0 ug/L)
SP-9 (14.4 ug/L)

Naphthalene exceeded the R2 Residential Groundwater PL (1 ug/L) in the samples from:

SP-8 (8.8 ug/L)
SP-10 (2.7 ug/L)

No other VOCs were detected above the R2 PLs in any of the samples analyzed.

PAHs:

One (1) groundwater sample from each temporary well (was analyzed for PAHs by EPA Method 8270 SIM.

1-Methylnaphthalene exceeded the R2 Residential Groundwater PL (10 ug/L) in the samples from:

SP-7 (20.2 ug/L)
SP-8 (26.2 ug/L)
SP-9 (18.6 ug/L)
SP-10 (12.5 ug/L)

Naphthalene exceeded the R2 Residential Groundwater PL (1 ug/L) in the samples from:

SP-8 (13.7 ug/L)
SP-10 (2.6 ug/L)

No other PAHs were detected above the R2 PLs in any of the samples analyzed.

Metals:

One (1) groundwater sample from designated temporary wells was analyzed for arsenic and lead by EPA Method 6010.

Arsenic exceeded the R2 Residential Groundwater PL (10 ug/L) in the samples from:

SP-7 (23.3 ug/L)
SP-8 (58.3 ug/L)
SP-9 (20.8 ug/L)
SP-10 (101 ug/L)
SP-10 FF (13.7 ug/L)
SP-11 (27.9 ug/L)

SP-11 DUP (26.6 ug/L)
SP-11 FF (11.8 ug/L)

Lead exceeded the R2 Residential Groundwater PL (15 ug/L) in the samples from:
SP-7 (30.1 ug/L)
SP-8 (118 ug/L)
SP-9 (16.3 ug/L)
SP-10 (240 ug/L)
SP-10 FF (21.9 ug/L)
SP-11 (24.5 ug/L)
SP-11 DUP (22.5 ug/L)

Data Assessment:

QA/QC samples collected during groundwater sampling included a field duplicate, MS/MSD, equipment blank, and trip blank. The field duplicate and MS/MSD were analyzed for VOCs by EPA Method 8260, PAHs by EPA Method 8270SIM, and arsenic and lead by EPA Method 6010. The equipment blank was analyzed for VOCs by EPA Method 8260, PAHs by EPA Method 8270SIM and arsenic and lead by EPA Method 6010. The trip blank was analyzed for VOCs by EPA Method 8260. No compounds were detected in the equipment blank or trip blank.

For all but 14 VOCs, and 2 PAHs, and 2 metals analytes were below detection limits in both the sample and the field duplicate, equating to a zero percent relative difference (0% RPD). For the groundwater field duplicate detections, the RPD ranged from 1% to 12% for VOCs, 5% to 7% for PAHs, and 4% to 9% for metals. Of the duplicate detections, two (2) VOCs and two (2) PAH analytes were greater than five (5) times the reporting limit (>5x RL). None of the four (4) detections >5x RL had a field duplicate RPD greater than the notice limit of 35% for groundwater. Thus, 100% of the analyte detections >5x RL were below the notice limit which meets the EPA DQO of at least 75%. Thus, homogeneity was observed in this groundwater sample set.

The groundwater MS/MSD sample results were almost all within control limits for VOCs, PAHs, and arsenic/lead. One (1) analyte was out of control limits due to sample concentration being 5x the spike level. Laboratory QA/QC included method blanks, LCS, and surrogate spikes. Laboratory QA/QC results were within control limits.

A Level III QA/QC data package is included with the lab report in **Appendix E**.

4.0 DISCUSSION and CONCLUSIONS

Discussion

Sampling for this Supplemental Phase II ESA was conducted on July 10th of 2024, for the purpose of further assessing subsurface conditions in the affected area of the Subject Property. The investigation included advancing five (5) soil and groundwater probes and two (2) soil-only probes on the Subject Property. Soil samples were collected from each boring location and were analyzed for VOCs and PAHs. Groundwater samples were analyzed for VOCs, PAHs, arsenic and lead.

The following analytes were found in exceedance of IDEM PLs:

Soil VOCs and PAHs

No VOCs or PAHs were detected above the R2 Residential PLs. Soil samples from SP-7, SP-8 and SP-11 had at least one (1) VOC or PAH detection greater than the Migration to Groundwater screening level from the 2022 Remediation Closure Guide. The highest concentrations are in the northeast area of the Subject Property between 6 and 12 feet of depth, and exceedances appear to be localized in this area. Due to the historical nature of the Subject Property and the depths of these impacts, the source is likely from on-site historical usage of the property, such as the historical operation of a filling station on the northeast corner of the Subject Property.

Groundwater VOCs

Benzene and 1-Methylnaphthalene exceeded the R2 Residential PLs in the samples from SP-7, SP-8, and SP-9. Benzene also exceeded the R2 Residential PL in the sample from SP-10. The highest VOC concentrations were detected in the northeast area of the Subject Property, and exceedances appear to be localized in this area. Groundwater samples were collected from the shallow unconsolidated aquifer at a depth of 10 to 20 feet bgs. Due to the historical nature of the Subject Property, the source is likely from on-site historical usage of the property, such as the historical operation of a filling station on the northeast corner of the Subject Property.

Groundwater PAHs

The highest concentrations of 1-Methylnaphthalene and Naphthalene were observed at SP-8 and exceeded the R2 Residential PLs. Detections of 1-Methylnaphthalene and/or Naphthalene also exceeded their R2 Residential PLs at SP-7, SP-9, and SP-10. The highest PAH concentrations were detected in the northeast area of the Subject Property, and exceedances appear to be localized in this area. Groundwater samples were collected from the shallow unconsolidated aquifer at a depth of 10 to 20 feet bgs. Due to the historical nature of the Subject Property, the source is likely from on-site historical

usage of the property, such as the historical operation of a filling station on the northeast corner of the Subject Property.

Groundwater Metals

Arsenic and Lead exceeded the R2 Residential PL in the unfiltered and filtered sample collected at SP-10. Arsenic slightly exceeded the R2 Residential PL in the unfiltered and filtered sample collected at SP-11. Sediment in the groundwater sample, even the filtered sample may have caused or contributed to the elevated levels of metals in the groundwater. However, the possibility of dissolved or mobile phase arsenic and/or lead at SP-10 and SP-11 cannot be completely ruled out. The former operation of a filling station in this area of the Subject Property is also a potential source of elevated concentrations of metals in the groundwater.

Conclusions

Based on the results of this assessment and previous assessments, BCA draws the following conclusions:

Soil

Arsenic exceeds the R2 Residential PL in shallow (<4' bgs) soil samples at SP-1, SP-2, SP-3, and SP-4. These soil arsenic impacts were observed during the 2019 Phase II ESA (BCA, 2019). The average concentration of arsenic in shallow soil across the Subject Property is 9.8 mg/kg, which does not exceed the R2 Residential PL.

Thallium exceeds the R2 Residential PL in the shallow soil at SP-1 (BCA 2019). The average concentration of thallium in shallow soil across the Subject Property is 0.8 mg/kg, which does not exceed the R2 Residential PL.

Groundwater

Petroleum impacts in the VOC and PAH range exceeded the R2 Residential PLs in the groundwater in the northeast corner of the Subject Property during this Supplemental Phase II ESA and in the previous Phase II ESA (BCA, 2019). The highest concentrations of VOCs and PAHs were observed at SP-8, but were also found in SP-7, 9, 10 from this investigation and SP-4 and 5 from the previous assessment (BCA 2019). Impacted water at the Subject Property appears to be related to the soil impacts above the RCG MTGW and the historical use of the Subject Property.

Arsenic was observed in the unfiltered and filtered groundwater at SP-5, SP-10, and SP-11 above the R2 Residential PL. Arsenic found in the unfiltered and filtered groundwater could be related to sediment in the turbid groundwater samples; however, the

exceedances could also be related to dissolved or mobile arsenic in the groundwater at these locations.

Lead was observed in the unfiltered and filtered groundwater at SP-10 above the R2 Residential PL. Lead found in the unfiltered and filtered groundwater could be related to sediment in the turbid groundwater sample; however, the exceedances could also be related to dissolved or mobile lead in the groundwater at this location due to the historical operation of a filling site in this area of the Subject Property.

Exposure Pathways and Future Planning

The primary exposure pathway requiring consideration for VOCs and PAHs in the soil is by direct contact with the soil. There is currently no direct contact exposure to impacted soil at the Subject Property. Potential future exposure can be addressed via institutional controls, by IDEM approval of a site average, and/or by removal of impacted soil from the Subject Property.

The potential exposure pathway for petroleum constituents and metals in groundwater is through ingestion. A public water supply is provided at the Subject Property and surrounding area by a local water utility. Private groundwater resources are not used at the Subject Property or immediately surrounding area. Therefore, no exposure via ingestion of groundwater currently exists. Potential future exposure can be addressed via institutional controls or by remediation of impacts at the Subject Property.

5.0 RECOMMENDATIONS

Based on the results of this Supplemental Phase II ESA conducted at the Subject Property located at 216 S. College Ave. Bloomington, Indiana, BCA recommends the following:

- Further investigation to delineate petroleum impacts in soil and groundwater;
- Further investigation to confirm the groundwater metal impacts detected at SP-10 and SP-11 are in a dissolved or mobile phase;
- If future land use includes a building on the northeast corner of the Subject Property, conduct a limited soil gas survey in that area;
- In lieu of further investigation, develop a plan for site remediation. Remediate impacts or restrict future land-use through an Environmental Restrictive Covenant (ERC) with a Soil Management Plan (or another administrative tool) to eliminate potential exposure pathways to impacted soil and groundwater.

6.0 REFERENCES

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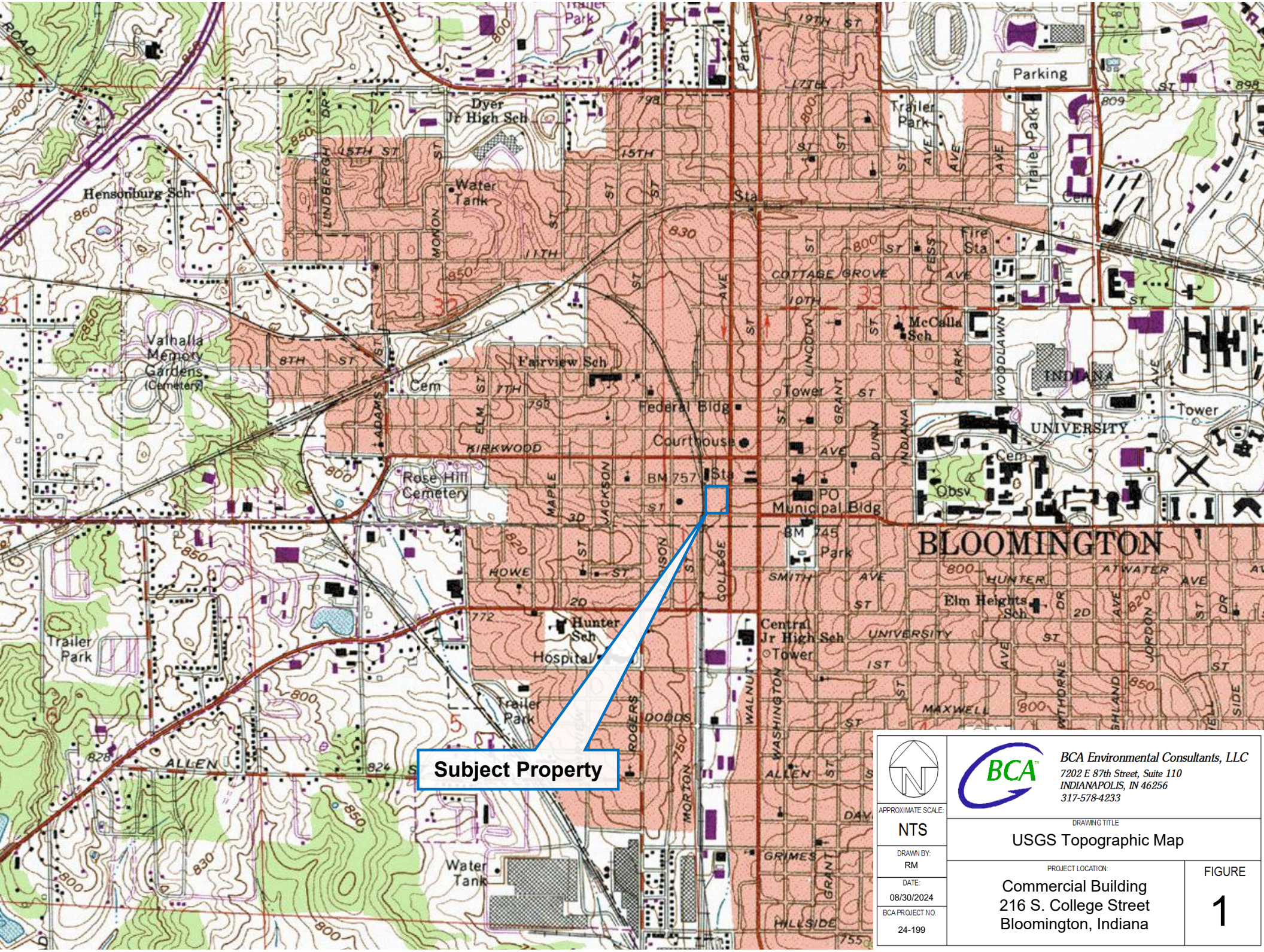
Figures

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN



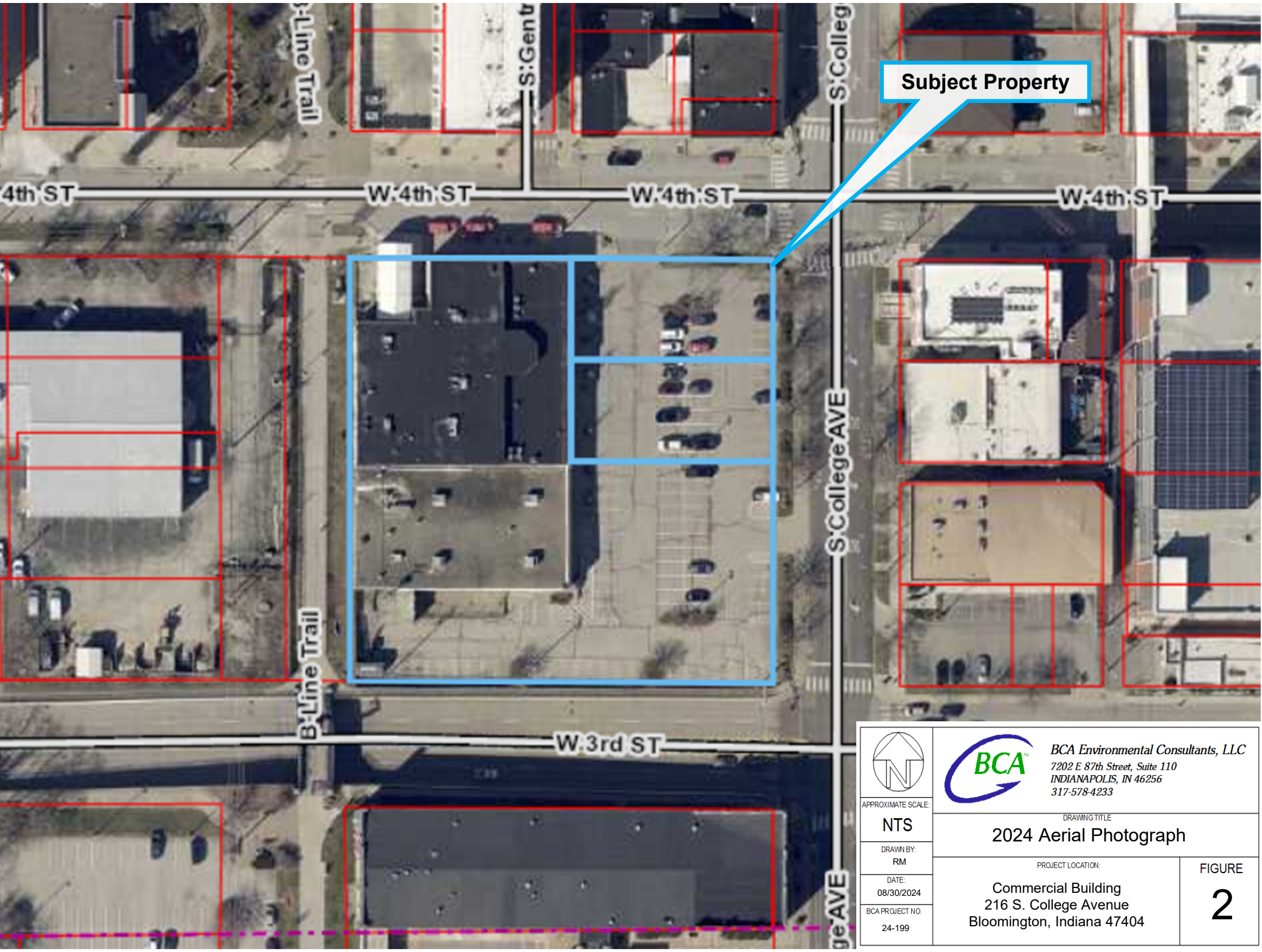
BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
INDIANAPOLIS, IN 46256
317-578-4233

APPROXIMATE SCALE:	NTS
DRAWN BY:	RM
DATE:	08/30/2024
BCA PROJECT NO.	24-199

DRAWING TITLE: USGS Topographic Map

PROJECT LOCATION: Commercial Building, 216 S. College Street, Bloomington, Indiana

FIGURE 1



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APPROXIMATE SCALE:	NTS
DRAWN BY:	RM
DATE:	08/30/2024
BCA PROJECT NO.	24-199

DRAWING TITLE

2024 Aerial Photograph

PROJECT LOCATION:

Commercial Building
216 S. College Avenue
Bloomington, Indiana 47404

FIGURE

2

308 W. 4th

Grass

Grass

B-Line Trail

217 W. Kirkwood

210 W 4th

120 S. College

122 S. College

122 S. Walnut

LEGEND:

PROPERTY BOUNDARY

HISTORIC SAMPLE LOCATION (BCA Phase II, 2019)

SOIL SAMPLING LOCATION

SOIL/GROUNDWATER PROBE

W. 4th Street

W. 4th Street

S. College Avenue

Walkway - Bridge

W. 4th Street

Grass

Parking Lot

B-Line Trail

Parking Lot

SP-1

SP-6

SP-5

SP-7

201 S. College

109 W. 4th

SP-11

SP-4

Subject Property
216 S. College

SP-8

209 S. College

SP-9

SP-10

Parking Garage

205 S. Madison

Parking Lot

Parking Lot

211 S. College

SP-3

SP-3R

Parking Lot

SP-2

Parking Lot

Parking Lot

222 S. Walnut

B-Line Trail

W. 3rd Street

W. 3rd Street

S. College Avenue

0 50 100 200

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Indianapolis, IN 46256
317-578-4233

DATE: 8/28/2024

SCALE: 1" = 50'

DRAWING TITLE
Site Map
Sample Locations

PROJECT LOCATION:
216 S. College Avenue
Bloomington, Indiana

DRAWN BY: PM

BCA PROJECT NO. 24-199

FIGURE 3

X:\BCA_Environmental\Bloomington_IN\216SCollegeAve\Drawings\216SCA_BloomingtonIN_Ph2.dwg; F3_SM August 28, 2024

308 W. 4th

Grass

Grass

B-Line Trail

217 W. Kirkwood

210 W 4th

120 S. College

122 S. College

W. 4th Street

W. 4th Street

S. College Avenue

Grass

Parking Lot

B-Line Trail

Parking Lot

SP-1

SP-6

SP-7

SP-5

SP-11

SP-4

Subject Property
216 S. College

SP-8

SP-9

SP-10

Parking Lot

205 S. Madison

Parking Lot

Parking Lot

SP-3

SP-3R

SP-2

Parking Lot

B-Line Trail

201 S. College

109 W. 4th

209 S. College

Parking Garage

211 S. College

Parking Lot

222 S. Walnut

W. 3rd Street

W. 3rd Street

S. College Avenue

Sample ID	SP-7
Sample Date	7/10/2024
VOCs (7')	
All VOCs	<R2
PAHs (7-9')	
All PAHs	<R2
PAHs (10-12')	
All PAHs	<R2

Sample ID	SP-7 DUP
Sample Date	7/10/2024
VOCs (7')	
All VOCs	<R2
PAHs (10-12')	
All PAHs	<R2

Sample ID	SP-6
Sample Date	7/10/2024
VOCs (11')	
All VOCs	<R2
PAHs (6-7')	
All PAHs	<R2

Sample ID	SP-11
Sample Date	7/10/2024
VOCs (7')	
All VOCs	<R2
PAHs (0-2')	
All PAHs	<R2
PAHs (2-4')	
All PAHs	<R2
PAHs (5-7')	
All PAHs	<R2

Sample ID	SP-8
Sample Date	7/10/2024
VOCs (6')	
All VOCs	<R2
VOCs (12')	
All VOCs	<R2
PAHs (7-10')	
All PAHs	<R2
PAHs (10-12')	
All PAHs	<R2

Sample ID	SP-9
Sample Date	7/10/2024
VOCs (10.5')	
All VOCs	<R2
PAHs (7-10')	
All PAHs	<R2
PAHs (10-12')	
All PAHs	<R2

Sample ID	SP-10
Sample Date	7/10/2024
VOCs (11')	
All VOCs	<R2
PAHs (0-2')	
All PAHs	<R2
PAHs (5-7')	
All PAHs	<R2

Sample ID	SP-3R
Sample Date	7/10/2024
VOCs (10')	
All VOCs	<R2

LEGEND:

- PROPERTY BOUNDARY
- HISTORIC SAMPLE LOCATION (BCA Phase II, 2019)
- SOIL SAMPLING LOCATION
- SOIL/GROUNDWATER PROBE

NOTES:

mg/kg	ALL SAMPLES ARE REPORTED IN MILLIGRAMS PER KILOGRAM
R2	RISK-BASED CLOSURE GUIDE
DCPL	DIRECT CONTACT PUBLISHED LEVELS
VOCs	VOLATILE ORGANIC COMPOUNDS
PAHs	POLYNUCLEAR AROMATIC HYDROCARBONS
BDL	BELOW DETECTION LIMITS
xx	SAMPLE EXCEEDS R2 RESIDENTIAL DIRECT CONTACT PUBLISHED LEVELS
xx	SAMPLE EXCEEDS R2 COMMERCIAL/INDUSTRIAL DIRECT CONTACT PUBLISHED LEVELS
xx	SAMPLE EXCEEDS R2 EXCAVATION DIRECT CONTACT PUBLISHED LEVELS

0 50 100 200

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

DATE: 8/28/2024

SCALE: 1" = 50'

DRAWING TITLE: Soil Exceedances Analytical Results

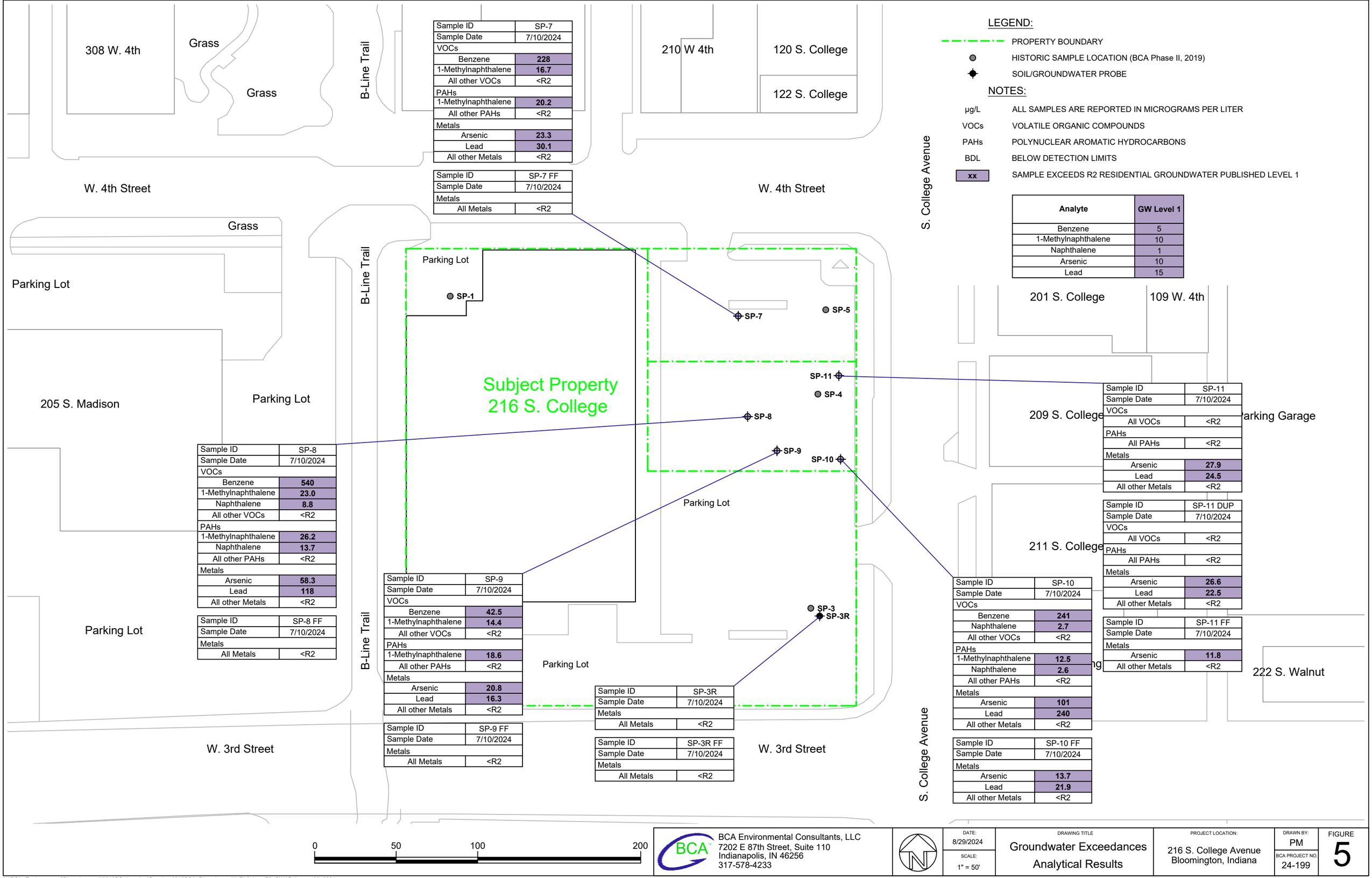
PROJECT LOCATION: 216 S. College Avenue Bloomington, Indiana

DRAWN BY: PM

BCA PROJECT NO. 24-199

FIGURE 4

X:\BCA_Environmental\Bloomington_IN\216SCollegeAve\Drawings\216SCA_BloomingtonIN_Ph2.dwg; F4_SBAD August 28, 2024



Sample ID	SP-7
Sample Date	7/10/2024
VOCs	
Benzene	**228**
1-Methylnaphthalene	**16.7**
All other VOCs	<R2
PAHs	
1-Methylnaphthalene	**20.2**
All other PAHs	<R2
Metals	
Arsenic	**23.3**
Lead	**30.1**
All other Metals	<R2

Sample ID	SP-7 FF
Sample Date	7/10/2024
Metals	
All Metals	<R2

Sample ID	SP-8
Sample Date	7/10/2024
VOCs	
Benzene	**540**
1-Methylnaphthalene	**23.0**
Naphthalene	**8.8**
All other VOCs	<R2
PAHs	
1-Methylnaphthalene	**26.2**
Naphthalene	**13.7**
All other PAHs	<R2
Metals	
Arsenic	**58.3**
Lead	**118**
All other Metals	<R2

Sample ID	SP-8 FF
Sample Date	7/10/2024
Metals	
All Metals	<R2

Sample ID	SP-9
Sample Date	7/10/2024
VOCs	
Benzene	**42.5**
1-Methylnaphthalene	**14.4**
All other VOCs	<R2
PAHs	
1-Methylnaphthalene	**18.6**
All other PAHs	<R2
Metals	
Arsenic	**20.8**
Lead	**16.3**
All other Metals	<R2

Sample ID	SP-9 FF
Sample Date	7/10/2024
Metals	
All Metals	<R2

Sample ID	SP-3R
Sample Date	7/10/2024
Metals	
All Metals	<R2

Sample ID	SP-3R FF
Sample Date	7/10/2024
Metals	
All Metals	<R2

Sample ID	SP-10
Sample Date	7/10/2024
VOCs	
Benzene	**241**
Naphthalene	**2.7**
All other VOCs	<R2
PAHs	
1-Methylnaphthalene	**12.5**
Naphthalene	**2.6**
All other PAHs	<R2
Metals	
Arsenic	**101**
Lead	**240**
All other Metals	<R2

Sample ID	SP-10 FF
Sample Date	7/10/2024
Metals	
Arsenic	**13.7**
Lead	**21.9**
All other Metals	<R2

Sample ID	SP-11
Sample Date	7/10/2024
VOCs	
All VOCs	<R2
PAHs	
All PAHs	<R2
Metals	
Arsenic	**27.9**
Lead	**24.5**
All other Metals	<R2

Sample ID	SP-11 DUP
Sample Date	7/10/2024
VOCs	
All VOCs	<R2
PAHs	
All PAHs	<R2
Metals	
Arsenic	**26.6**
Lead	**22.5**
All other Metals	<R2

Sample ID	SP-11 FF
Sample Date	7/10/2024
Metals	
Arsenic	**11.8**
All other Metals	<R2

LEGEND:

- PROPERTY BOUNDARY
- HISTORIC SAMPLE LOCATION (BCA Phase II, 2019)
- SOIL/GROUNDWATER PROBE

NOTES:

µg/L	ALL SAMPLES ARE REPORTED IN MICROGRAMS PER LITER
VOCs	VOLATILE ORGANIC COMPOUNDS
PAHs	POLYNUCLEAR AROMATIC HYDROCARBONS
BDL	BELOW DETECTION LIMITS
xx	SAMPLE EXCEEDS R2 RESIDENTIAL GROUNDWATER PUBLISHED LEVEL 1

Analyte	GW Level 1
Benzene	5
1-Methylnaphthalene	10
Naphthalene	1
Arsenic	10
Lead	15

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

DATE: 8/29/2024

SCALE: 1" = 50'

DRAWING TITLE: Groundwater Exceedances Analytical Results

PROJECT LOCATION: 216 S. College Avenue Bloomington, Indiana

DRAWN BY: PM

BCA PROJECT NO. 24-199

FIGURE 5

Tables

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

Table 1
Soil Analytical Results
VOCs

Project ID	Sample ID	Collected Date	Units	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	1-Methylnaphthalene	2-Methylnaphthalene	n-Propylbenzene	Toluene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	Other VOCs
			CAS Number	67-64-1	71-43-2	104-51-8	135-98-8	98-06-6	100-41-4	110-54-3	98-82-8	99-87-6	90-12-0	91-57-6	103-65-1	108-88-3	79-01-6	75-69-4	95-63-6	108-67-8	1330-20-7	Varies
R2 Residential Direct Contact Published Levels*			mg/kg	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**300**	**300**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**Varies**
R2 Commercial/Industrial Direct Contact Published Levels*			mg/kg	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**400**	**3000**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**Varies**
R2 Excavation Direct Contact Published Levels*			mg/kg	**100000**	**2000**	**100**	**100**	**200**	**500**	**100**	**300**	**---**	**400**	**7000**	**300**	**800**	**100**	**1000**	**200**	**200**	**300**	**Varies**
RCG Soil Migration to GW Screening Level*			mg/kg	**74**	**0.051**	**64**	**120**	**31**	**16**	**210**	**15**	**---**	**1.2**	**3.7**	**25**	**14**	**0.036**	**66**	**1.6**	**1.7**	**200**	**Varies**
216 S. College Ave 24-199	SP-3R 10'	07/10/2024 10:15	mg/kg	**0.0088 J**	<0.00018	<0.00040	<0.00027	<0.00020	<0.00027	<0.00052	<0.00025	<0.00033	**0.0025 J**	<0.0030	<0.00022	**0.0014 J**	<0.00041	<0.00042	<0.00074	<0.00028	<0.0023	BDL
216 S. College Ave 24-199	SP-6 11'	07/10/2024 08:30	mg/kg	<1.2	<0.020	<0.029	**0.46**	**0.12 J**	<0.020	<0.045	<0.026	<0.025	<0.17	<0.17	<0.023	<0.11	<0.044	<0.029	<0.021	<0.023	<0.055	BDL
216 S. College Ave 24-199	SP-7 7'	07/10/2024 08:50	mg/kg	<0.56	<0.018	**0.99**	**1.6**	**0.080 J**	<0.026	**1.9**	**1.9**	**0.26 J**	**1.4**	**1.7**	**3.0**	<0.047	<0.040	<0.040	<0.071	<0.027	<0.22	BDL
216 S. College Ave 24-199	SP-7 7' DUP	07/10/2024 08:50	mg/kg	<0.32	<0.010	**1.2**	**1.8**	**0.086 J**	<0.015	**2.8**	**2.1**	**0.31**	**1.4**	**1.9**	**3.5**	<0.027	<0.023	<0.024	<0.042	<0.016	<0.13	BDL
216 S. College Ave 24-199	SP-8 12'	07/10/2024 07:55	mg/kg	<0.0052	**0.14**	**0.0044 J**	**0.0046 J**	**0.00042 J**	**0.0010 J**	**0.12**	**0.0071**	**0.0016 J**	**0.019**	**0.021**	**0.0090**	**0.0050**	<0.00037	<0.00038	**0.0012 J**	**0.00089 J**	**0.018**	BDL
216 S. College Ave 24-199	SP-8 6'	07/10/2024 07:50	mg/kg	<0.37	<0.012	**0.91**	**0.51**	**0.036 J**	<0.017	**0.41**	**0.35**	**0.070 J**	**1.4**	**2.2**	**1.0**	<0.031	<0.026	<0.027	<0.047	<0.018	<0.15	BDL
216 S. College Ave 24-199	SP-9 10.5'	07/10/2024 08:15	mg/kg	<0.26	<0.0082	**0.62**	**0.50**	**0.030 J**	**0.17 J**	**11.6**	**0.83**	**0.27**	**0.86**	**1.5**	**1.4**	<0.022	<0.019	<0.019	<0.033	<0.012	**0.14 J**	BDL
216 S. College Ave 24-199	SP-10 11'	07/10/2024 09:50	mg/kg	<0.28	**0.082 J**	**0.52**	**0.38**	**0.024 J**	**0.53**	**13.8**	**0.78**	**0.30**	**0.51 J**	**0.99**	**1.2**	<0.024	<0.020	<0.021	<0.036	<0.014	**0.13 J**	BDL
216 S. College Ave 24-199	SP-11 7'	07/10/2024 09:25	mg/kg	<0.30	<0.0094	**1.6**	**1.2**	**0.069 J**	<0.014	**0.52**	**1.0**	**0.95**	**1.2**	**2.3**	**2.0**	<0.025	<0.021	<0.022	<0.038	<0.014	<0.12	BDL
216 S. College Ave 24-199	Trip Blank	07/10/2024 08:00	mg/kg	**0.0088 J**	<0.00017	<0.00038	<0.00026	<0.00019	<0.00025	**0.035**	<0.00024	<0.00031	**0.0018 J**	<0.0028	<0.00021	<0.00046	**0.0027 J**	**0.0032 J**	<0.00070	<0.00026	<0.0022	BDL

Notes:

Samples analyzed using EPA SW-846 Method 8260

mg/kg = milligrams per kilogram

VOCs = Volatile Organic Compounds

BDL - Below Detection Limits

[1] Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Published Levels Table - 2024

[2] RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 2
Soil Analytical Results
PAHs

Project ID	Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
			CAS Number	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	90-12-0	91-57-6	91-20-3	85-01-8	129-00-0
R2 Residential Direct Contact Published Levels*			mg/kg	**5000**	**---**	**30000**	**20**	**2**	**20**	**---**	**200**	**2000**	**2**	**3000**	**3000**	**20**	**300**	**300**	**30**	**---**	**3000**
R2 Commercial/Industrial Direct Contact Published Levels*			mg/kg	**50000**	**---**	**100000**	**200**	**20**	**200**	**---**	**2000**	**20000**	**20**	**30000**	**30000**	**200**	**400**	**3000**	**90**	**---**	**20000**
R2 Excavation Direct Contact Published Levels*			mg/kg	**100000**	**---**	**100000**	**10000**	**500**	**10000**	**---**	**100000**	**100000**	**1000**	**70000**	**70000**	**10000**	**400**	**7000**	**3000**	**---**	**50000**
RCG Soil Migration to GW Screening Level*			mg/kg	**110**	**---**	**1200**	**2.1**	**4.7**	**60**	**---**	**590**	**1800**	**19**	**1800**	**110**	**200**	**1.2**	**3.7**	**0.079**	**---**	**260**
216 S. College Ave 24-199	SP-6 (6-7')	07/10/2024 08:25	mg/kg	**0.011**	<0.0024	<0.0032	<0.0018	<0.0038	<0.0035	<0.0037	<0.0029	<0.0043	<0.0031	<0.0044	**0.019**	<0.0032	**0.019**	<0.0059	<0.0058	**0.010**	<0.0043
216 S. College Ave 24-199	SP-7 (10-12')	07/10/2024 08:55	mg/kg	**0.011**	<0.0024	<0.0032	**0.013**	**0.0085**	**0.0097**	**0.0046 J**	<0.0029	**0.032**	<0.0031	**0.023**	**0.036**	<0.0032	**0.50**	**0.83**	<0.0058	**0.079**	**0.025**
216 S. College Ave 24-199	SP-7 (10-12') DUP	07/10/2024 08:55	mg/kg	**0.016**	<0.0024	<0.0032	**0.016**	**0.0094**	**0.012**	**0.0042 J**	<0.0029	**0.036**	<0.0031	**0.029**	**0.045**	<0.0032	**0.69**	**1.2**	<0.0059	**0.083**	**0.031**
216 S. College Ave 24-199	SP-7 (7-9')	07/10/2024 08:50	mg/kg	**0.0082**	**0.0031 J**	<0.0031	**0.010**	**0.0059 J**	**0.0071**	<0.0036	<0.0028	**0.023**	<0.0030	**0.017**	**0.031**	<0.0031	**0.39**	**0.66**	<0.0056	**0.057**	**0.018**
216 S. College Ave 24-199	SP-8 (10-12')	07/10/2024 07:55	mg/kg	**0.0055 J**	**0.0051 J**	<0.0030	**0.0088**	**0.0042 J**	**0.0046 J**	<0.0036	<0.0028	**0.017**	<0.0030	**0.012**	**0.014**	<0.0031	**0.19**	**0.26**	**0.11**	**0.024**	**0.013**
216 S. College Ave 24-199	SP-8 (7-10')	07/10/2024 07:50	mg/kg	<0.0024	<0.0023	<0.0030	<0.0017	<0.0036	<0.0033	<0.0036	<0.0028	**0.0052 J**	<0.0029	**0.0046 J**	<0.0024	<0.0031	**0.12**	**0.23**	**0.17**	**0.0088**	**0.0044 J**
216 S. College Ave 24-199	SP-9 (10-12')	07/10/2024 08:15	mg/kg	<0.0023	<0.0021	<0.0029	**0.0047 J**	<0.0034	<0.0031	<0.0034	<0.0026	**0.0087**	<0.0028	**0.0062**	**0.0074**	<0.0029	**0.15**	**0.28**	<0.0052	**0.011**	**0.0057 J**
216 S. College Ave 24-199	SP-9 (7-10')	07/10/2024 08:10	mg/kg	**0.0046 J**	<0.0023	<0.0031	**0.0056 J**	<0.0036	<0.0034	<0.0036	<0.0028	**0.013**	<0.0030	**0.0099**	**0.012**	<0.0031	**0.20**	**0.32**	<0.0056	**0.016**	**0.0094**
216 S. College Ave 24-199	SP-10 (0-2')	07/10/2024 09:40	mg/kg	<0.0023	**0.021**	**0.0083**	**0.045**	**0.058**	**0.094**	**0.044**	<0.0026	**0.055**	**0.014**	**0.062**	**0.0096**	**0.037**	**0.026**	**0.050**	**0.016**	**0.031**	**0.076**
216 S. College Ave 24-199	SP-10 (5-7')	07/10/2024 09:45	mg/kg	<0.0025	<0.0024	<0.0031	<0.0018	<0.0037	<0.0035	<0.0037	<0.0029	<0.0043	<0.0031	<0.0044	<0.0025	<0.0032	**0.032**	**0.040**	<0.0058	<0.0045	<0.0043
216 S. College Ave 24-199	SP-11 (0-2')	07/10/2024 09:20	mg/kg	<0.011	<0.010	**0.037**	**0.086**	**0.11**	**0.11**	**0.062**	**0.039**	**0.16**	<0.013	**0.22**	**0.040**	**0.055**	**0.038**	**0.035**	**0.12**	**0.27**	**0.27**
216 S. College Ave 24-199	SP-11 (2-4')	07/10/2024 09:20	mg/kg	<0.0024	<0.0022	<0.0030	<0.0017	<0.0035	<0.0033	<0.0035	<0.0027	<0.0041	<0.0029	<0.0041	<0.0023	<0.0030	<0.0024	<0.0056	<0.0055	<0.0043	<0.0041
216 S. College Ave 24-199	SP-11 (5-7')	07/10/2024 09:25	mg/kg	<0.0025	<0.0023	<0.0031	<0.0018	<0.0037	<0.0034	<0.0037	<0.0029	<0.0043	<0.0030	<0.0043	<0.0024	<0.0032	<0.0025	<0.0058	<0.0057	<0.0045	<0.0043

Notes:

Samples analyzed using EPA SW-846 Method 8270 SIM

mg/kg = milligrams per kilogram

ppm - parts per million

PAHs - Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limits

Blank cells = Not Analyzed

--- No value given in the Remediation Closure Guide

[1] Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Published Levels Table - 2024

[2] RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 3
Groundwater Analytical Results
VOCs

Project ID	Sample ID	Collected Date	Units	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	n-Hexane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	Other VOCs
			CAS Number	71-43-2	78-93-3	104-51-8	135-98-8	98-06-6	100-41-4	110-54-3	98-82-8	99-87-6	90-12-0	91-57-6	91-20-3	103-65-1	108-88-3	95-63-6	108-67-8	1330-20-7	Varies
R2 Residential Groundwater Published Level [1]			ug/L	5	6000	1000	2000	700	700	2000	500	---	10	40	1	700	1000	60	60	10,000	Varies
216 S. College Ave 24-199	SP-7	07/10/2024 15:35	ug/L	**228**	<11.8	**5.2**	**8.7**	**0.82 J**	**6.3**	**85.0**	**52.5**	**3.7 J**	**16.7**	**11.5**	<0.88	**48.2**	**14.0**	**0.84 J**	**1.4 J**	**28.8**	BDL
216 S. College Ave 24-199	SP-8	07/10/2024 16:20	ug/L	**540**	<11.8	**5.7**	**6.1**	**0.48 J**	**26.3**	**142**	**25.0**	**4.4 J**	**23.0**	**27.2**	**8.8**	**35.0**	**14.7**	**22.9**	**11.7**	**59.9**	BDL
216 S. College Ave 24-199	SP-9	07/10/2024 15:48	ug/L	**42.5**	<11.8	**2.2 J**	**4.7 J**	**0.49 J**	**1.5 J**	**28.3**	**15.1**	**0.72 J**	**14.4**	**9.7 J**	<0.88	**13.3**	**3.5 J**	**0.57 J**	**0.50 J**	**13.0**	BDL
216 S. College Ave 24-199	SP-10	07/10/2024 13:56	ug/L	**241**	**40.4**	**3.0 J**	**3.5 J**	**0.57 J**	**13.3**	**106**	**14.8**	**2.3 J**	**9.2 J**	**11.0**	**2.7**	**12.5**	**9.7**	**7.1**	**4.3 J**	**23.0**	BDL
216 S. College Ave 24-199	SP-11	07/10/2024 14:49	ug/L	**2.1 J**	<11.8	**2.4 J**	**2.4 J**	**0.44 J**	**22.4**	**25.2**	**11.5**	**2.3 J**	**5.5 J**	**7.1 J**	<0.88	**13.5**	<1.3	**10.6**	**3.4 J**	**6.5 J**	BDL
216 S. College Ave 24-199	SP-11 DUP	07/10/2024 14:49	ug/L	**2.1 J**	<11.8	**2.4 J**	**2.6 J**	**0.49 J**	**25.2**	**25.2**	**12.2**	**2.4 J**	**5.0 J**	**7.0 J**	<0.88	**14.0**	<1.3	**12.0**	**3.6 J**	**7.3 J**	BDL
216 S. College Ave 24-199	EB-1	07/10/2024 16:45	ug/L	<0.37	<11.8	<0.35	<0.36	<0.33	<0.36	<0.50	<0.40	<0.32	<3.3	<3.2	<0.88	<0.35	<1.3	<0.41	<0.36	<1.3	BDL
216 S. College Ave 24-199	Trip Blank	07/10/2024 08:00	ug/L	<0.37	<11.8	<0.35	<0.36	<0.33	<0.36	<0.50	<0.40	<0.32	<3.3	<3.2	<0.88	<0.35	<1.3	<0.41	<0.36	<1.3	BDL
Field Duplicate RPD (SP-11 & Dup) [2]			%	**0.0%**	0.0%	**0.0%**	**8.0%**	**10.8%**	**11.8%**	**0.0%**	**5.9%**	**4.3%**	**9.5%**	**1.4%**	0.0%	**3.6%**	0.0%	12.4%	5.7%	11.6%	--

Notes:

Samples analyzed using EPA SW-846 Method 5030B/8260

ug/L = micrograms per liter

VOCs = Volatile Organic Compounds

BDL = Below Detection Limits

[1] Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Published Levels Table - 2024

[2] RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 4
Groundwater Analytical Results
PAHs

Project ID	Sample ID	Collected Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
			CAS Number	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	90-12-0	91-57-6	91-20-3	85-01-8	129-00-0
R2 Residential Groundwater Published Level [1]			ug/L	500	---	2000	0.3	0.2	3	---	30	300	0.3	800	300	3	10	40	1	---	100
216 S. College Ave 24-199	SP-7	07/10/2024 15:35	ug/L	**0.31 J**	**0.077 J**	<0.080	<0.064	<0.069	<0.064	<0.090	<0.067	<0.060	<0.075	**0.087 J**	**0.54 J**	<0.057	**20.2**	**14.1**	<0.40	**0.63 J**	<0.098
216 S. College Ave 24-199	SP-8	07/10/2024 16:20	ug/L	**0.46 J**	**0.30 J**	**0.13**	**0.36**	<0.072	**0.10 J**	<0.094	<0.070	**0.64**	<0.078	**0.25 J**	**0.52 J**	<0.060	**26.2**	**31.4**	**13.7**	**1.1**	**0.35 J**
216 S. College Ave 24-199	SP-9	07/10/2024 15:48	ug/L	**0.36 J**	**0.086 J**	<0.081	<0.065	<0.070	<0.065	<0.091	<0.068	<0.061	<0.076	<0.074	**0.28 J**	<0.058	**18.6**	**12.8**	<0.41	**0.24 J**	<0.099
216 S. College Ave 24-199	SP-10	07/10/2024 13:56	ug/L	**0.13 J**	<0.072	<0.080	<0.064	<0.069	<0.064	<0.090	<0.067	<0.060	<0.075	<0.073	<0.095	<0.057	**12.5**	**14.1**	**2.6**	<0.10	<0.098
216 S. College Ave 24-199	SP-11	07/10/2024 14:49	ug/L	<0.092	<0.072	<0.080	<0.064	<0.069	<0.064	<0.089	<0.067	<0.060	<0.075	<0.073	<0.094	<0.057	**6.2**	**9.4**	<0.40	<0.10	<0.097
216 S. College Ave 24-199	SP-11 DUP	07/10/2024 14:49	ug/L	<0.097	<0.075	<0.083	<0.067	<0.072	<0.067	<0.094	<0.070	<0.063	<0.078	<0.076	<0.099	<0.060	**5.9**	**8.8**	<0.42	<0.11	<0.10
216 S. College Ave 24-199	EB-1	07/10/2024 16:45	ug/L	<0.097	<0.075	<0.083	<0.067	<0.072	<0.067	<0.094	<0.070	<0.063	<0.078	<0.076	<0.099	<0.060	<0.089	<0.10	<0.42	<0.11	<0.10
Field Duplicate RPD (SP-11 & Dup) [2]			**%**	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	**5.0%**	**6.6%**	0.0%	0.0%	0.0%

Notes:
Samples analyzed using EPA SW-846 Method 8270 SIM
ug/L -- micrograms per kilogram
PAHs - Polynuclear Aromatic Hydrocarbons
--- No value given in the Remediation Closure Guide
[1] Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Published Levels Table - 2024
[2] RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

Table 5
Groundwater Analytical Results
Metals

Project ID	Sample ID	Collected Date	Units	Arsenic	Lead
			CAS Number	7440-38-2	7439-92-1
R2 Residential Groundwater Published Level [1]			ug/L	10	15
216 S. College Ave 24-199	SP-3R	07/10/2024 16:30	ug/L	**7.3 J**	**10.6**
216 S. College Ave 24-199	SP-3R FF	07/10/2024 16:30	ug/L	**5.5 J**	<2.0
216 S. College Ave 24-199	SP-7	07/10/2024 15:35	ug/L	**23.3**	**30.1**
216 S. College Ave 24-199	SP-7 FF	07/10/2024 15:35	ug/L	<4.3	<2.0
216 S. College Ave 24-199	SP-8	07/10/2024 16:20	ug/L	**58.3**	**118**
216 S. College Ave 24-199	SP-8 FF	07/10/2024 16:20	ug/L	**6.2 J**	<2.0
216 S. College Ave 24-199	SP-9	07/10/2024 15:48	ug/L	**20.8**	**16.3**
216 S. College Ave 24-199	SP-9 FF	07/10/2024 15:48	ug/L	<4.3	<2.0
216 S. College Ave 24-199	SP-10	07/10/2024 13:56	ug/L	**101**	**240**
216 S. College Ave 24-199	SP-10 FF	07/10/2024 13:56	ug/L	**13.7**	**21.9**
216 S. College Ave 24-199	SP-11	07/10/2024 14:49	ug/L	**27.9**	**24.5**
216 S. College Ave 24-199	SP-11 DUP	07/10/2024 14:49	ug/L	**26.6**	**22.5**
216 S. College Ave 24-199	SP-11 FF	07/10/2024 14:48	ug/L	**11.8**	**6.1 J**
216 S. College Ave 24-199	EB-1	07/10/2024 16:45	ug/L	<4.3	<2.0
Field Duplicate RPD (SP-11 & Dup) [2]			**%**	**4.8%**	**8.5%**

Notes:

Samples analyzed using EPA Method 6010

ug/L -- micrograms per Liter

[1] Risk-based Closure Guide (R2), Risk Screening Table, Table 1: Published Levels Table - 2024

[2] RPD = relative percent difference =ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is

Appendix A

Sampling and Analysis Plan and Health and Safety Plan

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

SAMPLING AND ANALYSIS PLAN
SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

Commercial Property
216 S. College Ave.
Bloomington, Indiana 47403
Cooperative Agreement # BF – 00E03051
BCA Project #24-199
May 13, 2024

1.0 BACKGROUND AND PURPOSE

BCA Environmental Consultants, LLC (BCA) was requested by Andrea de la Rosa, City of Bloomington, Indiana to propose a sampling plan for the Supplemental Phase II Environmental Site Assessment (ESA) of the commercial property at 216 S. College Avenue (Subject Property) (**Figures 1** & **2**). The assessment would be performed for the City of Bloomington through a U.S. EPA Community-Wide Brownfield Assessment Grant (Cooperative Agreement No. BF-00E03051).

The Subject Property comprises of three (3) parcels of land identified by two (2) parcel numbers (# 53-05-33-310-240.000-005 and # 53-05-33-310-243.000-005) totaling approximately 1.7 acres of land that is situated in the City of Bloomington, Monroe County, Indiana (Figure 1). The property is located on the south side of West 4th Street, on the north side of West 3rd Street and on the west side of South College Avenue. The surrounding area is a mix of commercial and municipal properties. The B-Line multi-use trail runs along the western property boundary. The Subject Property is currently owned by the City of Bloomington Redevelopment Commission.

A Phase I Environmental Site Assessment (ESA) of the Subject Property was conducted for the City of Bloomington by BCA Environmental Consultants, LLC (BCA) and is dated May 29, 2019. The Phase I ESA was funded through an U.S. EPA Brownfield Assessment Grant to the City of Bloomington (Cooperative Agreement BF-00E02280). The Phase I ESA identified the following Recognized Environmental Conditions (RECs) and Vapor Encroachment Conditions (VECs) in connection with the Subject Property:

On-site:

- Two (2) former gas stations in the northeast quadrant of the Subject Site;
- A trench-drain with an apparent oil-water separator (or grease trap) located just outside the northwest corner of the onsite building;
- Historical rail spur and coal piles along the western border of the property (mostly beneath the current building).

Off-site:

- Former manufactured gas plant (MGP) across the B-Line trail to the west of the Subject Site;
- Former LUST site (currently the Wonderlab museum) diagonally to the northwest of the Subject Site;
- Possible TCE plume that was identified on the 304 Kirkwood property (the Foundry, located approximately 440 feet north-northwest) and may run south to approximately ½ block west of the Subject Site.

BCA conducted a Phase II ESA for the City of Bloomington dated July 3, 2019, in accordance with the approved SAP dated May 13, 2019. The Phase II ESA was funded through an U.S. EPA Brownfield Assessment Grant (#BF-00E02280) to the City of Bloomington. The following summarizes the conclusions of the Phase II ESA.

Groundwater at the Subject Site has been impacted by petroleum constituents, likely from historical on-site activities/source(s), specifically the former filling station(s). The groundwater probes, SP-4 and SP-5, located on the northeastern section of the Subject Site were most effected. It is unknown if any petroleum constituents have migrated off the Subject Site.

There does not appear to be a potential for vapor migration exposure for the Subject Site or within the surrounding area from the locations sampled. Groundwater was encountered in the temporary wells from 7.46 – 8.95 feet bgs and the samples that exceed the IDEM R2 Groundwater PLs are covered by an asphalt parking lot and at distance from occupied structures. However, the extent of impacts has not been delineated.

Soil arsenic and thallium are above their R2 Residential PLs. However, the averages for arsenic and thallium in the shallow soil and for all soil are below the PLs and are likely mostly due to background. Almost all of the Subject Site is either paved with asphalt/concrete or covered by a building, preventing direct contact and minimizing rainwater infiltration. There is some potential that some of the metals impacts are from urban fill.

Groundwater detections that include arsenic and lead above the R2 Groundwater PLs are likely due to sediment. However, the possibility cannot be completely ruled out that dissolved metal impacts were present.

Another Phase I Environmental Site Assessment (ESA) of a portion of the Subject Property was conducted for the City of Bloomington by BCA Environmental Consultants, LLC (BCA) and is dated May 31, 2023. The Phase I ESA was funded through an U.S. EPA Brownfield Assessment Grant (#BF-00E03051) to the City of Bloomington (Cooperative Agreement BF- 00E03051). The Phase I ESA identified the following Recognized Environmental Conditions (RECs) and Vapor Encroachment Conditions (VECs) in connection with parcel #53-05-33-310-243.000-005 of the Subject Property:

- The detection of elevated concentrations of petroleum related compounds in the soil and groundwater at the Subject Property during the Phase II ESA in 2019 is a REC and a VEC.

- The historical utilization of the Subject Property as a gasoline filling station that operated on the Subject Property with multiple gasoline tanks from the 1920s through at least the late 1950s with no documentation of proper closure is a REC and a VEC.

- The historical presence of a battery and ignition service station on the Subject Property in the late 1940s, with no information of the operations is a REC.

The purpose of this Supplemental Phase II ESA is to further characterize and delineate impacts to the soil and groundwater in the areas of concern within the Subject Property.

2.0 SCOPE OF WORK

The investigation procedures will follow BCA's approved City of Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOPs) and those recommended by the IDEM 2022 Risk-Based Closure Guide (R2), regulations and industry-accepted practices. Investigation results will be compared to R2 Soil Direct Contact Published Levels (PLs) and Groundwater PLs from the R2 Table 1: 2024 IDEM OLQ Published Levels.

2.1 Supplemental Phase II Environmental Site Assessment

The potential environmental concerns identified in the Phase I ESAs are discussed above, as are the results of the previous 2019 Phase II ESA. Based on the results of the Phase II ESA, soil will be analyzed for VOCs and PAHs, and groundwater will be analyzed for VOCs, PAHs, arsenic, and lead.

2.1.1 Geophysical Survey

A limited geophysical survey will be conducted at the site in an attempt to identify the UST pits, product pipe runs, and any unknown and buried utilities. The survey will consist of ground penetrating radar (GPR) scans of the area around the proposed borings to identify any potential buried utility or other sub-surface anomaly. A utility tracer may be deployed to identify, locate, and mark product/vent/conduit lines. Any linear anomalies will be marked and mapped as possible utility locations.

2.1.2 Soil/Groundwater Boring Investigation

Soil borings and sample logs from the 2019 Phase II ESA indicate that groundwater has been encountered at depths ranging from 7 to 10 feet below ground surface (bgs). However, bedrock has been encountered at depths ranging from 8 to 19 feet bgs at the Subject Property.

A total of seven (7) soil and groundwater probes will be advanced at the Subject Property to further delineate soil and groundwater impacts.

The probes will be placed on the site approximately as indicated on the attached site map (**Figure 2**), with adjustments based on site conditions, utility locations, results of the GPR survey, and observations made by BCA personnel upon arrival at the site. The seven (7) soil and groundwater probes will be driven five (5) feet past first groundwater, 25 feet bgs, or refusal, whichever is shallower.

2.2 Field Methods

The approved Field Standard Operating Procedures for the project will be used for all tasks. The placement of probes will be determined by the geophysical survey or as

indicated in the attached site map (**Figure 2**).

The probes will be advanced by means of direct push probing. Probes will be cored continuously by utilizing four (4) or five (5)-foot long macro-core rods equipped with an acetate inner liner. Soil cores will be screened in the field with a PID equipped with a 10.6 eV lamp and logged in accordance with the Unified Soil Classification System (USCS). Field evidence of contamination (PID, olfactory or visible staining) will be noted. Soil samples will be selected for laboratory analysis based on the field screening results, position in the soil column, or other evidence of contamination. Soil samples for VOC analysis will be collected using EPA Method 5035A with Terra Core® samplers and 40 mL VOA bottles with distilled water and methanol preservative and will be frozen within 48 hours of collection. Soil samples will be collected from throughout the soil column and will be held for follow-up PAH and metal analysis pending initial results.

Locally, the groundwater flow is likely to the south or southeast toward Clear Creek. It is anticipated that the top of the groundwater surface will be encountered approximately 7 to 10 ft. bgs. If groundwater is not initially apparent, the probe will be allowed to sit overnight and will be rechecked to determine if groundwater has accumulated. Groundwater samples will be collected by use of temporary 1" PVC sampling points with five (5) feet of screen. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (updated May 11, 2021) to the extent possible. Field parameters (Turbidity (optional), Temperature, Conductivity, Dissolved Oxygen, pH, and Oxidation Reduction Potential) will be monitored in each temporary sampling point during purging until parameters have stabilized. Micro-Purge sampling will be conducted with a non-contact stainless steel submersible bladder pump. If groundwater monitoring parameters do not stabilize, a sample will be collected regardless, and a note will be recorded in the field book. Filtered samples will be collected by passing the groundwater through an in-line 10-micron (um) cartridge filter.

If undissolved (free) petroleum product is encountered or suspected at any location, a dedicated disposable bailer will be utilized to collect groundwater samples in lieu of low-flow sampling.

All probe locations will be located by means of a survey grade (1-foot accuracy) GPS device.

Soil cuttings and purge water from groundwater sampling will be drummed and held on-site. Following laboratory testing, the drum(s) will be transported for disposal, if appropriate. Cost projections are based on disposal of two (2) 55-gallon drums.

2.3 Laboratory Methods

An analysis summary is provided in Table 1. The analytes and methods utilized for this project include:

VOCs = volatile organic compounds. Analysis by EPA Method 5035A/8260 (soil), EPA Method 5030B/8260 (groundwater).
PAHs = polynuclear aromatic hydrocarbons. Analysis by EPA Method 8270SIM.
2 Metals = arsenic and lead. Analysis by EPA Method 6010.

2.4 Quality Control

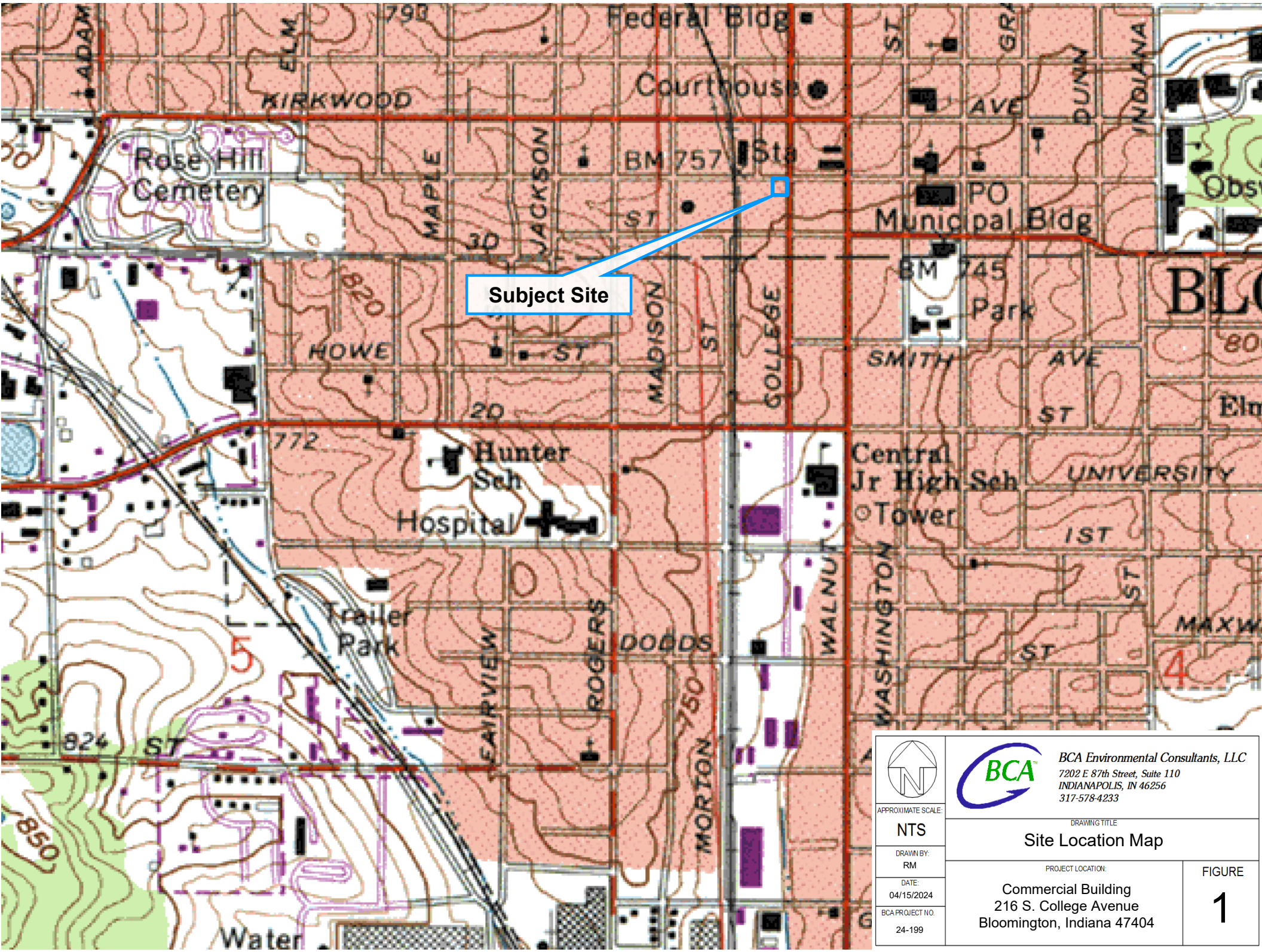
Quality control samples are collected and analyzed to assess the quality of the data resulting from the field sampling program. Quality control samples and laboratory reports will meet the requirements of the IDEM guidance. Equipment blanks will be collected for this project if groundwater samples are collected with non-disposable equipment and will include one (1) for each day of groundwater sampling. Two (2) trip blanks (one (1) for soil and one (1) for water) will be submitted for the project (VOCs only). Field duplicate samples of each matrix are collected at the rate of one (1) per 20 investigative samples for each analytical method. Matrix spikes and matrix spike duplicates (MS/MSD) are collected at a rate of one (1) per 20 investigative samples per sample matrix for each analytical method. The laboratory will include a DQO Level III report package for soil and groundwater samples.

2.5 Decontamination

Sampling equipment utilized at the site will be decontaminated using a non-phosphate detergent wash and distilled or deionized water rinse prior to and following the collection of each sample to reduce the potential for cross contamination. All other procedures used to decontaminate equipment will be documented. Wherever practical, disposable sampling equipment will be used to eliminate the need for decontamination.

2.6 Report

Observations and data generated by the field investigation will be summarized in a report for submittal to the Client. The report will contain a detailed explanation and documentation of sample locations and collection procedures. The analytical data will be summarized, and conclusions discussed to the extent possible. The need for additional investigation or remediation of the Subject Property will also be discussed, if appropriate.



APPROXIMATE SCALE: NTS	BCA Environmental Consultants, LLC 7202 E 87th Street, Suite 110 INDIANAPOLIS, IN 46256 317-578-4233
DRAWN BY: RM	DRAWING TITLE: Site Location Map
DATE: 04/15/2024	PROJECT LOCATION: Commercial Building 216 S. College Avenue Bloomington, Indiana 47404
BCA PROJECT NO. 24-199	FIGURE 1

314 W. 4th
308 W. 4th
Grass
Grass
B-Line Trail
217 W. Kirkwood
210 W 4th
120 S. College
122 S. College
122 S. Walnut
Parking Lot
122 S. Walnut
W. 4th Street
W. 4th Street
S. College Avenue
Walkway - Bridge
W. 4th Street
Grass
Parking Lot
B-Line Trail
Parking Lot
SP-1
Oil-Water Separator
Subject Property
216 S. College
SP-7
SP-6
Former Fuel Stations
SP-5
Possible UST Pits
SP-11
SP-4
SP-8
SP-9
SP-10
Parking Lot
201 S. College
109 W. 4th
205 S. Madison
Parking Lot
Former MGP Site
Former Coal Piles
Property Boundary
209 S. College
Parking Garage
SP-3R
SP-3
211 S. College
Parking Lot
SP-2
Parking Lot
222 S. Walnut
W. 3rd Street
W. 3rd Street
S. College Avenue
0
25
50
100
Grass
Parking Lot
B-Line Trail
302 S. College

Legend

- SP-6 Proposed Soil & Groundwater Sample Location
- SP-1 Historic Sample Location (BCA Phase II, 2019)
- Property Boundary
- Trees/Shrubs

BCA
BCA Environmental Consultants, LLC
7202 E. 87th Street, Suite 110
Indianapolis, IN 46256
317-578-4233

DATE: 04/25/2024
SCALE: 1" = 50'

DRAWING TITLE
Site Map
Proposed Sample Locations

PROJECT LOCATION:
216 S. College Avenue
Bloomington, Indiana

DRAWN BY: JT / RM
BCA PROJECT NO. 24-199

FIGURE 2

TABLE 1
ANALYSIS SUMMARY -
Supp. Phase II ESA
216 S. College Ave.
Bloomington, IN 47404

Sampling Type	No. of Samples	MS/MSD	Equip. Blank	Trip Blank	Duplicate	Total Samples	Analysis	Containers	Preservatives	Holding Times
Soil	**9**	**1**	0	**1**	**1**	**12**	**VOCs 8260**	3 pretared 40 ml glass vials w/ approx 5 gms soil in each from terre core sampler. 4th for moisture.	MeOH in 1. DI in 2 - freeze in 48 hrs	14 Days
	13	**1**	0	0	**1**	**15**	**PAHs 8270**	4-ounce Glass Jars	Cool to 6°C	14 Days to extract
Groundwater	**6**	**1**	**1**	**1**	**1**	**10**	**VOCs 8260**	3 - 40 ml Vials	HCl, Ice	14 Days
	6	**1**	**1**	0	**1**	**9**	**PAHs - 8270/SIM**	1 - 100 ml Amber Glass Jar	Ice	7 Days to extract
	7	**1**	**1**	0	**1**	**10**	**2 Metals Unfiltered**	1 - 250 ml Plastic	HNO3, Ice	180, Hg 28 days
	7	0	0	0	0	**7**	**2 Metals Filtered**	1 - 250 ml Plastic	HNO3, Ice	180, Hg 28 days

Supplemental Phase II - 216 S. College Ave. Bloomington, IN 47404 - #24-199

Groundwater:	Probe					Soils:		Default
Sample #	Depth	VOCs	PAHs	Unfiltered 2 Metals As & Pb	Filtered 2 Metals As & Pb	VOCs	PAHs	Sample Depth
SP- 3R	25			1	1			
SP- 6	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
SP- 7	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
SP- 8	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
SP- 9	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
SP- 10	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
SP- 11	25	1	1	1	1	1	1	0-2', 2-4', 4-6', Smear
Additional based on field screening						3		
Deeper soil								
Follow-up based on Analytical results							7	
Total Samples		6	6	7	7	9	13	
QA/QC		4	3	3	0	3	2	
Total lab		10	9	10	7	12	15	

QA/QC = Field Duplicate, MS/MSD, Equipment Blank, Trip Blank* (VOCs)
*1 Trip Blank per sample shipping container

SITE HEALTH AND SAFETY PLAN

Commercial Building, 216 S. College St., Bloomington, Indiana 47404

1.0 GENERAL PROJECT INFORMATION

Prime Contractor:	**BCA Environmental Consultants, LLC**
Client:	**City of Bloomington**
Subject Property Name:	**Commercial Building**
Site Address:	**216 S. College, Bloomington, IN**
Principal: **Project Manager:**	**John Kilmer** **Jacob Teuschler**
Date of Plan:	**April 15, 2024**

SITE DESCRIPTION

Type of Facility (describe):	**Commercial Building**
Active or Closed/Abandoned:	**Active**
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	**3 parcels, 1.7 acres, w/ one (1) building, paved lot, overhead utilities**
List any site access restrictions:	**None**
Surrounding neighborhood description:	**Commercial / Municipal**

SITE ACTIVITIES - The site activities covered by this HASP include those checked in the box below:

Site Activity	Soil Borings	Monitoring Well Installation	Soil / Purge Water Disposal	Soil and Groundwater Sampling	Soil Gas Sampling
Assessment					
Investigation	X		X	X	
Remediation					

EMERGENCY PHONE NUMBERS

POSITION	NAME	CONTACT
Safety Officer	**Rod Manny**	**© (765) 413-4750**
Field Technician	**Lillian Routt**	**© (567) 825-8967**
Industrial Services	**To be determined**	**To be determined**
Subcontractors: List all names of subcontractors to be used for site activities	**To be determined**	**To be determined**
Hospital Name	**Monroe Hospital**	
Hospital Address	**4011 S. Monroe Medical Park Blvd**	
Hospital Phone Number	**(812) 825-0823**	
Directions to nearest Hospital	**See attached map**	
Fire and Emergency	**Call 911**	
EPA Hotline:	**1-800- 621-3191**	

2.0 INTRODUCTION/SCOPE OF WORK

This plan provides health and safety guidelines for site investigation and remediation activities conducted by BCA Environmental Consultants, LLC (BCA) to protect on-site personnel, visitors and the public from physical harm and exposure to hazardous materials and/or wastes. The procedures and guidelines contained herein are based on the best available information at the time of the plan's preparation. Specific requirements may be revised if new information is received, or site conditions change. It is the responsibility of the field personnel to evaluate the site work conditions and if in doubt about safety or an operation, request assistance from the Site Safety Officer (SSO). Compliance with this plan is mandatory for all on-site BCA personnel and subcontractors.

Operations at the site may require additional tasks not identified in the preparation of this health and safety plan (HASP). Before performing any task not covered in this HASP a revision must be prepared and approved by the SSO.

2.1 Scope of Work

Scope of work for the investigation at the site includes:

- Soil and groundwater sampling

3.0 PERSONNEL CONTACT INFORMATION AND PHONE NUMBERS

The BCA SSO will have the authority to alter work practices, stop work, and/or allocate resources to mitigate unsafe work practices. All personnel have the authority to stop any work practice that may endanger site personnel or the general public. Restarting work will be done in consultation with the SSO. The following personnel and subcontractor resources will be used on this site:

POSITION	NAME	CONTACT
Safety Officer	**Rod Manny**	**© (765) 413-4750**
Field Manager	**Rod Manny**	**© (765) 413-4750**
Excavation Services	**NA**	**NA**
Industrial Services	**NA**	**NA**
Subcontractors: List all names of subcontractors to be used for site activities	**To be determined**	**To be determined**

TABLE OF AUTHORITY

Principal Manager
John Kilmer
Responsibilities
Accident Reporting
Restart Work Following Work Stoppage
OSHA and USEPA Point of Contact

Project Safety Manager
Jacob Teuschler
Responsibilities
Project Safety Coordinator
Site Safety Audits

Site Safety Officer
Rod Manny, LPG
Responsibilities
Air Monitoring/PPE Upgrade Determination
Incident Investigation Documentation
"Tailgate" HASP Meetings
Decision to Involve Police, Fire and Ambulance
Enforcing PPE Use, Observing Compliance with HASP Provisions

BCA Field Personnel
Rod Manny
Lillian Routt
Responsibilities
Assure Compliance with HASP
Observe/Report Unanticipated Conditions
Stop Work/Report to Supervisors if Unanticipated Conditions Exist

Subcontractor Supervisors
TBD
Responsibilities
Assure Personnel Compliance with HASP
Observe/Report Unanticipated Conditions

Subcontractor Personnel
TBD
Responsibilities
Assure Personnel Compliance with HASP
Observe/Report Unanticipated Conditions
Stop Work/Report to Supervisors if Unanticipated Conditions Exist

4.0 EMERGENCY INFORMATION/RESPONSE

The purpose of this section is to provide the on-site user with contact and location information to be used in case of an emergency response situation. In case of an emergency on-site, **CALL 911** first and **NOTIFY** the site operator (if available). Then contact the BCA project manager and Site Safety Officer for this site.

EMERGENCY PHONE NUMBERS

Hospital Name	**Monroe Hospital**
Hospital Address	**4011 S. Monroe Medical Park Blvd**
Hospital Phone Number	**(812) 825-0823**
Directions to nearest Hospital	See attached map
Fire and Emergency	Call 911
EPA Hotline:	1-800- 621-3191
National Response Center	1-800-424-8802
TSCA HOTLINE	1-800-424-9065
Poison Control Center	1-800-382-9097
CHEMTREC	1-800-424-9300
National Pesticide Center	1-800-858-7378

5.0 STANDARD EMERGENCY PROCEDURES

5.1 Hazard Communication

Any organization wishing to bring any hazardous material onto any BCA-controlled work site must first provide a copy of the item's Safety Data Sheet (SDS) to the Site Safety Officer for approval and filing (the Site Safety Officer will maintain copies of all SDSs on site). SDSs may not be available for locally obtained products, in which case some alternate form of product hazard documentation will be acceptable. All personnel shall be briefed on the hazards of any chemical product they use and shall be aware of and have access to all SDSs. All containers on site shall be properly labeled to indicate their contents. Labeling on any containers not intended for single-day, individual use shall contain additional information indicating potential health and safety hazards (flammability, reactivity, etc.).

The Hazard Communication standard (29 CFR 1910.1200) has been provided to employees, and a written copy is on file at BCA's office.

5.2 Confined Space Entry

There is no expectation that a confined space will be entered during this project.

6.0. PERSONNEL TRAINING RECORDS

All personnel working within the exclusion zone are required to have 40 hour HAZWOPPER training and be current with refresher training in accordance with 29 CFR 1910.120.

7.0 KNOWN OR ANTICIPATED HAZARDS

7.1 General Safety Rules

Housekeeping

During site activities, work areas will be continuously policed for identification of excess trash and unnecessary debris. Excess debris and trash will be collected and stored in an appropriate container (e.g., plastic trash bags, garbage can, roll-off bin) prior to disposal. At no time will debris or trash be intermingled with waste PPE or contaminated materials.

Smoking, Eating, or Drinking

Smoking, eating and drinking will not be permitted inside any controlled work area at any time. Field workers will first wash hands and face immediately after leaving controlled work areas (and always prior to eating or drinking). Consumption of alcoholic beverages is prohibited at any BCA-controlled site.

Personal Hygiene

The following personal hygiene requirements will be observed:

Water Supply: A water supply adhering to the following requirements will be utilized:

- An adequate supply of potable water will be available for field personnel consumption.
- Potable water can be provided in the form of water bottles, canteens, water coolers, or drinking fountains. Where drinking fountains are not available, individual-use cups will be provided as well as adequate disposal containers. Potable water containers will be properly identified in order to distinguish them from non-potable water sources.
- Non-potable water may be used for hand washing and cleaning activities. Non-potable water will not be used for drinking purposes. All containers of non-potable water will be marked with a label stating:

Non-Potable Water
Not Intended for Drinking Water Consumption

Toilet Facilities:

- A minimum of one toilet will be provided for every 20 personnel on site, with separate toilets maintained for each sex except where there are less than five (5) total personnel on site. For mobile crews where work activities and locations permit transportation to nearby toilet facilities on-site facilities are not required.

Washing Facilities:

- Employees will be provided washing facilities (e.g., buckets with water and Alconox) at each work location. The use of water and hand soap (or similar substance) will be required by all employees following exit from the Exclusion Zone, prior to breaks, and at the end of daily work activities.

Buddy System

All field personnel will use the buddy system when working within any controlled work area. Personnel belonging to another organization on site can serve as "buddies" for BCA personnel. Under no circumstances will any employee be present alone in a controlled work area.

7.2 Heat and Cold Stress

Heat and cold stress may vary based upon work activities, PPE/clothing selection, geographical locations, and weather conditions. To reduce the potential of developing heat/cold stress, be aware of the signs and symptoms of heat/cold stress and watch fellow employees for signs of heat/cold stress.

Heat stress can be a significant field site hazard, particularly for non-acclimated personnel operating in a hot, humid environment. Site personnel will be instructed in the identification of a heat stress victim, the first-aid treatment procedures for the victim and the prevention of heat stress casualties. Work-rest cycles will be determined, and the appropriate measures taken to prevent heat stress.

7.3 Responding to Heat-Related Illness

The guidance below will be used in identifying and treating heat-related illness.

Type of Heat-Related Illness	Description	First Aid
Mild Heat Strain	The mildest form of heat-related illness. Victims exhibit irritability, lethargy, and significant sweating. The victim may complain of headache or nausea. This is the initial stage of overheating, and prompt action at this point may prevent more severe heat-related illness from occurring.	• Provide the victim with a work break during which he/she may relax, remove any excess protective clothing, and drink cool fluids. • If an air-conditioned spot is available, this is an ideal break location. • Once the victim shows improvement, he/she may resume working; however, the work pace should be moderated to prevent recurrence of the symptoms.
Heat Exhaustion	Usually begins with muscular weakness and cramping, dizziness, staggering gait, and nausea. The victim will have pale, clammy moist skin and may perspire profusely. The pulse is weak and fast, and the victim may faint unless they lie down. The bowels may move Involuntarily.	• Immediately remove the victim from the work area to a shady or cool area with good air circulation (avoid drafts or sudden chilling). • Remove all protective outerwear. • Call a physician. • Treat the victim for shock. (Make the victim lie down, raise his or her feet 6–12 inches, and keep him or her cool by loosening all clothing).
Heat Stroke	The most serious of heat illness, heat stroke represents the collapse of the body's cooling mechanisms. As a result, body temperature may rise to 104 degrees Fahrenheit or higher. As the victim progresses toward heat stroke, symptoms such as headache, dizziness, nausea can be noted, and the skin is observed to be dry, red, and hot. Sudden collapse and loss of consciousness follows quickly, and death is imminent if exposure continues. Heat stroke can occur suddenly	• Immediately evacuate the victim to a cool and shady area. • Remove all protective outerwear and as much personal clothing as decency permits. • Lay the victim on his or her back with the feet slightly elevated. • Apply cold wet towels or ice bags to the head, armpits, and thighs. • Sponge off the bare skin with cool water or rubbing alcohol, if available. • The main objective is to cool without chilling the victim. • Give no stimulants or hot drinks. • Since heat stroke is a severe medical condition requiring professional medical attention, emergency medical help should be summoned immediately to provide onsite treatment of the victim and proper transport to a medical facility.

8.0 PHYSICAL HAZARDS AND MITIGATION PROCEDURES

Safe work practices in compliance with OSHA standards and this document will be used at all times. The first aid kit and fire extinguisher are to be on site at all times. The following table lists the anticipated hazards and the associated safety rules for proper control.

Hazard Description	Potential Result	Control Measure
Tool Handling	Cuts, contusions, bruises	Wear gloves, steel-toed boots, and safety glasses
Vehicle Traffic	Impact, getting struck by vehicle	Set up safety cones around work area. Communicate activities with any onsite personnel. Wear reflective vest. Use truck or van as a shield if possible. Set up snow fence for each location where pedestrian walkways are affected and cover all openings or secure with snow fence during all breaks or overnight.
Heat/Cold	Heat stress/frostbite	Heat: Take frequent breaks and drink plenty of fluids. Watch for signs/symptoms of heat stress (fainting, dizziness, excessive sweating) Cold: Wear several layers of clothing, do not work in excessive cold, and take frequent breaks.
Slip, trip and fall	Bruising, sprained ankle/foot/knee	Be aware of surroundings and practice good housekeeping measures around the site area to minimize items that pose a trip hazard.
Splash	Exposure to contaminants in the groundwater – dermal and/or eye	Wear gloves and safety glasses during purging of well and sample collection.
Hazardous Energy Control	Personal injury, electrocution	Use lockout/tagout controls to ensure that hazardous energy sources (electrical) are controlled prior to valve removal activities, including electrical and water pressure. All underground utilities should be marked prior to intrusive activities. A site walk-through should identify all overhead power lines.
Heavy Equipment	Struck by	Keep aware of the location of heavy equipment at all times. If overhead activities are taking place (drilling, digging) hard hats will be used.
Fire and Explosion	Flammable vapors from petroleum may ignite	Monitor for the presence of flammable vapors with an explosimeter. Fire extinguishers should be available. Evacuate the area immediately, call 911 and evaluate the situation.
Noise/Hearing Protection	Active drilling and other processes may exceed noise exposure standard of 85 decibels	Wear appropriate hearing protection.
Biological Hazards	Poisonous vegetation and/or stinging/biting insects or animals	Keep aware of surroundings and if bite or sting takes place seek first aid and/or medical attention

9.0. CHEMICAL HAZARDS POTENTIALLY ON SITE

9.1 Waste Characterization

Potential hazards for each of the tasks presented below are assessed. As work items are being performed, continued monitoring and observation will be used to determine if conditions change. Site Safety Officer will be responsible for continued assessment, and work practice modification in the event that unsafe work practices are observed. The following site activities are anticipated:

- Soil and groundwater sampling; waste disposal

9.2 Hazard Evaluation

Chemicals of Concern: Identify all chemicals that are present or suspected to be present on site and the maximum concentrations detected in soil or water.

Chemical Name	TLV/PEL (8 hour TWA exposure limit for inhalation exposure in breathing zone)	Maximum Concentration in Soil (mg/kg or ppm)	Maximum Concentration in Water (mg/l or ppm)	Health Hazard/Comments
VOCs	Varies	TBD	TBD	Varies
SVOCs	Varies	TBD	TBD	Varies
PAHs	Varies	TBD	TBD	Varies
PCBs	Varies	TBD	TBD	Varies
Metals	Varies	TBD	TBD	Varies
Asbestos	0.1 fiber per cc of air as 8-hour TWA; excursion limit of 1.0 fiber per cc over 30-minute period.	N/A	N/A	Inhalation hazard

Is free product onsite?
___ Yes ____ No _X__ Unsure

Will work tasks be performed inside buildings/enclosures?
___ Yes _X__ No ___ Unsure

Is there evidence that contaminants present could cause vapor problems in structures?
___ Yes __X__ No ___ Unsure ____ Not Applicable

If Yes, is building mechanically ventilated?
____ Yes ____ No __X__ Not Applicable

10.0 BIOLOGICAL HAZARDS AND MITIGATION PROCEDURES

Contact with animals, insects, and plants can cause injury and illness to personnel. Care must be taken to ensure that these types of injuries are avoided. Some examples of biological hazards include:

- Wild animals, such as snakes, raccoons, squirrels, and rats. These animals not only can bite and scratch, but can carry transmittable diseases (e.g., rabies). Avoid the animals whenever possible. If bitten, go to the nearest medical facility.

- Insects such as mosquitoes, ticks, bees, and wasps. Mosquitoes can potentially carry and transmit the West Nile Virus or Eastern Equine Encephalitis (EEE). Ticks can transmit Lyme disease or Rocky Mountain Spotted Fever. Bees and wasps can sting by injecting venom, which causes some individuals to experience anaphylactic shock (an extreme allergic reaction). Whenever you will enter areas that provide a habitat for insects (e.g., grass areas, woods), wear light-colored clothing, long pants and shirt, and spray exposed skin areas with a DEET-containing repellent. Keep away from high grass wherever possible. Keep your eyes and ears open for bee and wasp nests. If bitten by insects, see a doctor if there is any question of an allergic reaction.

- Plants such as poison ivy and poison oak can cause severe rashes on exposed skin. Be careful where you walk, wear long pants, and minimize touching exposed skin with your hands after walking through thickly vegetated areas until after you have thoroughly washed your hands with soap and water.

11.0 ADDITIONAL HAZARDS

The following daily log should be filled out whenever an unexpected hazard is encountered. Include injuries, PPE used, or work stoppages caused by unsafe conditions.

Hazard Observed	Date	Observed by (Print Name)	Mitigation Taken/PPE Used

12.0 LIST OF FIELD ACTIVITIES

The following is a list of field activities anticipated for this project:

- The first field activity in this investigation will be utility location. Because this is not an invasive activity, this Site Health and Safety Plan will not be applied to the utility locating contractor.

- Pre-marking boring locations will be performed by BCA. This is also not an invasive activity and no hazards are anticipated.

- Drilling soil borings. This activity will be performed by a subcontractor who will drill soil borings for sampling the soil and groundwater. These personnel will be subject to the provisions of this Health and Safety Plan.

13.0 SITE DESCRIPTION

Type of Facility (describe):	Commercial
Active or Closed/Abandoned:	**Active**
Describe Surface Features (buildings, paved or unpaved, overhead/underground utilities):	**3 parcels, 1.7 acres, w/ one (1) building, paved lot, overhead utilities**
List Any Site Access Restrictions:	**None**
Surrounding Neighborhood Description:	**Commercial / Municipal**

14.0 PERSONNEL PROTECTIVE GEAR/ENGINEERING CONTROLS

14.1 Personnel Protective Gear

Level D:
Sampling can be performed using modified Level D protection. The following items are needed for modified Level D.

- Hard hat (for overhead hazard activities)
- Steel-toe work boots
- Coveralls and/or long pants with short sleeved shirts (at a minimum)
- Eye protection when a splash hazard exists
- Hearing protection during active drilling or other loud operations
- Nitrile gloves for sampling and/or contact with soil and groundwater.

Modifications:
Modifications to this level of protection will be made if site conditions and/or contamination levels warrant an upgrade in protection level.

Level C:
If site conditions warrant, an upgrade to Level C will be made if air monitoring equipment indicates respiratory protection is required. Air-purifying respirators with organic vapor cartridges will be used in this situation. The SDS for that substance shall be consulted to determine the appropriate personal protective equipment (i.e. chemical resistant coveralls/gloves, chemical goggles, respiratory protection).

Surveillance Equipment and Materials:
Photoionization Detector

Work Limitations (Time of Day, etc.):
All sampling operations will be conducted during daylight hours. No smoking or eating during soil handling procedures.

14.1.1 PPE Donning and Doffing Information

The following information is to provide field personnel with helpful hints that, when applied, make donning and doffing of PPE a safer and more manageable task:

- Never cut disposable booties from your feet with basic utility knives. This has resulted in workers cutting through the booty and the underlying sturdy leather work boot, resulting in significant cuts to the legs/ankles. Recommend using a pair of scissors or a package/letter opener (cut above and parallel with the work boot) to start a cut in the edge of the booty, then proceed by manually tearing the material down to the sole of the booty for easy removal.

- When applying duct tape to PPE interfaces (wrist, lower leg, around respirator, etc.) and zippers, leave approximately one inch at the end of the tape to fold over onto itself. This will make it much easier to remove the tape by providing a small handle to grab while still wearing gloves. Without this fold, trying to pull up the tape end with multiple gloves on may be difficult and result in premature tearing of the PPE.

- Have a “buddy” check your ensemble to ensure proper donning before entering controlled work areas. Without mirrors, the most obvious discrepancies can go unnoticed and may result in a potential exposure situation.

- Never perform personal decontamination with a pressure washer.

14.2 Medical Surveillance Requirements

All personnel must have completed the appropriate medical monitoring requirements as specified in 29 CFR 1910.120. Documentation of medical monitoring is the responsibility of each employer.

14.3 Engineering Control

The engineering control to prevent pedestrian/general population from exposure to hazards at the work site is Site Control.

14.3.1 Site Control Measures

Site controls establish the hazardous area perimeter and prevent access or exposure by unauthorized personnel or the public. The site map is attached to the Field Instructions and is incorporated as part of the HASP. The “buddy system” is to be used throughout those site operations that require it.

Site Entry Procedures: Notify property owner before mobilizing to the site.

An exclusion zone, contamination reduction zone and support zone will be identified for each site activity.

14.3.2 Emergency First Aid Procedures

If eye irritation, nausea, vomiting, dizziness, unusual odors or any other unusual mental or physical sensations are noticed, seek medical assistance.

Inhalation: Move person to fresh air, seek medical assistance.
Ingestion: Do not induce vomiting, seek medical attention.
Eyes: Flush with copious amounts of water.
Skin: Wash with soap and water.

15.0 AIR MONITORING REQUIREMENTS

Where VOC's are present, all soil samples will be field screened for volatile organics using a photo-ionization detector (PID). During soil sample collection, it is expected that headspace gasses will be below the action level. However, during the course of soil sampling, if headspace gasses exceed 100 ppm, breathing zone monitoring will be conducted. If volatile gasses are detected in the breathing zone, the work activities work will stop and breathing zone gasses will be monitored using the PID or one of the other detectors outlined below. Further work may be conducted after elimination of all ignition sources, increasing the monitoring frequency, or elevate the level of PPE.

Instrumentation Available for Higher Level Air Monitoring:

INSTRUMENT	MANUFACTURER/MODEL*	SUBSTANCES DETECTED
Photo Ionization Detector (PID)	**RAE Systems mini-RAE (10.6 eV Lamp)**	**Petroleum Hydrocarbons Organic Solvents**
Flame Ionization Detector (FID)	**NA**	**Petroleum Hydrocarbons Organic Solvents**
Combustible Gas Indicator (CGI) May Be Combined with Individual or Multi-gas Detectors.	**NA**	**Explosivity**
Individual Gas Detectors	**NA**	**Oxygen (O_2) Carbon Monoxide (CO) Hydrogen Sulfide (H_2S) Cyanide Gases (CN^-)**
Particulate Monitor	**NA**	**Aerosols, mist, dust, and fumes**
Colorimetric Detector Tubes	**Sensidyne, Draeger**	**Benzene 0.5–10 ppm**

16.0 DECONTAMINATION PROCEDURES

Decontamination Procedures:

Contamination may result from walking through contaminated soils or liquids, splashing liquids during sampling, or use of or contact with contaminated equipment.

Decontamination procedures for the following tasks will be observed onsite:

- **Sampling**: The submersible bladder pump is to be scrubbed with an Alconox wash and rinsed with water prior to sampling, and between each well.

- **PPE**: All contaminated, disposable clothing will be properly bagged for disposal and left onsite for proper disposal. The PPE may be added to the soil drums for disposal.

17.0 WASTE STORAGE/DISPOSAL

Investigation-derived Material Disposal:
The purge and decontamination water, and disposable protective gear are to be placed in 55 - gallon drums, labeled and stored on site pending the receipt of the laboratory analysis. Free product and contaminated water must remain on-site until the proper disposal method is determined.

The drums of investigative waste will be hauled by a contractor who will be subject to the provisions of this site health and safety plan. Waste disposal will be performed in a manor appropriate to the waste characteristic identified by waste profiling.

17.1 Spill Containment Program

No anticipated spills or releases of hazardous chemicals are associated with this project. Any spills will be contained and drummed for proper disposal.

18.0 DOCUMENTS EXPECTED TO BE COMPLETED

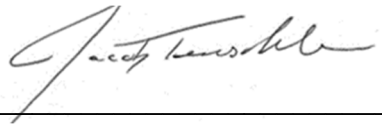
The Site Safety Officer will maintain a master Site Health and Safety Plan which will be updated with the Daily Log (Section 11.0) and daily sign in sheets. In the event that site conditions warrant updating this Site Health and Safety Plan, updated sections will be appended to this plan. The master Site Health and Safety Plan will be archived in the project file at the offices of BCA for ten years following the end of the project.

Other documents which will be maintained include field books, boring logs, groundwater sampling sheets, contractor provided SDSs, and correspondence.

19.0 APPROVALS

I, the undersigned, attest that I am familiar with the contents of this Health and Safety Plan and do agree to administrate the procedures described herein.

Plan Prepared by: Date: 04/15/2024

Plan Approved by:  Date: 04/15/2024

Health and Safety Officer: Date: 04/15/2024

20.0 EMPLOYEE ACKNOWLEDGMENT

The designated BCA employee shall be responsible for informing all individuals entering the exclusion zone of the contents of this plan, and ensuring each person signs the employee acknowledgment form. By signing this form, individuals are recognizing the hazards present on site and the policies and procedures required to minimize exposure or adverse effects of these hazards.

I have read the site health and safety plan and have been briefed and fully understand all of the following aspects of the project:

Hazards associated with the project:

1. Personal protective equipment
2. Emergency procedures/contacts
3. Project team-member responsibilities; and,
4. Work zones and decontamination procedures.

I have undergone medical monitoring and have been respirator fit-tested in the last year.

Form must be signed each day on site.

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

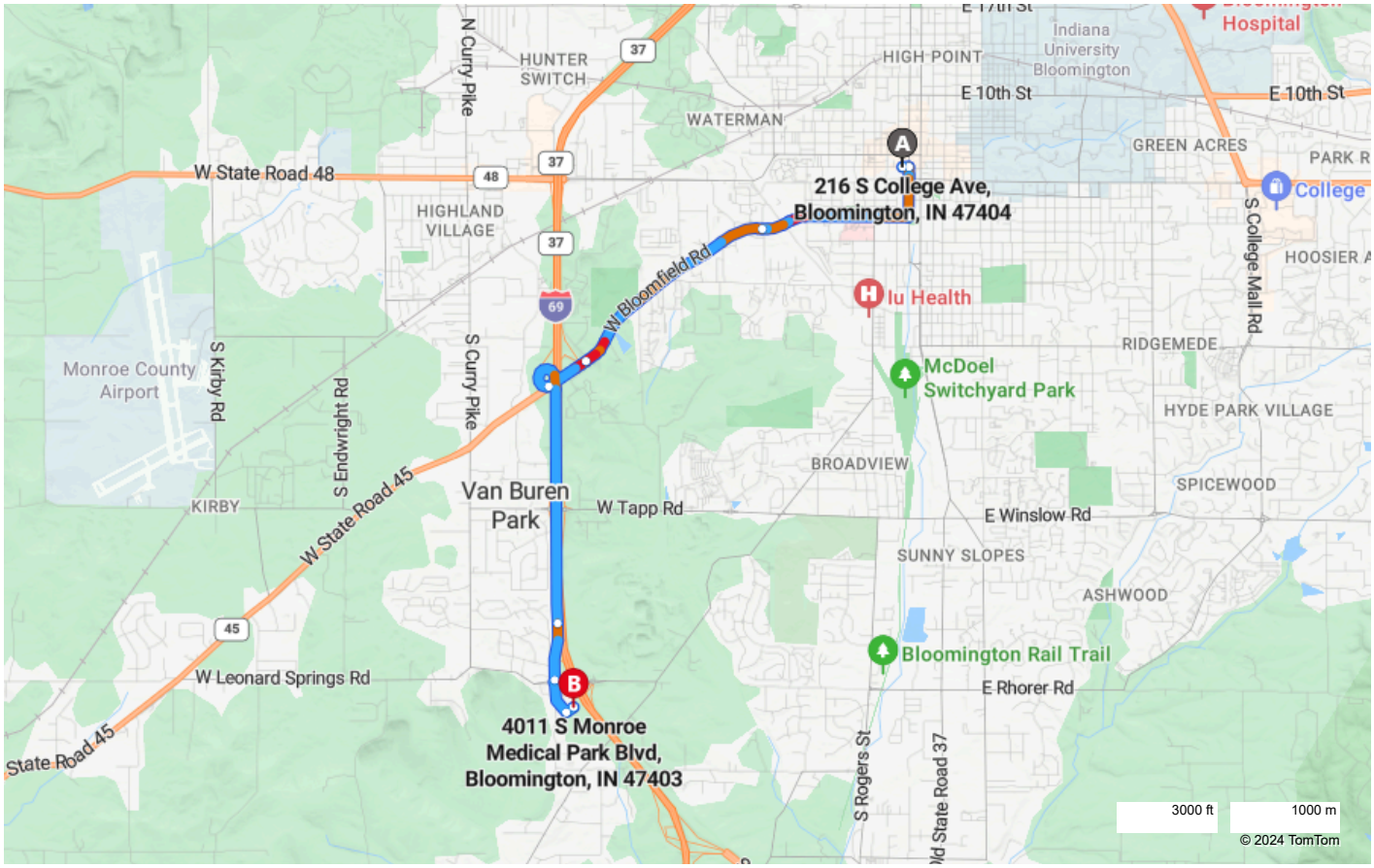
Signature:_____ Date:_____

Signature:_____ Date:_____

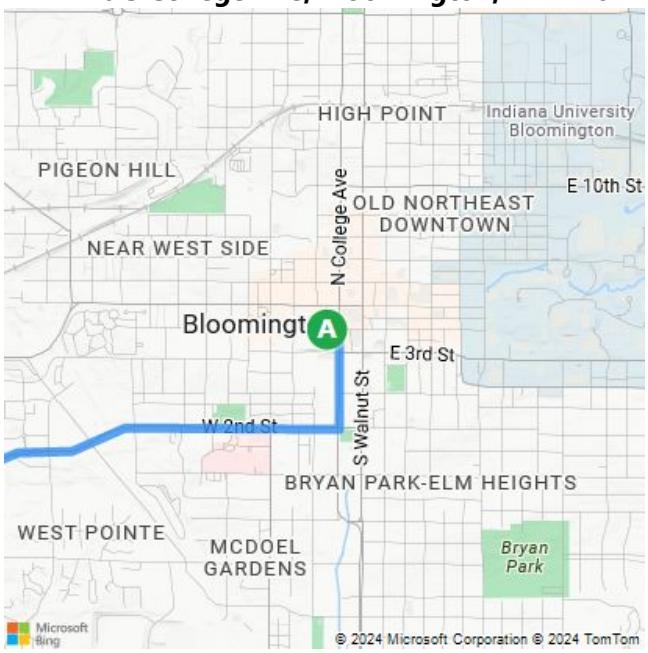
Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____



A 216 S College Ave, Bloomington, IN 47404



B 4011 S Monroe Medical Park Blvd, Bloomi...

These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2024 TomTom.

bing maps

A 216 S College Ave, Bloomington, IN 47404

B 4011 S Monroe Medical Park Blvd, Bloomington, IN 47403

12 min , 5.1 miles
Light traffic
Via W Bloomfield Rd, I-69 S

A 216 S College Ave, Bloomington, IN 47404

↑	1.	Head **east** on **W 4th St** toward S College Ave	203 ft
↱	2.	Turn **right** onto **S College Ave**	0.3 mi
↱	3.	Turn **right** onto **W 2nd St**	0.9 mi
↑	4.	Keep **straight** to get onto **W Bloomfield Rd**	1.3 mi
↑	5.	Continue on **W State Road 45**	0.3 mi
69	6.	Take the ramp on the **right** for **I-69 South / IN-37 South** and head toward **Evansville**	1.7 mi
↱	7.	At Exit **115**, head on the ramp **right** and follow signs for **Fullerton Pike**	0.3 mi
⟳	8.	At the roundabout, take the **2nd** exit for **S Monroe Medical Park Blvd**	0.2 mi
↰	9.	Turn **left**	272 ft
	10.	Arrive at destination The last intersection before your destination is S Monroe Medical Park Blvd	

B 4011 S Monroe Medical Park Blvd, Bloomington, IN 47403

Appendix B

Soil Boring Logs

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-3R
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	24199
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Seratech
Driller	Neal
Ground Elevation	
Total Drilled Depth	10.5'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	7/10/2024 — 7/10/2024
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	Not recorded
Logged By:	R. Hallstein
Checked by/Date	R. Manny / 08/30/2024

Location Description
Easting 540160.949 Northing 4335176.582

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt & Gravel (GW)			
		Brown clay, stiff (CL)	80%	0.0 0.0	
		No Recovery			
5		Brown clay, stiff (CL)	100%	0.0 0.0	
10		Tan sandy clay, wet (CL)	100%	0.0	VOC's Sampled @ 10-10.5'
		Refusal at 10.5'			
		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-6
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	24199
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Seratech
Driller	Neal
Ground Elevation	
Total Drilled Depth	11'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	7/10/2024 — 7/10/2024
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	Dry
Logged By:	R. Hallstein
Checked by/Date	R. Manny / 08/30/2024
Location Description	
Easting	540160.843
Northing	4335242.045

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt	60%	0.0	VOCs sampled @ 11'
		Brown sand, fine-med (SW), CAC, brick fill			
		Brown clay, stiff (CL)		1.8	
		Brown clayey sand w/ gravel (SC)			
		No Recovery			
5		Brown clayey sand w/ gravel (SC)	40%	0.0	
		Brown clay, stiff (CL)		0.0	
		No Recovery			
10		Brown clay (CL), black staining near bottom	100%	22.0 108.0 158.0	
		Refusal at 11'			
		Installed 1" pvc temporary well w/ 5' slotted screen. Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-7
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	24199
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Seratech
Driller	Neal
Ground Elevation	
Total Drilled Depth	18.5'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	7/10/2024 — 7/10/2024
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	9.18'
Logged By:	R. Hallstein
Checked by/Date	R. Manny / 08/30/2024
Location Description	
Easting	540145.78
Northing	4335232.602

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt	80%	0.0	VOC's + DUP Sampled @ 7' 4oz DUP @ 10-12'
		Gray sandy clay (CL)		0.0	
		Brown clay (CL)		0.0	
		No Recovery			
5		Brown clay, stiff (CL)	90%	120.0 386.0 Alarm	
		No Recovery		289.0 66.0	
10		Gray clay, soft (CL)	80%	0.0 0.0	
		Fine sand (SP) w/ gravel, wet		0.0	
		Brown clay, soft (CL)			
		No Recovery			
15		Brown clay (CL)	95%	0.0	
		Fine silty sand (SM) w/ gravel, wet		0.0	
		Refusal at 18.5			
20		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
25					

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-8
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	24199
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Seratech
Driller	Neal
Ground Elevation	
Total Drilled Depth	12.5'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	7/10/2024 — 7/10/2024
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	Not recorded
Logged By:	R. Hallstein
Checked by/Date	R. Manny / 08/30/2024
Location Description	Easting 540147.508 — Northing 4335213.827

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt		0.0	
		Gray clay, stiff, petro odor (CL)	85%	0.0 0.0 26.0	
		No Recovery			
5		Brown clay, stiff petro odor (CL)	99%	28.0 309.0 28.0 28.0 28.0 40.0 107.0	VOCs sampled @ 6'
10		Brown clay, stiff, at bottom tan sand, fine, wet (SP)	99%	24.0 10.0	VOCs sampled @ 12'
		Refusal at 12.5'			
15		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
20					
25					

BCA Environmental Consultants, LLC
7202 E 87th Street, Suite 110
Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-9
Sheet 1 of 1

Location	216 South College Ave. Bloomington, IN 47404
Project Name	216 S. College Ave.
Project Number	24199
Site Address	216 South College Ave. Bloomington, IN 47404
Drilling Company	Seratech
Driller	Neal
Ground Elevation	
Total Drilled Depth	13'
Drilling Equip	Geoprobe 6712DT
Drilling Method	Direct Push
Borehole Dia	2.5"
Date Drilling Started/Completed	7/10/2024 — 7/10/2024
Type of Sampling Device	5' Acetate Sleeve
Water Level (bgs)	11'
Logged By:	R. Hallstein
Checked by/Date	R. Manny / 08/30/2024

Location Description
Easting 540153.005 Northing 4335207.439

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt & gravel		0.0	
		Brown clay, med-stiff (CL)	80%	0.0	
				0.0	
		No Recovery			
5		Brown clay, stiff (CL) w/ gravel	100%	7.0	
				7.0	
				121.0	
				151.0	
10				170.0	VOCs sampled @ 10.5'
		Brown clay, stiff (CL)	100%	107.0	Jars collected
		Fine tan sand (SP), wet		60.0	
		Refusal at 13'			
		Installed 1" pvc temporary well w/ 5' slotted screen.			
		Collected GW sample.			
		Removed temporary casing and backfilled w/ bentonite.			
15					
20					
25					

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BORING LOG

Borehole ID: SP-10
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 24199	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Seratech	**Driller** Neal	**Ground Elevation**	**Total Drilled Depth** 18'
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 7/10/2024 — 7/10/2024
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** 7.24'	
		Logged By: R. Hallstein	**Checked by/Date** R. Manny / 08/30/2024

Location Description
Easting 540164.871 Northing 4335205.841

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt and gravel fill (GW)	90%	0.0	PAHs & Metals sampled @ 0-2'
		Brown sandy clay (CL)			
		Gray/green clay, stiff (CL)		0.0	
5		No Recovery			
		Brown clay (CL), w/ gray staining, petro odor at 6'	70%	1.2 40.0 500.0	PAHs & Metals sampled @ 5-7'
		No Recovery		22.0	
10		Brown clay, stiff (CL)	95%	900.0 226.0 50.0 20.0	VOCs sampled @ 11'
15		Brown clay, soft (CL), wet		<5.0	
		Brown sandy clay, soft (CL), wet	60%	<5.0	
		Weathered limestone		<5.0	Applied HCl, strong effervescence
20		**Refusal at 18'** Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
25					

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Indianapolis, IN 46256

BORING LOG

Borehole ID: SP-11
Sheet 1 of 1

Project Name 216 S. College Ave.	**Project Number** 24199	**Site Address** 216 South College Ave. Bloomington, IN 47404	**Location** 216 South College Ave. Bloomington, IN 47404
Drilling Company Seratech	**Driller** Neal	**Ground Elevation**	**Total Drilled Depth** 17.5'
Drilling Equip Geoprobe 6712DT	**Drilling Method** Direct Push	**Borehole Dia** 2.5"	**Date Drilling Started/Completed** 7/10/2024 — 7/10/2024
Type of Sampling Device 5' Acetate Sleeve		**Water Level (bgs)** 7.91'	
		Logged By: R. Hallstein	**Checked by/Date** R. Manny / 08/30/2024

Location Description
Easting 540164.562 Northing 4335221.45

Depth	Interval	Description	Sample Recovery	PID ppm	Remarks
0		Asphalt	60%	0.0	MS/MSD sampled @ 0-2'
		Brown sandy clay (CL) w/ gravel and brick		0.0	
		Brown clay, stiff (CL)			
		No Recovery			
5		Brown clay, stiff (CL)	90%	20.0	VOCs sampled @ 7' 4oz jars collected
				Alarm	
				50.0	
				10.0	
		No Recovery			
10		Brown clay, stiff (CL)	90%	120.0	
				0.0	
				0.0	
		No Recovery			
15		Brown clay, soft (CH)	95%	30.0	
		Refusal at 17.5			
		Installed 1" pvc temporary well w/ 5' slotted screen. Collected GW sample. Removed temporary casing and backfilled w/ bentonite.			
20					
25					

Appendix C

GPS Data

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

GPS Data Table

Site/Facility Name: **Commercial Building**
Site Location: **216 S College, Bloomington, IN 47401**
Site/Facility ID:
OLQ Program:
Purpose of Data Collection: Soil/Groundwater Sample Locations

Data Collector Name: Brianna Reid / Renee Hallstein
Data Processor Name: Renee Hallstein

Projection: UTM Zone 16N
Datum: WGS 84
Units: Meters
GPS Reciever Brand/Model: Geode GNS3S
Reciever Type: Survey Grade GPS

Point Type	Name	Depth Feet	Refusal (Bedrock)	Groundwater Obtained	Max PDOP	Correction Method	Instrument	Date & Time	Data File Name	Total Positions	Horiz Precision	Easting meters	Northing meters	HAE meters
Soil Probe	SP- 3R	10.5	N	Y	1	ThreeDimensional	Geode 351441	2024-07-10T20:16:27	216 S College	61	0.6	540160.949	4335176.582	228.012
Soil Probe	SP- 6	11	N	N	0.9	ThreeDimensional	Geode 351441	2024-07-10T20:12:47	216 S College	60	0.6	540160.843	4335242.045	228.99
Soil Probe	SP- 7	18.5	N	Y	0.9	ThreeDimensional	Geode 351442	2024-07-10T20:14:14	216 S College	58	0.5	540145.78	4335232.602	229.243
Soil Probe	SP- 8	12.5	N	Y	0.9	ThreeDimensional	Geode 351443	2024-07-10T20:19:24	216 S College	75	0.500	540147.508	4335213.827	228.989
Soil Probe	SP- 9	13	N	Y	0.9	ThreeDimensional	Geode 351444	2024-07-10T20:07:51	216 S College	71	0.5	540153.005	4335207.439	228.623
Soil Probe	SP- 10	18	N	Y	1	ThreeDimensional	Geode 351445	2024-07-10T20:09:48	216 S College	68	0.6	540164.871	4335205.841	228.083
Soil Probe	SP- 11	17.5	N	Y	1	ThreeDimensional	Geode 351446	2024-07-10T20:11:13	216 S College	60	0.6	540164.562	4335221.45	228.464

Appendix D

Groundwater Sampling Logs

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

Groundwater Sampling Logs

Site Name: Commercial Building
Site Address: 216 S College Ave. Bloomington, IN
BCA Project Number: 24-199
Sampled By: Rod Manny, Renee Hallstein, Brianna Reid
Sampling Equipment: Geotech stainless steel .625 Bladder Pump - disposable poly dual tube - In-Situ SmarTROLL MP Sonde & 1" Disposable Micro Bailer
*Dedicated disposable tubing in all wells

Sample Location	GW Starting Depth	Estimated Flow Rate	Pump Start Time	Temperature Deg F	Turbidity NTU	Specific Conductivity	Dissolved Oxygen	pH	ORP mV	Sample Date	Total Well Depth	Top of Well Screen	Well Screen Length	Pump Intake Depth	Notes
						mS/cm	mg/L								
SP-10	7.24	200ml/min	13:34	68.24	137	2.69	0.11	6.79	-6.2	7.10.2024	18.29	13.29	5.00	17.79	Sampled VOCs, PAHs, Metals
	8.32		13:37	67.59	828	2.79	0.02	6.73	-12.9						Purged ~2 gallons
	8.32		13:40	68.60	907	2.82	0.02	6.71	-19.3						MS/MSD
	8.32		13:43	66.47	1279	2.82	0.02	6.71	-22.6						
	8.32		13:46	66.01	1811	2.84	0.02	6.71	-25.4						
	8.32		13:49	67.37	1982	2.81	0.02	6.69	-27.9						
	8.32		13:52	66.11	2342	2.83	0.06	6.70	-29.2						
	8.32		13:55	65.82	3197	2.83	0.08	6.69	-29.8	Sampled					
SP-11	7.91	250ml/min	14:31	73.66	1700	1.32	3.08	7.08	81.8	7.10.2024	17.89	12.89	5.00	17.39	Sampled VOCs, PAHs, Metals
	8.83		14:34	66.27	3332	1.41	0.30	6.98	41.4						Purged ~ 1 gallon
	10.6		14:37	66.39	3700	1.40	0.27	6.92	18.5						DUP
	11.65		14:40	66.13	2664	1.40	0.32	6.86	7.4						
	12.34		14:43	66.96	3094	1.40	0.28	6.82	-0.4						
	12.34		14:46	66.82	3136	1.40	0.24	6.80	-4.8						
	12.34		14:49	67.06	3324	1.38	0.23	6.82	-8.9	Sampled					
SP-3R	--	Purged Dry, slightly cloudy, odorless, sampled with BAILER @ 16:30								7.10.2024	10.50	5.50	5.00	--	Sampled Metals
SP-6	DRY	Dry well, no sample collected.								--	--	--	--	--	Dry Well
SP-7	9.18	Purged ~1 gallon, sampled with BAILER @ 15:35, No Low-Flow due to sheen on water								7.10.2024	19.69	9.69	10.00	--	Sampled VOCs, PAHs, Metals
SP-8	--	Purged Dry, cloudy, petrol odor, sampled with BAILER @ 16:20								7.10.2024	12.50	7.50	5.00	--	Sampled VOCs, PAHs, Metals
SP-9	11.00	Purged Dry, sampled with BAILER @ 15:48								7.10.2024	13.05	8.05	5.00	--	Sampled VOCs, PAHs, Metals

Appendix E

Analytical Laboratory Reports

Supplemental Phase II
Commercial Building
216 S College Avenue
Bloomington, IN

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

July 26, 2024

Mr. Jacob Teuschler
BCA Environmental Consultants, LLC
7202 E. 87th St.
Suite 110
Indianapolis, IN 46256

RE: Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Dear Mr. Teuschler:

Enclosed are the analytical results for sample(s) received by the laboratory on July 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised Report: This report replaces the one dated 07/25/2024. Client sample ID updated from "SP-7 DUP 10-12'" to "SP-7 7' DUP". (MCS 07/26/2024)

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mackenzie Speidel for
Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Jake Allgood, BCA Environmental Consultants, LLC
Rod Manny, BCA Environmental Consultants, LLC

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50377912001	**SP-10 11'**	Solid	07/10/24 09:50	07/12/24 15:40
50377912002	**SP-8 6'**	Solid	07/10/24 07:50	07/12/24 15:40
50377912003	**SP-8 12'**	Solid	07/10/24 07:55	07/12/24 15:40
50377912004	**SP-9 10.5'**	Solid	07/10/24 08:15	07/12/24 15:40
50377912005	**SP-6 11'**	Solid	07/10/24 08:30	07/12/24 15:40
50377912006	**SP-7 7'**	Solid	07/10/24 08:50	07/12/24 15:40
50377912007	**SP-7 7' DUP**	Solid	07/10/24 08:50	07/12/24 15:40
50377912008	**SP-11 7'**	Solid	07/10/24 09:25	07/12/24 15:40
50377912009	**SP-3R 10'**	Solid	07/10/24 10:15	07/12/24 15:40
50377912010	**SP-6 (6-7')**	Solid	07/10/24 08:25	07/12/24 15:40
50377912011	**SP-7 (7-9')**	Solid	07/10/24 08:50	07/12/24 15:40
50377912012	**SP-7 (10-12')**	Solid	07/10/24 08:55	07/12/24 15:40
50377912013	**SP-7 (10-12') DUP**	Solid	07/10/24 08:55	07/12/24 15:40
50377912014	**SP-8 (7-10')**	Solid	07/10/24 07:50	07/12/24 15:40
50377912015	**SP-8 (10-12')**	Solid	07/10/24 07:55	07/12/24 15:40
50377912016	**SP-9 (7-10')**	Solid	07/10/24 08:10	07/12/24 15:40
50377912017	**SP-9 (10-12')**	Solid	07/10/24 08:15	07/12/24 15:40
50377912018	**SP-10 (0-2')**	Solid	07/10/24 09:40	07/12/24 15:40
50377912019	**SP-10 (5-7')**	Solid	07/10/24 09:45	07/12/24 15:40
50377912020	**SP-11 (0-2')**	Solid	07/10/24 09:20	07/12/24 15:40
50377912021	**SP-11 (5-7')**	Solid	07/10/24 09:25	07/12/24 15:40
50377912022	**SP-11 (2-4')**	Solid	07/10/24 09:20	07/12/24 15:40
50377912023	**SP-3R**	Water	07/10/24 16:30	07/12/24 15:40
50377912024	**SP-7**	Water	07/10/24 15:35	07/12/24 15:40
50377912025	**SP-8**	Water	07/10/24 16:20	07/12/24 15:40
50377912026	**SP-9**	Water	07/10/24 15:48	07/12/24 15:40
50377912027	**SP-10**	Water	07/10/24 13:56	07/12/24 15:40
50377912028	**SP-11**	Water	07/10/24 14:49	07/12/24 15:40
50377912029	**SP-11 DUP**	Water	07/10/24 14:49	07/12/24 15:40
50377912030	**SP-3R FF**	Water	07/10/24 16:30	07/12/24 15:40
50377912031	**SP-7 FF**	Water	07/10/24 15:35	07/12/24 15:40
50377912032	**SP-8 FF**	Water	07/10/24 16:20	07/12/24 15:40
50377912033	**SP-9 FF**	Water	07/10/24 15:48	07/12/24 15:40
50377912034	**SP-10 FF**	Water	07/10/24 13:56	07/12/24 15:40
50377912035	**SP-11 FF**	Water	07/10/24 14:48	07/12/24 15:40
50377912036	**EB-1**	Water	07/10/24 16:45	07/12/24 15:40
50377912037	**Trip Blank**	Solid	07/10/24 08:00	07/12/24 15:40

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50377912038	**Trip Blank**	Water	07/10/24 08:00	07/12/24 15:40

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SAMPLE ANALYTE COUNT

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50377912001	**SP-10 11'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912002	**SP-8 6'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912003	**SP-8 12'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912004	**SP-9 10.5'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912005	**SP-6 11'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912006	**SP-7 7'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912007	**SP-7 7' DUP**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912008	**SP-11 7'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912009	**SP-3R 10'**	EPA 8260	TMW	75	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912010	**SP-6 (6-7')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912011	**SP-7 (7-9')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912012	**SP-7 (10-12')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912013	**SP-7 (10-12') DUP**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912014	**SP-8 (7-10')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912015	**SP-8 (10-12')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912016	**SP-9 (7-10')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912017	**SP-9 (10-12')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912018	**SP-10 (0-2')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912019	**SP-10 (5-7')**	EPA 8270 by SIM	JCM	20	PASI-I

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	QAK	1	PASI-I
50377912020	**SP-11 (0-2')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912021	**SP-11 (5-7')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912022	**SP-11 (2-4')**	EPA 8270 by SIM	JCM	20	PASI-I
		SM 2540G	QAK	1	PASI-I
50377912023	**SP-3R**	EPA 6010	JPK	2	PASI-I
50377912024	**SP-7**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912025	**SP-8**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912026	**SP-9**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912027	**SP-10**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912028	**SP-11**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912029	**SP-11 DUP**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912030	**SP-3R FF**	EPA 6010	JPK	2	PASI-I
50377912031	**SP-7 FF**	EPA 6010	JPK	2	PASI-I
50377912032	**SP-8 FF**	EPA 6010	JPK	2	PASI-I
50377912033	**SP-9 FF**	EPA 6010	JPK	2	PASI-I
50377912034	**SP-10 FF**	EPA 6010	JPK	2	PASI-I
50377912035	**SP-11 FF**	EPA 6010	JPK	2	PASI-I
50377912036	**EB-1**	EPA 6010	JPK	2	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 5030/8260	TMW	75	PASI-I
50377912037	**Trip Blank**	EPA 8260	TMW	75	PASI-I
50377912038	**Trip Blank**	EPA 5030/8260	TMW	75	PASI-I

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912001	**SP-10 11'**					
EPA 8260	Benzene	0.082J	mg/kg	0.26	07/18/24 13:14	
EPA 8260	n-Butylbenzene	0.52	mg/kg	0.26	07/18/24 13:14	
EPA 8260	sec-Butylbenzene	0.38	mg/kg	0.26	07/18/24 13:14	
EPA 8260	tert-Butylbenzene	0.024J	mg/kg	0.26	07/18/24 13:14	
EPA 8260	Ethylbenzene	0.53	mg/kg	0.26	07/18/24 13:14	
EPA 8260	n-Hexane	13.8	mg/kg	0.52	07/19/24 17:24	
EPA 8260	Isopropylbenzene (Cumene)	0.78	mg/kg	0.26	07/18/24 13:14	
EPA 8260	p-Isopropyltoluene	0.30	mg/kg	0.26	07/18/24 13:14	
EPA 8260	1-Methylnaphthalene	0.51J	mg/kg	0.52	07/18/24 13:14	
EPA 8260	2-Methylnaphthalene	0.99	mg/kg	0.52	07/18/24 13:14	
EPA 8260	n-Propylbenzene	1.2	mg/kg	0.26	07/18/24 13:14	
EPA 8260	Xylene (Total)	0.13J	mg/kg	0.52	07/18/24 13:14	
SM 2540G	Percent Moisture	15.8	%	0.10	07/22/24 16:03	N2
50377912002	**SP-8 6'**					
EPA 8260	n-Butylbenzene	0.91	mg/kg	0.34	07/18/24 13:44	
EPA 8260	sec-Butylbenzene	0.51	mg/kg	0.34	07/18/24 13:44	
EPA 8260	tert-Butylbenzene	0.036J	mg/kg	0.34	07/18/24 13:44	
EPA 8260	n-Hexane	0.41	mg/kg	0.34	07/18/24 13:44	
EPA 8260	Isopropylbenzene (Cumene)	0.35	mg/kg	0.34	07/18/24 13:44	
EPA 8260	p-Isopropyltoluene	0.070J	mg/kg	0.34	07/18/24 13:44	
EPA 8260	1-Methylnaphthalene	1.4	mg/kg	0.67	07/18/24 13:44	
EPA 8260	2-Methylnaphthalene	2.2	mg/kg	0.67	07/18/24 13:44	
EPA 8260	n-Propylbenzene	1.0	mg/kg	0.34	07/18/24 13:44	
SM 2540G	Percent Moisture	20.5	%	0.10	07/22/24 16:04	N2
50377912003	**SP-8 12'**					
EPA 8260	Benzene	0.14	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	n-Butylbenzene	0.0044J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	sec-Butylbenzene	0.0046J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	tert-Butylbenzene	0.00042J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	Ethylbenzene	0.0010J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	n-Hexane	0.12	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	Isopropylbenzene (Cumene)	0.0071	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	p-Isopropyltoluene	0.0016J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	1-Methylnaphthalene	0.019	mg/kg	0.0095	07/18/24 14:15	
EPA 8260	2-Methylnaphthalene	0.021	mg/kg	0.0095	07/18/24 14:15	
EPA 8260	n-Propylbenzene	0.0090	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	Toluene	0.0050	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	1,2,4-Trimethylbenzene	0.0012J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	1,3,5-Trimethylbenzene	0.00089J	mg/kg	0.0048	07/18/24 14:15	
EPA 8260	Xylene (Total)	0.018	mg/kg	0.0095	07/18/24 14:15	
SM 2540G	Percent Moisture	17.4	%	0.10	07/22/24 16:04	N2
50377912004	**SP-9 10.5'**					
EPA 8260	n-Butylbenzene	0.62	mg/kg	0.24	07/18/24 14:45	
EPA 8260	sec-Butylbenzene	0.50	mg/kg	0.24	07/18/24 14:45	
EPA 8260	tert-Butylbenzene	0.030J	mg/kg	0.24	07/18/24 14:45	
EPA 8260	Ethylbenzene	0.17J	mg/kg	0.24	07/18/24 14:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912004	**SP-9 10.5'**					
EPA 8260	n-Hexane	11.6	mg/kg	0.24	07/18/24 14:45	
EPA 8260	Isopropylbenzene (Cumene)	0.83	mg/kg	0.24	07/18/24 14:45	
EPA 8260	p-Isopropyltoluene	0.27	mg/kg	0.24	07/18/24 14:45	
EPA 8260	1-Methylnaphthalene	0.86	mg/kg	0.48	07/18/24 14:45	
EPA 8260	2-Methylnaphthalene	1.5	mg/kg	0.48	07/18/24 14:45	
EPA 8260	n-Propylbenzene	1.4	mg/kg	0.24	07/18/24 14:45	
EPA 8260	Xylene (Total)	0.14J	mg/kg	0.48	07/18/24 14:45	
SM 2540G	Percent Moisture	20.9	%	0.10	07/22/24 16:04	N2
50377912005	**SP-6 11'**					
EPA 8260	sec-Butylbenzene	0.46	mg/kg	0.41	07/19/24 16:54	
EPA 8260	tert-Butylbenzene	0.12J	mg/kg	0.41	07/19/24 16:54	
SM 2540G	Percent Moisture	30.6	%	0.10	07/22/24 16:04	N2
50377912006	**SP-7 7'**					
EPA 8260	n-Butylbenzene	0.99	mg/kg	0.51	07/18/24 15:46	
EPA 8260	sec-Butylbenzene	1.6	mg/kg	0.51	07/18/24 15:46	
EPA 8260	tert-Butylbenzene	0.080J	mg/kg	0.51	07/18/24 15:46	
EPA 8260	n-Hexane	1.9	mg/kg	0.51	07/18/24 15:46	
EPA 8260	Isopropylbenzene (Cumene)	1.9	mg/kg	0.51	07/18/24 15:46	
EPA 8260	p-Isopropyltoluene	0.26J	mg/kg	0.51	07/18/24 15:46	
EPA 8260	1-Methylnaphthalene	1.4	mg/kg	1.0	07/18/24 15:46	
EPA 8260	2-Methylnaphthalene	1.7	mg/kg	1.0	07/18/24 15:46	
EPA 8260	n-Propylbenzene	3.0	mg/kg	0.51	07/18/24 15:46	
SM 2540G	Percent Moisture	19.4	%	0.10	07/22/24 16:04	N2
50377912007	**SP-7 7' DUP**					
EPA 8260	n-Butylbenzene	1.2	mg/kg	0.30	07/18/24 16:16	
EPA 8260	sec-Butylbenzene	1.8	mg/kg	0.30	07/18/24 16:16	
EPA 8260	tert-Butylbenzene	0.086J	mg/kg	0.30	07/18/24 16:16	
EPA 8260	n-Hexane	2.8	mg/kg	0.30	07/18/24 16:16	
EPA 8260	Isopropylbenzene (Cumene)	2.1	mg/kg	0.30	07/18/24 16:16	
EPA 8260	p-Isopropyltoluene	0.31	mg/kg	0.30	07/18/24 16:16	
EPA 8260	1-Methylnaphthalene	1.4	mg/kg	0.60	07/18/24 16:16	
EPA 8260	2-Methylnaphthalene	1.9	mg/kg	0.60	07/18/24 16:16	
EPA 8260	n-Propylbenzene	3.5	mg/kg	0.30	07/18/24 16:16	
SM 2540G	Percent Moisture	20.2	%	0.10	07/22/24 16:04	N2
50377912008	**SP-11 7'**					
EPA 8260	n-Butylbenzene	1.6	mg/kg	0.27	07/19/24 01:23	
EPA 8260	sec-Butylbenzene	1.2	mg/kg	0.27	07/19/24 01:23	
EPA 8260	tert-Butylbenzene	0.069J	mg/kg	0.27	07/19/24 01:23	
EPA 8260	n-Hexane	0.52	mg/kg	0.27	07/19/24 01:23	
EPA 8260	Isopropylbenzene (Cumene)	1.0	mg/kg	0.27	07/19/24 01:23	
EPA 8260	p-Isopropyltoluene	0.95	mg/kg	0.27	07/19/24 01:23	
EPA 8260	1-Methylnaphthalene	1.2	mg/kg	0.55	07/19/24 01:23	
EPA 8260	2-Methylnaphthalene	2.3	mg/kg	0.55	07/19/24 01:23	
EPA 8260	n-Propylbenzene	2.0	mg/kg	0.27	07/19/24 01:23	
SM 2540G	Percent Moisture	18.9	%	0.10	07/22/24 16:04	N2

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912009	**SP-3R 10'**					
EPA 8260	Acetone	0.0088J	mg/kg	0.11	07/19/24 02:54	
EPA 8260	1-Methylnaphthalene	0.0025J	mg/kg	0.011	07/19/24 02:54	B
EPA 8260	Toluene	0.0014J	mg/kg	0.0053	07/19/24 02:54	
SM 2540G	Percent Moisture	17.8	%	0.10	07/22/24 16:04	N2
50377912010	**SP-6 (6-7')**					
EPA 8270 by SIM	Acenaphthene	0.011	mg/kg	0.0063	07/19/24 01:45	
EPA 8270 by SIM	Fluorene	0.019	mg/kg	0.0063	07/19/24 01:45	
EPA 8270 by SIM	1-Methylnaphthalene	0.019	mg/kg	0.0063	07/19/24 01:45	
EPA 8270 by SIM	Phenanthrene	0.010	mg/kg	0.0063	07/19/24 01:45	
SM 2540G	Percent Moisture	21.2	%	0.10	07/22/24 16:04	N2
50377912011	**SP-7 (7-9')**					
EPA 8270 by SIM	Acenaphthene	0.0082	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Acenaphthylene	0.0031J	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Benzo(a)anthracene	0.010	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Benzo(a)pyrene	0.0059J	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0071	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Chrysene	0.023	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Fluoranthene	0.017	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Fluorene	0.031	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	1-Methylnaphthalene	0.39	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	2-Methylnaphthalene	0.66	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Phenanthrene	0.057	mg/kg	0.0061	07/19/24 11:57	
EPA 8270 by SIM	Pyrene	0.018	mg/kg	0.0061	07/19/24 11:57	
SM 2540G	Percent Moisture	20.9	%	0.10	07/22/24 16:05	N2
50377912012	**SP-7 (10-12')**					
EPA 8270 by SIM	Acenaphthene	0.011	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Benzo(a)anthracene	0.013	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Benzo(a)pyrene	0.0085	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0097	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0046J	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Chrysene	0.032	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Fluoranthene	0.023	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Fluorene	0.036	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	1-Methylnaphthalene	0.50	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	2-Methylnaphthalene	0.83	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Phenanthrene	0.079	mg/kg	0.0063	07/19/24 12:11	
EPA 8270 by SIM	Pyrene	0.025	mg/kg	0.0063	07/19/24 12:11	
SM 2540G	Percent Moisture	22.4	%	0.10	07/22/24 16:05	N2
50377912013	**SP-7 (10-12') DUP**					
EPA 8270 by SIM	Acenaphthene	0.016	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Benzo(a)anthracene	0.016	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Benzo(a)pyrene	0.0094	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.012	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.0042J	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Chrysene	0.036	mg/kg	0.0064	07/19/24 13:24	

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912013	**SP-7 (10-12') DUP**					
EPA 8270 by SIM	Fluoranthene	0.029	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Fluorene	0.045	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	1-Methylnaphthalene	0.69	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	2-Methylnaphthalene	1.2	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Phenanthrene	0.083	mg/kg	0.0064	07/19/24 13:24	
EPA 8270 by SIM	Pyrene	0.031	mg/kg	0.0064	07/19/24 13:24	
SM 2540G	Percent Moisture	23.6	%	0.10	07/22/24 16:05	N2
50377912014	**SP-8 (7-10')**					
EPA 8270 by SIM	Chrysene	0.0052J	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	Fluoranthene	0.0046J	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	1-Methylnaphthalene	0.12	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	2-Methylnaphthalene	0.23	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	Naphthalene	0.17	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	Phenanthrene	0.0088	mg/kg	0.0060	07/19/24 13:39	
EPA 8270 by SIM	Pyrene	0.0044J	mg/kg	0.0060	07/19/24 13:39	
SM 2540G	Percent Moisture	21.3	%	0.10	07/22/24 16:07	N2
50377912015	**SP-8 (10-12')**					
EPA 8270 by SIM	Acenaphthene	0.0055J	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Acenaphthylene	0.0051J	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Benzo(a)anthracene	0.0088	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Benzo(a)pyrene	0.0042J	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0046J	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Chrysene	0.017	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Fluoranthene	0.012	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Fluorene	0.014	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	1-Methylnaphthalene	0.19	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	2-Methylnaphthalene	0.26	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Naphthalene	0.11	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Phenanthrene	0.024	mg/kg	0.0061	07/19/24 13:53	
EPA 8270 by SIM	Pyrene	0.013	mg/kg	0.0061	07/19/24 13:53	
SM 2540G	Percent Moisture	20.5	%	0.10	07/22/24 16:08	N2
50377912016	**SP-9 (7-10')**					
EPA 8270 by SIM	Acenaphthene	0.0046J	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Benzo(a)anthracene	0.0056J	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Chrysene	0.013	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Fluoranthene	0.0099	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Fluorene	0.012	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	1-Methylnaphthalene	0.20	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	2-Methylnaphthalene	0.32	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Phenanthrene	0.016	mg/kg	0.0061	07/19/24 14:07	
EPA 8270 by SIM	Pyrene	0.0094	mg/kg	0.0061	07/19/24 14:07	
SM 2540G	Percent Moisture	18.7	%	0.10	07/22/24 16:08	N2
50377912017	**SP-9 (10-12')**					
EPA 8270 by SIM	Benzo(a)anthracene	0.0047J	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	Chrysene	0.0087	mg/kg	0.0057	07/19/24 14:21	

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912017	**SP-9 (10-12')**					
EPA 8270 by SIM	Fluoranthene	0.0062	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	Fluorene	0.0074	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	1-Methylnaphthalene	0.15	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	2-Methylnaphthalene	0.28	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	Phenanthrene	0.011	mg/kg	0.0057	07/19/24 14:21	
EPA 8270 by SIM	Pyrene	0.0057J	mg/kg	0.0057	07/19/24 14:21	
SM 2540G	Percent Moisture	16.1	%	0.10	07/22/24 16:08	N2
50377912018	**SP-10 (0-2')**					
EPA 8270 by SIM	Acenaphthylene	0.021	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Anthracene	0.0083	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Benzo(a)anthracene	0.045	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Benzo(a)pyrene	0.058	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.094	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.044	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Chrysene	0.055	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.014	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Fluoranthene	0.062	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Fluorene	0.0096	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.037	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	1-Methylnaphthalene	0.026	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	2-Methylnaphthalene	0.050	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Naphthalene	0.016	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Phenanthrene	0.031	mg/kg	0.0057	07/19/24 14:35	
EPA 8270 by SIM	Pyrene	0.076	mg/kg	0.0057	07/19/24 14:35	
SM 2540G	Percent Moisture	14.7	%	0.10	07/22/24 16:08	N2
50377912019	**SP-10 (5-7')**					
EPA 8270 by SIM	1-Methylnaphthalene	0.032	mg/kg	0.0063	07/19/24 14:50	
EPA 8270 by SIM	2-Methylnaphthalene	0.040	mg/kg	0.0063	07/19/24 14:50	
SM 2540G	Percent Moisture	22.9	%	0.10	07/23/24 13:39	N2
50377912020	**SP-11 (0-2')**					
EPA 8270 by SIM	Anthracene	0.037	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Benzo(a)anthracene	0.086	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Benzo(a)pyrene	0.11	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.11	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.062	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	0.039	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Chrysene	0.16	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Fluoranthene	0.22	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Fluorene	0.040	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.055	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	1-Methylnaphthalene	0.038	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	2-Methylnaphthalene	0.035	mg/kg	0.026	07/19/24 15:04	
EPA 8270 by SIM	Naphthalene	0.12	mg/kg	0.026	07/19/24 15:04	ED, R1
EPA 8270 by SIM	Phenanthrene	0.27	mg/kg	0.026	07/19/24 15:04	R1
EPA 8270 by SIM	Pyrene	0.27	mg/kg	0.026	07/19/24 15:04	
SM 2540G	Percent Moisture	9.8	%	0.10	07/23/24 13:39	N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912021	**SP-11 (5-7')**					
SM 2540G	Percent Moisture	21.4	%	0.10	07/23/24 13:39	N2
50377912022	**SP-11 (2-4')**					
SM 2540G	Percent Moisture	18.4	%	0.10	07/23/24 13:39	N2
50377912023	**SP-3R**					
EPA 6010	Arsenic	7.3J	ug/L	10.0	07/20/24 01:27	
EPA 6010	Lead	10.6	ug/L	10.0	07/20/24 01:27	
50377912024	**SP-7**					
EPA 6010	Arsenic	23.3	ug/L	10.0	07/20/24 01:29	
EPA 6010	Lead	30.1	ug/L	10.0	07/20/24 01:29	
EPA 8270 by SIM 40E	Acenaphthene	0.31J	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	Acenaphthylene	0.077J	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	Fluoranthene	0.087J	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	Fluorene	0.54J	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	1-Methylnaphthalene	20.2	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	2-Methylnaphthalene	14.1	ug/L	0.99	07/15/24 23:10	
EPA 8270 by SIM 40E	Phenanthrene	0.63J	ug/L	0.99	07/15/24 23:10	
EPA 5030/8260	Benzene	228	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	n-Butylbenzene	5.2	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	sec-Butylbenzene	8.7	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	tert-Butylbenzene	0.82J	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	Ethylbenzene	6.3	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	n-Hexane	85.0	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	Isopropylbenzene (Cumene)	52.5	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	p-Isopropyltoluene	3.7J	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	1-Methylnaphthalene	16.7	ug/L	10.0	07/18/24 20:04	
EPA 5030/8260	2-Methylnaphthalene	11.5	ug/L	10.0	07/18/24 20:04	
EPA 5030/8260	n-Propylbenzene	48.2	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	Toluene	14.0	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	1,2,4-Trimethylbenzene	0.84J	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	1,3,5-Trimethylbenzene	1.4J	ug/L	5.0	07/18/24 20:04	
EPA 5030/8260	Xylene (Total)	28.8	ug/L	10.0	07/18/24 20:04	
50377912025	**SP-8**					
EPA 6010	Arsenic	58.3	ug/L	10.0	07/20/24 01:31	
EPA 6010	Lead	118	ug/L	10.0	07/20/24 01:31	
EPA 8270 by SIM 40E	Acenaphthene	0.46J	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	Acenaphthylene	0.30J	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	Anthracene	0.13	ug/L	0.10	07/15/24 23:21	
EPA 8270 by SIM 40E	Benzo(a)anthracene	0.36	ug/L	0.10	07/15/24 23:21	
EPA 8270 by SIM 40E	Benzo(b)fluoranthene	0.10J	ug/L	0.10	07/15/24 23:21	
EPA 8270 by SIM 40E	Chrysene	0.64	ug/L	0.51	07/15/24 23:21	
EPA 8270 by SIM 40E	Fluoranthene	0.25J	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	Fluorene	0.52J	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	1-Methylnaphthalene	26.2	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	2-Methylnaphthalene	31.4	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	Naphthalene	13.7	ug/L	1.0	07/15/24 23:21	

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(317)228-3100

SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912025	**SP-8**					
EPA 8270 by SIM 40E	Phenanthrene	1.1	ug/L	1.0	07/15/24 23:21	
EPA 8270 by SIM 40E	Pyrene	0.35J	ug/L	1.0	07/15/24 23:21	
EPA 5030/8260	Benzene	540	ug/L	50.0	07/19/24 17:55	
EPA 5030/8260	n-Butylbenzene	5.7	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	sec-Butylbenzene	6.1	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	tert-Butylbenzene	0.48J	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	Ethylbenzene	26.3	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	n-Hexane	142	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	Isopropylbenzene (Cumene)	25.0	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	p-Isopropyltoluene	4.4J	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	1-Methylnaphthalene	23.0	ug/L	10.0	07/18/24 20:34	
EPA 5030/8260	2-Methylnaphthalene	27.2	ug/L	10.0	07/18/24 20:34	
EPA 5030/8260	Naphthalene	8.8	ug/L	1.2	07/18/24 20:34	
EPA 5030/8260	n-Propylbenzene	35.0	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	Toluene	14.7	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	1,2,4-Trimethylbenzene	22.9	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	1,3,5-Trimethylbenzene	11.7	ug/L	5.0	07/18/24 20:34	
EPA 5030/8260	Xylene (Total)	59.9	ug/L	10.0	07/18/24 20:34	
50377912026	**SP-9**					
EPA 6010	Arsenic	20.8	ug/L	10.0	07/20/24 01:32	
EPA 6010	Lead	16.3	ug/L	10.0	07/20/24 01:32	
EPA 8270 by SIM 40E	Acenaphthene	0.36J	ug/L	1.0	07/15/24 23:32	
EPA 8270 by SIM 40E	Acenaphthylene	0.086J	ug/L	1.0	07/15/24 23:32	
EPA 8270 by SIM 40E	Fluorene	0.28J	ug/L	1.0	07/15/24 23:32	
EPA 8270 by SIM 40E	1-Methylnaphthalene	18.6	ug/L	1.0	07/15/24 23:32	
EPA 8270 by SIM 40E	2-Methylnaphthalene	12.8	ug/L	1.0	07/15/24 23:32	
EPA 8270 by SIM 40E	Phenanthrene	0.24J	ug/L	1.0	07/15/24 23:32	
EPA 5030/8260	Benzene	42.5	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	n-Butylbenzene	2.2J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	sec-Butylbenzene	4.7J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	tert-Butylbenzene	0.49J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	Ethylbenzene	1.5J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	n-Hexane	28.3	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	Isopropylbenzene (Cumene)	15.1	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	p-Isopropyltoluene	0.72J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	1-Methylnaphthalene	14.4	ug/L	10.0	07/18/24 21:04	
EPA 5030/8260	2-Methylnaphthalene	9.7J	ug/L	10.0	07/18/24 21:04	
EPA 5030/8260	n-Propylbenzene	13.3	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	Toluene	3.5J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	1,2,4-Trimethylbenzene	0.57J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	1,3,5-Trimethylbenzene	0.50J	ug/L	5.0	07/18/24 21:04	
EPA 5030/8260	Xylene (Total)	13.0	ug/L	10.0	07/18/24 21:04	
50377912027	**SP-10**					
EPA 6010	Arsenic	101	ug/L	50.0	07/20/24 01:34	
EPA 6010	Lead	240	ug/L	50.0	07/20/24 01:34	
EPA 8270 by SIM 40E	Acenaphthene	0.13J	ug/L	0.99	07/15/24 23:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912027	**SP-10**					
EPA 8270 by SIM 40E	1-Methylnaphthalene	12.5	ug/L	0.99	07/15/24 23:42	
EPA 8270 by SIM 40E	2-Methylnaphthalene	14.1	ug/L	0.99	07/15/24 23:42	
EPA 8270 by SIM 40E	Naphthalene	2.6	ug/L	0.99	07/15/24 23:42	
EPA 5030/8260	Benzene	241	ug/L	5.0	07/19/24 02:39	M1
EPA 5030/8260	2-Butanone (MEK)	40.4	ug/L	25.0	07/19/24 02:39	
EPA 5030/8260	n-Butylbenzene	3.0J	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	sec-Butylbenzene	3.5J	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	tert-Butylbenzene	0.57J	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	Ethylbenzene	13.3	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	n-Hexane	106	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	Isopropylbenzene (Cumene)	14.8	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	p-Isopropyltoluene	2.3J	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	1-Methylnaphthalene	9.2J	ug/L	10.0	07/19/24 02:39	
EPA 5030/8260	2-Methylnaphthalene	11.0	ug/L	10.0	07/19/24 02:39	
EPA 5030/8260	Naphthalene	2.7	ug/L	1.2	07/19/24 02:39	
EPA 5030/8260	n-Propylbenzene	12.5	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	Toluene	9.7	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	1,2,4-Trimethylbenzene	7.1	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	1,3,5-Trimethylbenzene	4.3J	ug/L	5.0	07/19/24 02:39	
EPA 5030/8260	Xylene (Total)	23.0	ug/L	10.0	07/19/24 02:39	
50377912028	**SP-11**					
EPA 6010	Arsenic	27.9	ug/L	10.0	07/20/24 01:40	
EPA 6010	Lead	24.5	ug/L	10.0	07/20/24 01:40	
EPA 8270 by SIM 40E	1-Methylnaphthalene	6.2	ug/L	0.98	07/16/24 00:15	
EPA 8270 by SIM 40E	2-Methylnaphthalene	9.4	ug/L	0.98	07/16/24 00:15	
EPA 5030/8260	Benzene	2.1J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	n-Butylbenzene	2.4J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	sec-Butylbenzene	2.4J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	tert-Butylbenzene	0.44J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	Ethylbenzene	22.4	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	n-Hexane	25.2	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	Isopropylbenzene (Cumene)	11.5	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	p-Isopropyltoluene	2.3J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	1-Methylnaphthalene	5.5J	ug/L	10.0	07/18/24 21:35	
EPA 5030/8260	2-Methylnaphthalene	7.1J	ug/L	10.0	07/18/24 21:35	
EPA 5030/8260	n-Propylbenzene	13.5	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	1,2,4-Trimethylbenzene	10.6	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	1,3,5-Trimethylbenzene	3.4J	ug/L	5.0	07/18/24 21:35	
EPA 5030/8260	Xylene (Total)	6.5J	ug/L	10.0	07/18/24 21:35	
50377912029	**SP-11 DUP**					
EPA 6010	Arsenic	26.6	ug/L	10.0	07/20/24 01:41	
EPA 6010	Lead	22.5	ug/L	10.0	07/20/24 01:41	
EPA 8270 by SIM 40E	1-Methylnaphthalene	5.9	ug/L	1.0	07/16/24 00:25	
EPA 8270 by SIM 40E	2-Methylnaphthalene	8.8	ug/L	1.0	07/16/24 00:25	
EPA 5030/8260	Benzene	2.1J	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	n-Butylbenzene	2.4J	ug/L	5.0	07/18/24 22:05	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50377912029	**SP-11 DUP**					
EPA 5030/8260	sec-Butylbenzene	2.6J	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	tert-Butylbenzene	0.49J	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	Ethylbenzene	25.2	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	n-Hexane	25.2	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	Isopropylbenzene (Cumene)	12.2	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	p-Isopropyltoluene	2.4J	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	1-Methylnaphthalene	5.0J	ug/L	10.0	07/18/24 22:05	
EPA 5030/8260	2-Methylnaphthalene	7.0J	ug/L	10.0	07/18/24 22:05	
EPA 5030/8260	n-Propylbenzene	14.0	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	1,2,4-Trimethylbenzene	12.0	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	1,3,5-Trimethylbenzene	3.6J	ug/L	5.0	07/18/24 22:05	
EPA 5030/8260	Xylene (Total)	7.3J	ug/L	10.0	07/18/24 22:05	
50377912030	**SP-3R FF**					
EPA 6010	Arsenic	5.5J	ug/L	10.0	07/20/24 01:43	
50377912032	**SP-8 FF**					
EPA 6010	Arsenic	6.2J	ug/L	10.0	07/20/24 01:50	
50377912034	**SP-10 FF**					
EPA 6010	Arsenic	13.7	ug/L	10.0	07/20/24 01:54	
EPA 6010	Lead	21.9	ug/L	10.0	07/20/24 01:54	
50377912035	**SP-11 FF**					
EPA 6010	Arsenic	11.8	ug/L	10.0	07/20/24 01:56	
EPA 6010	Lead	6.1J	ug/L	10.0	07/20/24 01:56	
50377912037	**Trip Blank**					
EPA 8260	Acetone	0.0088J	mg/kg	0.10	07/19/24 03:25	
EPA 8260	n-Hexane	0.035	mg/kg	0.0050	07/19/24 03:25	C0
EPA 8260	1-Methylnaphthalene	0.0018J	mg/kg	0.010	07/19/24 03:25	B
EPA 8260	Trichloroethene	0.0027J	mg/kg	0.0050	07/19/24 03:25	
EPA 8260	Trichlorofluoromethane	0.0032J	mg/kg	0.0050	07/19/24 03:25	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 11' **Lab ID: 50377912001** Collected: 07/10/24 09:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5.707 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.28**	mg/kg	5.2	0.28	50		07/18/24 13:14	67-64-1	
Acrolein	**<0.85**	mg/kg	5.2	0.85	50		07/18/24 13:14	107-02-8	
Acrylonitrile	**<0.088**	mg/kg	5.2	0.088	50		07/18/24 13:14	107-13-1	
Benzene	**0.082J**	mg/kg	0.26	0.0090	50		07/18/24 13:14	71-43-2	
Bromobenzene	**<0.015**	mg/kg	0.26	0.015	50		07/18/24 13:14	108-86-1	
Bromochloromethane	**<0.018**	mg/kg	0.26	0.018	50		07/18/24 13:14	74-97-5	
Bromodichloromethane	**<0.016**	mg/kg	0.26	0.016	50		07/18/24 13:14	75-27-4	
Bromoform	**<0.096**	mg/kg	0.26	0.096	50		07/18/24 13:14	75-25-2	
Bromomethane	**<0.049**	mg/kg	0.26	0.049	50		07/18/24 13:14	74-83-9	
2-Butanone (MEK)	**<0.54**	mg/kg	1.3	0.54	50		07/18/24 13:14	78-93-3	
n-Butylbenzene	**0.52**	mg/kg	0.26	0.020	50		07/18/24 13:14	104-51-8	
sec-Butylbenzene	**0.38**	mg/kg	0.26	0.013	50		07/18/24 13:14	135-98-8	
tert-Butylbenzene	**0.024J**	mg/kg	0.26	0.010	50		07/18/24 13:14	98-06-6	
Carbon disulfide	**<0.045**	mg/kg	0.52	0.045	50		07/18/24 13:14	75-15-0	
Carbon tetrachloride	**<0.073**	mg/kg	0.26	0.073	50		07/18/24 13:14	56-23-5	
Chlorobenzene	**<0.011**	mg/kg	0.26	0.011	50		07/18/24 13:14	108-90-7	
Chloroethane	**<0.048**	mg/kg	0.26	0.048	50		07/18/24 13:14	75-00-3	
Chloroform	**<0.14**	mg/kg	0.26	0.14	50		07/18/24 13:14	67-66-3	
Chloromethane	**<0.022**	mg/kg	0.26	0.022	50		07/18/24 13:14	74-87-3	
2-Chlorotoluene	**<0.012**	mg/kg	0.26	0.012	50		07/18/24 13:14	95-49-8	
4-Chlorotoluene	**<0.011**	mg/kg	0.26	0.011	50		07/18/24 13:14	106-43-4	
Dibromochloromethane	**<0.019**	mg/kg	0.26	0.019	50		07/18/24 13:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.021**	mg/kg	0.26	0.021	50		07/18/24 13:14	106-93-4	
Dibromomethane	**<0.057**	mg/kg	0.26	0.057	50		07/18/24 13:14	74-95-3	
1,2-Dichlorobenzene	**<0.015**	mg/kg	0.26	0.015	50		07/18/24 13:14	95-50-1	
1,3-Dichlorobenzene	**<0.015**	mg/kg	0.26	0.015	50		07/18/24 13:14	541-73-1	
1,4-Dichlorobenzene	**<0.016**	mg/kg	0.26	0.016	50		07/18/24 13:14	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.13**	mg/kg	5.2	0.13	50		07/18/24 13:14	110-57-6	
Dichlorodifluoromethane	**<0.019**	mg/kg	0.26	0.019	50		07/18/24 13:14	75-71-8	
1,1-Dichloroethane	**<0.012**	mg/kg	0.26	0.012	50		07/18/24 13:14	75-34-3	
1,2-Dichloroethane	**<0.013**	mg/kg	0.26	0.013	50		07/18/24 13:14	107-06-2	
1,1-Dichloroethene	**<0.021**	mg/kg	0.26	0.021	50		07/18/24 13:14	75-35-4	
cis-1,2-Dichloroethene	**<0.017**	mg/kg	0.26	0.017	50		07/18/24 13:14	156-59-2	
trans-1,2-Dichloroethene	**<0.024**	mg/kg	0.26	0.024	50		07/18/24 13:14	156-60-5	
1,2-Dichloropropane	**<0.020**	mg/kg	0.26	0.020	50		07/18/24 13:14	78-87-5	
1,3-Dichloropropane	**<0.014**	mg/kg	0.26	0.014	50		07/18/24 13:14	142-28-9	
2,2-Dichloropropane	**<0.087**	mg/kg	0.26	0.087	50		07/18/24 13:14	594-20-7	
1,1-Dichloropropene	**<0.014**	mg/kg	0.26	0.014	50		07/18/24 13:14	563-58-6	
cis-1,3-Dichloropropene	**<0.046**	mg/kg	0.26	0.046	50		07/18/24 13:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.059**	mg/kg	0.26	0.059	50		07/18/24 13:14	10061-02-6	
Ethylbenzene	**0.53**	mg/kg	0.26	0.013	50		07/18/24 13:14	100-41-4	
Ethyl methacrylate	**<0.16**	mg/kg	5.2	0.16	50		07/18/24 13:14	97-63-2	
Hexachloro-1,3-butadiene	**<0.026**	mg/kg	0.26	0.026	50		07/18/24 13:14	87-68-3	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 11' **Lab ID: 50377912001** Collected: 07/10/24 09:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 5.707 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**13.8**	mg/kg	0.52	0.057	100		07/19/24 17:24	110-54-3	
2-Hexanone	**<0.11**	mg/kg	5.2	0.11	50		07/18/24 13:14	591-78-6	
Iodomethane	**<0.14**	mg/kg	5.2	0.14	50		07/18/24 13:14	74-88-4	
Isopropylbenzene (Cumene)	**0.78**	mg/kg	0.26	0.012	50		07/18/24 13:14	98-82-8	
p-Isopropyltoluene	**0.30**	mg/kg	0.26	0.016	50		07/18/24 13:14	99-87-6	
Methylene Chloride	**<0.64**	mg/kg	1.0	0.64	50		07/18/24 13:14	75-09-2	
1-Methylnaphthalene	**0.51J**	mg/kg	0.52	0.014	50		07/18/24 13:14	90-12-0	
2-Methylnaphthalene	**0.99**	mg/kg	0.52	0.14	50		07/18/24 13:14	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.14**	mg/kg	1.3	0.14	50		07/18/24 13:14	108-10-1	
Methyl-tert-butyl ether	**<0.013**	mg/kg	0.26	0.013	50		07/18/24 13:14	1634-04-4	
Naphthalene	**<0.099**	mg/kg	0.26	0.099	50		07/18/24 13:14	91-20-3	
n-Propylbenzene	**1.2**	mg/kg	0.26	0.011	50		07/18/24 13:14	103-65-1	
Styrene	**<0.012**	mg/kg	0.26	0.012	50		07/18/24 13:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.014**	mg/kg	0.26	0.014	50		07/18/24 13:14	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.029**	mg/kg	0.26	0.029	50		07/18/24 13:14	79-34-5	
Tetrachloroethene	**<0.016**	mg/kg	0.26	0.016	50		07/18/24 13:14	127-18-4	
Toluene	**<0.024**	mg/kg	0.26	0.024	50		07/18/24 13:14	108-88-3	
1,2,3-Trichlorobenzene	**<0.045**	mg/kg	0.26	0.045	50		07/18/24 13:14	87-61-6	
1,2,4-Trichlorobenzene	**<0.040**	mg/kg	0.26	0.040	50		07/18/24 13:14	120-82-1	
1,1,1-Trichloroethane	**<0.018**	mg/kg	0.26	0.018	50		07/18/24 13:14	71-55-6	
1,1,2-Trichloroethane	**<0.048**	mg/kg	0.26	0.048	50		07/18/24 13:14	79-00-5	
Trichloroethene	**<0.020**	mg/kg	0.26	0.020	50		07/18/24 13:14	79-01-6	
Trichlorofluoromethane	**<0.021**	mg/kg	0.26	0.021	50		07/18/24 13:14	75-69-4	
1,2,3-Trichloropropane	**<0.067**	mg/kg	0.26	0.067	50		07/18/24 13:14	96-18-4	
1,2,4-Trimethylbenzene	**<0.036**	mg/kg	0.26	0.036	50		07/18/24 13:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.014**	mg/kg	0.26	0.014	50		07/18/24 13:14	108-67-8	
Vinyl acetate	**<0.062**	mg/kg	5.2	0.062	50		07/18/24 13:14	108-05-4	
Vinyl chloride	**<0.056**	mg/kg	0.26	0.056	50		07/18/24 13:14	75-01-4	
Xylene (Total)	**0.13J**	mg/kg	0.52	0.11	50		07/18/24 13:14	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	90	%.	75-135		50		07/18/24 13:14	1868-53-7	
Toluene-d8 (S)	128	%.	65-148		50		07/18/24 13:14	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	63-132		50		07/18/24 13:14	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**15.8**	%	0.10	0.10	1		07/22/24 16:03		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 6' **Lab ID: 50377912002** Collected: 07/10/24 07:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 4.661 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.37**	mg/kg	6.7	0.37	50		07/18/24 13:44	67-64-1	
Acrolein	**<1.1**	mg/kg	6.7	1.1	50		07/18/24 13:44	107-02-8	
Acrylonitrile	**<0.11**	mg/kg	6.7	0.11	50		07/18/24 13:44	107-13-1	
Benzene	**<0.012**	mg/kg	0.34	0.012	50		07/18/24 13:44	71-43-2	
Bromobenzene	**<0.020**	mg/kg	0.34	0.020	50		07/18/24 13:44	108-86-1	
Bromochloromethane	**<0.024**	mg/kg	0.34	0.024	50		07/18/24 13:44	74-97-5	
Bromodichloromethane	**<0.020**	mg/kg	0.34	0.020	50		07/18/24 13:44	75-27-4	
Bromoform	**<0.12**	mg/kg	0.34	0.12	50		07/18/24 13:44	75-25-2	
Bromomethane	**<0.064**	mg/kg	0.34	0.064	50		07/18/24 13:44	74-83-9	
2-Butanone (MEK)	**<0.70**	mg/kg	1.7	0.70	50		07/18/24 13:44	78-93-3	
n-Butylbenzene	**0.91**	mg/kg	0.34	0.026	50		07/18/24 13:44	104-51-8	
sec-Butylbenzene	**0.51**	mg/kg	0.34	0.017	50		07/18/24 13:44	135-98-8	
tert-Butylbenzene	**0.036J**	mg/kg	0.34	0.013	50		07/18/24 13:44	98-06-6	
Carbon disulfide	**<0.059**	mg/kg	0.67	0.059	50		07/18/24 13:44	75-15-0	
Carbon tetrachloride	**<0.095**	mg/kg	0.34	0.095	50		07/18/24 13:44	56-23-5	
Chlorobenzene	**<0.014**	mg/kg	0.34	0.014	50		07/18/24 13:44	108-90-7	
Chloroethane	**<0.062**	mg/kg	0.34	0.062	50		07/18/24 13:44	75-00-3	
Chloroform	**<0.18**	mg/kg	0.34	0.18	50		07/18/24 13:44	67-66-3	
Chloromethane	**<0.029**	mg/kg	0.34	0.029	50		07/18/24 13:44	74-87-3	
2-Chlorotoluene	**<0.015**	mg/kg	0.34	0.015	50		07/18/24 13:44	95-49-8	
4-Chlorotoluene	**<0.014**	mg/kg	0.34	0.014	50		07/18/24 13:44	106-43-4	
Dibromochloromethane	**<0.024**	mg/kg	0.34	0.024	50		07/18/24 13:44	124-48-1	
1,2-Dibromoethane (EDB)	**<0.027**	mg/kg	0.34	0.027	50		07/18/24 13:44	106-93-4	
Dibromomethane	**<0.074**	mg/kg	0.34	0.074	50		07/18/24 13:44	74-95-3	
1,2-Dichlorobenzene	**<0.020**	mg/kg	0.34	0.020	50		07/18/24 13:44	95-50-1	
1,3-Dichlorobenzene	**<0.019**	mg/kg	0.34	0.019	50		07/18/24 13:44	541-73-1	
1,4-Dichlorobenzene	**<0.020**	mg/kg	0.34	0.020	50		07/18/24 13:44	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.17**	mg/kg	6.7	0.17	50		07/18/24 13:44	110-57-6	
Dichlorodifluoromethane	**<0.025**	mg/kg	0.34	0.025	50		07/18/24 13:44	75-71-8	
1,1-Dichloroethane	**<0.015**	mg/kg	0.34	0.015	50		07/18/24 13:44	75-34-3	
1,2-Dichloroethane	**<0.017**	mg/kg	0.34	0.017	50		07/18/24 13:44	107-06-2	
1,1-Dichloroethene	**<0.027**	mg/kg	0.34	0.027	50		07/18/24 13:44	75-35-4	
cis-1,2-Dichloroethene	**<0.023**	mg/kg	0.34	0.023	50		07/18/24 13:44	156-59-2	
trans-1,2-Dichloroethene	**<0.031**	mg/kg	0.34	0.031	50		07/18/24 13:44	156-60-5	
1,2-Dichloropropane	**<0.026**	mg/kg	0.34	0.026	50		07/18/24 13:44	78-87-5	
1,3-Dichloropropane	**<0.018**	mg/kg	0.34	0.018	50		07/18/24 13:44	142-28-9	
2,2-Dichloropropane	**<0.11**	mg/kg	0.34	0.11	50		07/18/24 13:44	594-20-7	
1,1-Dichloropropene	**<0.018**	mg/kg	0.34	0.018	50		07/18/24 13:44	563-58-6	
cis-1,3-Dichloropropene	**<0.059**	mg/kg	0.34	0.059	50		07/18/24 13:44	10061-01-5	
trans-1,3-Dichloropropene	**<0.077**	mg/kg	0.34	0.077	50		07/18/24 13:44	10061-02-6	
Ethylbenzene	**<0.017**	mg/kg	0.34	0.017	50		07/18/24 13:44	100-41-4	
Ethyl methacrylate	**<0.20**	mg/kg	6.7	0.20	50		07/18/24 13:44	97-63-2	
Hexachloro-1,3-butadiene	**<0.034**	mg/kg	0.34	0.034	50		07/18/24 13:44	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 6' **Lab ID: 50377912002** Collected: 07/10/24 07:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 4.661 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**0.41**	mg/kg	0.34	0.033	50		07/18/24 13:44	110-54-3	
2-Hexanone	**<0.15**	mg/kg	6.7	0.15	50		07/18/24 13:44	591-78-6	
Iodomethane	**<0.18**	mg/kg	6.7	0.18	50		07/18/24 13:44	74-88-4	
Isopropylbenzene (Cumene)	**0.35**	mg/kg	0.34	0.016	50		07/18/24 13:44	98-82-8	
p-Isopropyltoluene	**0.070J**	mg/kg	0.34	0.021	50		07/18/24 13:44	99-87-6	
Methylene Chloride	**<0.83**	mg/kg	1.3	0.83	50		07/18/24 13:44	75-09-2	
1-Methylnaphthalene	**1.4**	mg/kg	0.67	0.019	50		07/18/24 13:44	90-12-0	
2-Methylnaphthalene	**2.2**	mg/kg	0.67	0.19	50		07/18/24 13:44	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.18**	mg/kg	1.7	0.18	50		07/18/24 13:44	108-10-1	
Methyl-tert-butyl ether	**<0.017**	mg/kg	0.34	0.017	50		07/18/24 13:44	1634-04-4	
Naphthalene	**<0.13**	mg/kg	0.34	0.13	50		07/18/24 13:44	91-20-3	
n-Propylbenzene	**1.0**	mg/kg	0.34	0.014	50		07/18/24 13:44	103-65-1	
Styrene	**<0.016**	mg/kg	0.34	0.016	50		07/18/24 13:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.018**	mg/kg	0.34	0.018	50		07/18/24 13:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.037**	mg/kg	0.34	0.037	50		07/18/24 13:44	79-34-5	
Tetrachloroethene	**<0.021**	mg/kg	0.34	0.021	50		07/18/24 13:44	127-18-4	
Toluene	**<0.031**	mg/kg	0.34	0.031	50		07/18/24 13:44	108-88-3	
1,2,3-Trichlorobenzene	**<0.059**	mg/kg	0.34	0.059	50		07/18/24 13:44	87-61-6	
1,2,4-Trichlorobenzene	**<0.052**	mg/kg	0.34	0.052	50		07/18/24 13:44	120-82-1	
1,1,1-Trichloroethane	**<0.024**	mg/kg	0.34	0.024	50		07/18/24 13:44	71-55-6	
1,1,2-Trichloroethane	**<0.062**	mg/kg	0.34	0.062	50		07/18/24 13:44	79-00-5	
Trichloroethene	**<0.026**	mg/kg	0.34	0.026	50		07/18/24 13:44	79-01-6	
Trichlorofluoromethane	**<0.027**	mg/kg	0.34	0.027	50		07/18/24 13:44	75-69-4	
1,2,3-Trichloropropane	**<0.086**	mg/kg	0.34	0.086	50		07/18/24 13:44	96-18-4	
1,2,4-Trimethylbenzene	**<0.047**	mg/kg	0.34	0.047	50		07/18/24 13:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.018**	mg/kg	0.34	0.018	50		07/18/24 13:44	108-67-8	
Vinyl acetate	**<0.080**	mg/kg	6.7	0.080	50		07/18/24 13:44	108-05-4	
Vinyl chloride	**<0.073**	mg/kg	0.34	0.073	50		07/18/24 13:44	75-01-4	
Xylene (Total)	**<0.15**	mg/kg	0.67	0.15	50		07/18/24 13:44	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	90	%.	75-135		50		07/18/24 13:44	1868-53-7	
Toluene-d8 (S)	113	%.	65-148		50		07/18/24 13:44	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	63-132		50		07/18/24 13:44	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**20.5**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 12' **Lab ID: 50377912003** Collected: 07/10/24 07:55 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 6.362 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.0052**	mg/kg	0.095	0.0052	1		07/18/24 14:15	67-64-1	
Acrolein	**<0.016**	mg/kg	0.095	0.016	1		07/18/24 14:15	107-02-8	
Acrylonitrile	**<0.0016**	mg/kg	0.095	0.0016	1		07/18/24 14:15	107-13-1	
Benzene	**0.14**	mg/kg	0.0048	0.00016	1		07/18/24 14:15	71-43-2	
Bromobenzene	**<0.00028**	mg/kg	0.0048	0.00028	1		07/18/24 14:15	108-86-1	
Bromochloromethane	**<0.00033**	mg/kg	0.0048	0.00033	1		07/18/24 14:15	74-97-5	
Bromodichloromethane	**<0.00029**	mg/kg	0.0048	0.00029	1		07/18/24 14:15	75-27-4	
Bromoform	**<0.0018**	mg/kg	0.0048	0.0018	1		07/18/24 14:15	75-25-2	
Bromomethane	**<0.00090**	mg/kg	0.0048	0.00090	1		07/18/24 14:15	74-83-9	
2-Butanone (MEK)	**<0.0099**	mg/kg	0.024	0.0099	1		07/18/24 14:15	78-93-3	
n-Butylbenzene	**0.0044J**	mg/kg	0.0048	0.00036	1		07/18/24 14:15	104-51-8	
sec-Butylbenzene	**0.0046J**	mg/kg	0.0048	0.00024	1		07/18/24 14:15	135-98-8	
tert-Butylbenzene	**0.00042J**	mg/kg	0.0048	0.00018	1		07/18/24 14:15	98-06-6	
Carbon disulfide	**<0.00083**	mg/kg	0.0095	0.00083	1		07/18/24 14:15	75-15-0	
Carbon tetrachloride	**<0.0013**	mg/kg	0.0048	0.0013	1		07/18/24 14:15	56-23-5	
Chlorobenzene	**<0.00020**	mg/kg	0.0048	0.00020	1		07/18/24 14:15	108-90-7	
Chloroethane	**<0.00087**	mg/kg	0.0048	0.00087	1		07/18/24 14:15	75-00-3	
Chloroform	**<0.0026**	mg/kg	0.0048	0.0026	1		07/18/24 14:15	67-66-3	
Chloromethane	**<0.00041**	mg/kg	0.0048	0.00041	1		07/18/24 14:15	74-87-3	
2-Chlorotoluene	**<0.00022**	mg/kg	0.0048	0.00022	1		07/18/24 14:15	95-49-8	
4-Chlorotoluene	**<0.00020**	mg/kg	0.0048	0.00020	1		07/18/24 14:15	106-43-4	
Dibromochloromethane	**<0.00034**	mg/kg	0.0048	0.00034	1		07/18/24 14:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00038**	mg/kg	0.0048	0.00038	1		07/18/24 14:15	106-93-4	
Dibromomethane	**<0.0010**	mg/kg	0.0048	0.0010	1		07/18/24 14:15	74-95-3	
1,2-Dichlorobenzene	**<0.00028**	mg/kg	0.0048	0.00028	1		07/18/24 14:15	95-50-1	
1,3-Dichlorobenzene	**<0.00027**	mg/kg	0.0048	0.00027	1		07/18/24 14:15	541-73-1	
1,4-Dichlorobenzene	**<0.00028**	mg/kg	0.0048	0.00028	1		07/18/24 14:15	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.0024**	mg/kg	0.095	0.0024	1		07/18/24 14:15	110-57-6	
Dichlorodifluoromethane	**<0.00035**	mg/kg	0.0048	0.00035	1		07/18/24 14:15	75-71-8	
1,1-Dichloroethane	**<0.00022**	mg/kg	0.0048	0.00022	1		07/18/24 14:15	75-34-3	
1,2-Dichloroethane	**<0.00024**	mg/kg	0.0048	0.00024	1		07/18/24 14:15	107-06-2	
1,1-Dichloroethene	**<0.00039**	mg/kg	0.0048	0.00039	1		07/18/24 14:15	75-35-4	
cis-1,2-Dichloroethene	**<0.00032**	mg/kg	0.0048	0.00032	1		07/18/24 14:15	156-59-2	
trans-1,2-Dichloroethene	**<0.00044**	mg/kg	0.0048	0.00044	1		07/18/24 14:15	156-60-5	
1,2-Dichloropropane	**<0.00037**	mg/kg	0.0048	0.00037	1		07/18/24 14:15	78-87-5	
1,3-Dichloropropane	**<0.00025**	mg/kg	0.0048	0.00025	1		07/18/24 14:15	142-28-9	
2,2-Dichloropropane	**<0.0016**	mg/kg	0.0048	0.0016	1		07/18/24 14:15	594-20-7	
1,1-Dichloropropene	**<0.00025**	mg/kg	0.0048	0.00025	1		07/18/24 14:15	563-58-6	
cis-1,3-Dichloropropene	**<0.00084**	mg/kg	0.0048	0.00084	1		07/18/24 14:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.0011**	mg/kg	0.0048	0.0011	1		07/18/24 14:15	10061-02-6	
Ethylbenzene	**0.0010J**	mg/kg	0.0048	0.00024	1		07/18/24 14:15	100-41-4	
Ethyl methacrylate	**<0.0029**	mg/kg	0.095	0.0029	1		07/18/24 14:15	97-63-2	
Hexachloro-1,3-butadiene	**<0.00048**	mg/kg	0.0048	0.00048	1		07/18/24 14:15	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 12' **Lab ID: 50377912003** Collected: 07/10/24 07:55 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 6.362 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**0.12**	mg/kg	0.0048	0.00047	1		07/18/24 14:15	110-54-3	
2-Hexanone	**<0.0021**	mg/kg	0.095	0.0021	1		07/18/24 14:15	591-78-6	
Iodomethane	**<0.0025**	mg/kg	0.095	0.0025	1		07/18/24 14:15	74-88-4	
Isopropylbenzene (Cumene)	**0.0071**	mg/kg	0.0048	0.00023	1		07/18/24 14:15	98-82-8	
p-Isopropyltoluene	**0.0016J**	mg/kg	0.0048	0.00030	1		07/18/24 14:15	99-87-6	
Methylene Chloride	**<0.012**	mg/kg	0.019	0.012	1		07/18/24 14:15	75-09-2	
1-Methylnaphthalene	**0.019**	mg/kg	0.0095	0.00026	1		07/18/24 14:15	90-12-0	
2-Methylnaphthalene	**0.021**	mg/kg	0.0095	0.0026	1		07/18/24 14:15	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.0025**	mg/kg	0.024	0.0025	1		07/18/24 14:15	108-10-1	
Methyl-tert-butyl ether	**<0.00025**	mg/kg	0.0048	0.00025	1		07/18/24 14:15	1634-04-4	
Naphthalene	**<0.0018**	mg/kg	0.0048	0.0018	1		07/18/24 14:15	91-20-3	
n-Propylbenzene	**0.0090**	mg/kg	0.0048	0.00020	1		07/18/24 14:15	103-65-1	
Styrene	**<0.00022**	mg/kg	0.0048	0.00022	1		07/18/24 14:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.00026**	mg/kg	0.0048	0.00026	1		07/18/24 14:15	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00053**	mg/kg	0.0048	0.00053	1		07/18/24 14:15	79-34-5	
Tetrachloroethene	**<0.00030**	mg/kg	0.0048	0.00030	1		07/18/24 14:15	127-18-4	
Toluene	**0.0050**	mg/kg	0.0048	0.00044	1		07/18/24 14:15	108-88-3	
1,2,3-Trichlorobenzene	**<0.00083**	mg/kg	0.0048	0.00083	1		07/18/24 14:15	87-61-6	
1,2,4-Trichlorobenzene	**<0.00073**	mg/kg	0.0048	0.00073	1		07/18/24 14:15	120-82-1	
1,1,1-Trichloroethane	**<0.00033**	mg/kg	0.0048	0.00033	1		07/18/24 14:15	71-55-6	
1,1,2-Trichloroethane	**<0.00088**	mg/kg	0.0048	0.00088	1		07/18/24 14:15	79-00-5	
Trichloroethene	**<0.00037**	mg/kg	0.0048	0.00037	1		07/18/24 14:15	79-01-6	
Trichlorofluoromethane	**<0.00038**	mg/kg	0.0048	0.00038	1		07/18/24 14:15	75-69-4	
1,2,3-Trichloropropane	**<0.0012**	mg/kg	0.0048	0.0012	1		07/18/24 14:15	96-18-4	
1,2,4-Trimethylbenzene	**0.0012J**	mg/kg	0.0048	0.00067	1		07/18/24 14:15	95-63-6	
1,3,5-Trimethylbenzene	**0.00089J**	mg/kg	0.0048	0.00025	1		07/18/24 14:15	108-67-8	
Vinyl acetate	**<0.0011**	mg/kg	0.095	0.0011	1		07/18/24 14:15	108-05-4	
Vinyl chloride	**<0.0010**	mg/kg	0.0048	0.0010	1		07/18/24 14:15	75-01-4	
Xylene (Total)	**0.018**	mg/kg	0.0095	0.0021	1		07/18/24 14:15	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	89	%.	75-135		1		07/18/24 14:15	1868-53-7	
Toluene-d8 (S)	104	%.	65-148		1		07/18/24 14:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	63-132		1		07/18/24 14:15	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**17.4**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 10.5' **Lab ID: 50377912004** Collected: 07/10/24 08:15 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 6.618 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.26**	mg/kg	4.8	0.26	50		07/18/24 14:45	67-64-1	
Acrolein	**<0.78**	mg/kg	4.8	0.78	50		07/18/24 14:45	107-02-8	
Acrylonitrile	**<0.081**	mg/kg	4.8	0.081	50		07/18/24 14:45	107-13-1	
Benzene	**<0.0082**	mg/kg	0.24	0.0082	50		07/18/24 14:45	71-43-2	
Bromobenzene	**<0.014**	mg/kg	0.24	0.014	50		07/18/24 14:45	108-86-1	
Bromochloromethane	**<0.017**	mg/kg	0.24	0.017	50		07/18/24 14:45	74-97-5	
Bromodichloromethane	**<0.015**	mg/kg	0.24	0.015	50		07/18/24 14:45	75-27-4	
Bromoform	**<0.088**	mg/kg	0.24	0.088	50		07/18/24 14:45	75-25-2	
Bromomethane	**<0.045**	mg/kg	0.24	0.045	50		07/18/24 14:45	74-83-9	
2-Butanone (MEK)	**<0.50**	mg/kg	1.2	0.50	50		07/18/24 14:45	78-93-3	
n-Butylbenzene	**0.62**	mg/kg	0.24	0.018	50		07/18/24 14:45	104-51-8	
sec-Butylbenzene	**0.50**	mg/kg	0.24	0.012	50		07/18/24 14:45	135-98-8	
tert-Butylbenzene	**0.030J**	mg/kg	0.24	0.0092	50		07/18/24 14:45	98-06-6	
Carbon disulfide	**<0.042**	mg/kg	0.48	0.042	50		07/18/24 14:45	75-15-0	
Carbon tetrachloride	**<0.067**	mg/kg	0.24	0.067	50		07/18/24 14:45	56-23-5	
Chlorobenzene	**<0.0099**	mg/kg	0.24	0.0099	50		07/18/24 14:45	108-90-7	
Chloroethane	**<0.044**	mg/kg	0.24	0.044	50		07/18/24 14:45	75-00-3	
Chloroform	**<0.13**	mg/kg	0.24	0.13	50		07/18/24 14:45	67-66-3	
Chloromethane	**<0.020**	mg/kg	0.24	0.020	50		07/18/24 14:45	74-87-3	
2-Chlorotoluene	**<0.011**	mg/kg	0.24	0.011	50		07/18/24 14:45	95-49-8	
4-Chlorotoluene	**<0.010**	mg/kg	0.24	0.010	50		07/18/24 14:45	106-43-4	
Dibromochloromethane	**<0.017**	mg/kg	0.24	0.017	50		07/18/24 14:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.019**	mg/kg	0.24	0.019	50		07/18/24 14:45	106-93-4	
Dibromomethane	**<0.053**	mg/kg	0.24	0.053	50		07/18/24 14:45	74-95-3	
1,2-Dichlorobenzene	**<0.014**	mg/kg	0.24	0.014	50		07/18/24 14:45	95-50-1	
1,3-Dichlorobenzene	**<0.013**	mg/kg	0.24	0.013	50		07/18/24 14:45	541-73-1	
1,4-Dichlorobenzene	**<0.014**	mg/kg	0.24	0.014	50		07/18/24 14:45	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.12**	mg/kg	4.8	0.12	50		07/18/24 14:45	110-57-6	
Dichlorodifluoromethane	**<0.018**	mg/kg	0.24	0.018	50		07/18/24 14:45	75-71-8	
1,1-Dichloroethane	**<0.011**	mg/kg	0.24	0.011	50		07/18/24 14:45	75-34-3	
1,2-Dichloroethane	**<0.012**	mg/kg	0.24	0.012	50		07/18/24 14:45	107-06-2	
1,1-Dichloroethene	**<0.019**	mg/kg	0.24	0.019	50		07/18/24 14:45	75-35-4	
cis-1,2-Dichloroethene	**<0.016**	mg/kg	0.24	0.016	50		07/18/24 14:45	156-59-2	
trans-1,2-Dichloroethene	**<0.022**	mg/kg	0.24	0.022	50		07/18/24 14:45	156-60-5	
1,2-Dichloropropane	**<0.018**	mg/kg	0.24	0.018	50		07/18/24 14:45	78-87-5	
1,3-Dichloropropane	**<0.013**	mg/kg	0.24	0.013	50		07/18/24 14:45	142-28-9	
2,2-Dichloropropane	**<0.080**	mg/kg	0.24	0.080	50		07/18/24 14:45	594-20-7	
1,1-Dichloropropene	**<0.013**	mg/kg	0.24	0.013	50		07/18/24 14:45	563-58-6	
cis-1,3-Dichloropropene	**<0.042**	mg/kg	0.24	0.042	50		07/18/24 14:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.054**	mg/kg	0.24	0.054	50		07/18/24 14:45	10061-02-6	
Ethylbenzene	**0.17J**	mg/kg	0.24	0.012	50		07/18/24 14:45	100-41-4	
Ethyl methacrylate	**<0.15**	mg/kg	4.8	0.15	50		07/18/24 14:45	97-63-2	
Hexachloro-1,3-butadiene	**<0.024**	mg/kg	0.24	0.024	50		07/18/24 14:45	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 10.5' **Lab ID: 50377912004** Collected: 07/10/24 08:15 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 6.618 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**11.6**	mg/kg	0.24	0.024	50		07/18/24 14:45	110-54-3	
2-Hexanone	**<0.10**	mg/kg	4.8	0.10	50		07/18/24 14:45	591-78-6	
Iodomethane	**<0.12**	mg/kg	4.8	0.12	50		07/18/24 14:45	74-88-4	
Isopropylbenzene (Cumene)	**0.83**	mg/kg	0.24	0.011	50		07/18/24 14:45	98-82-8	
p-Isopropyltoluene	**0.27**	mg/kg	0.24	0.015	50		07/18/24 14:45	99-87-6	
Methylene Chloride	**<0.59**	mg/kg	0.95	0.59	50		07/18/24 14:45	75-09-2	
1-Methylnaphthalene	**0.86**	mg/kg	0.48	0.013	50		07/18/24 14:45	90-12-0	
2-Methylnaphthalene	**1.5**	mg/kg	0.48	0.13	50		07/18/24 14:45	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.12**	mg/kg	1.2	0.12	50		07/18/24 14:45	108-10-1	
Methyl-tert-butyl ether	**<0.012**	mg/kg	0.24	0.012	50		07/18/24 14:45	1634-04-4	
Naphthalene	**<0.091**	mg/kg	0.24	0.091	50		07/18/24 14:45	91-20-3	
n-Propylbenzene	**1.4**	mg/kg	0.24	0.0099	50		07/18/24 14:45	103-65-1	
Styrene	**<0.011**	mg/kg	0.24	0.011	50		07/18/24 14:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.013**	mg/kg	0.24	0.013	50		07/18/24 14:45	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.027**	mg/kg	0.24	0.027	50		07/18/24 14:45	79-34-5	
Tetrachloroethene	**<0.015**	mg/kg	0.24	0.015	50		07/18/24 14:45	127-18-4	
Toluene	**<0.022**	mg/kg	0.24	0.022	50		07/18/24 14:45	108-88-3	
1,2,3-Trichlorobenzene	**<0.042**	mg/kg	0.24	0.042	50		07/18/24 14:45	87-61-6	
1,2,4-Trichlorobenzene	**<0.037**	mg/kg	0.24	0.037	50		07/18/24 14:45	120-82-1	
1,1,1-Trichloroethane	**<0.017**	mg/kg	0.24	0.017	50		07/18/24 14:45	71-55-6	
1,1,2-Trichloroethane	**<0.044**	mg/kg	0.24	0.044	50		07/18/24 14:45	79-00-5	
Trichloroethene	**<0.019**	mg/kg	0.24	0.019	50		07/18/24 14:45	79-01-6	
Trichlorofluoromethane	**<0.019**	mg/kg	0.24	0.019	50		07/18/24 14:45	75-69-4	
1,2,3-Trichloropropane	**<0.061**	mg/kg	0.24	0.061	50		07/18/24 14:45	96-18-4	
1,2,4-Trimethylbenzene	**<0.033**	mg/kg	0.24	0.033	50		07/18/24 14:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.012**	mg/kg	0.24	0.012	50		07/18/24 14:45	108-67-8	
Vinyl acetate	**<0.057**	mg/kg	4.8	0.057	50		07/18/24 14:45	108-05-4	
Vinyl chloride	**<0.052**	mg/kg	0.24	0.052	50		07/18/24 14:45	75-01-4	
Xylene (Total)	**0.14J**	mg/kg	0.48	0.11	50		07/18/24 14:45	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	93	%.	75-135		50		07/18/24 14:45	1868-53-7	
Toluene-d8 (S)	121	%.	65-148		50		07/18/24 14:45	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	63-132		50		07/18/24 14:45	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**20.9**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-6 11' **Lab ID: 50377912005** Collected: 07/10/24 08:30 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 4.378 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<1.2**	mg/kg	8.2	1.2	50		07/19/24 16:54	67-64-1	
Acrolein	**<1.5**	mg/kg	8.2	1.5	50		07/19/24 16:54	107-02-8	
Acrylonitrile	**<0.15**	mg/kg	8.2	0.15	50		07/19/24 16:54	107-13-1	
Benzene	**<0.020**	mg/kg	0.41	0.020	50		07/19/24 16:54	71-43-2	
Bromobenzene	**<0.030**	mg/kg	0.41	0.030	50		07/19/24 16:54	108-86-1	
Bromochloromethane	**<0.033**	mg/kg	0.41	0.033	50		07/19/24 16:54	74-97-5	
Bromodichloromethane	**<0.031**	mg/kg	0.41	0.031	50		07/19/24 16:54	75-27-4	
Bromoform	**<0.033**	mg/kg	0.41	0.033	50		07/19/24 16:54	75-25-2	
Bromomethane	**<0.039**	mg/kg	0.41	0.039	50		07/19/24 16:54	74-83-9	
2-Butanone (MEK)	**<0.58**	mg/kg	2.1	0.58	50		07/19/24 16:54	78-93-3	
n-Butylbenzene	**<0.029**	mg/kg	0.41	0.029	50		07/19/24 16:54	104-51-8	
sec-Butylbenzene	**0.46**	mg/kg	0.41	0.023	50		07/19/24 16:54	135-98-8	
tert-Butylbenzene	**0.12J**	mg/kg	0.41	0.021	50		07/19/24 16:54	98-06-6	
Carbon disulfide	**<0.054**	mg/kg	0.82	0.054	50		07/19/24 16:54	75-15-0	
Carbon tetrachloride	**<0.024**	mg/kg	0.41	0.024	50		07/19/24 16:54	56-23-5	
Chlorobenzene	**<0.021**	mg/kg	0.41	0.021	50		07/19/24 16:54	108-90-7	
Chloroethane	**<0.057**	mg/kg	0.41	0.057	50		07/19/24 16:54	75-00-3	
Chloroform	**<0.18**	mg/kg	0.41	0.18	50		07/19/24 16:54	67-66-3	
Chloromethane	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	74-87-3	
2-Chlorotoluene	**<0.025**	mg/kg	0.41	0.025	50		07/19/24 16:54	95-49-8	
4-Chlorotoluene	**<0.028**	mg/kg	0.41	0.028	50		07/19/24 16:54	106-43-4	
Dibromochloromethane	**<0.032**	mg/kg	0.41	0.032	50		07/19/24 16:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.054**	mg/kg	0.41	0.054	50		07/19/24 16:54	106-93-4	
Dibromomethane	**<0.049**	mg/kg	0.41	0.049	50		07/19/24 16:54	74-95-3	
1,2-Dichlorobenzene	**<0.026**	mg/kg	0.41	0.026	50		07/19/24 16:54	95-50-1	
1,3-Dichlorobenzene	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	541-73-1	
1,4-Dichlorobenzene	**<0.028**	mg/kg	0.41	0.028	50		07/19/24 16:54	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.18**	mg/kg	8.2	0.18	50		07/19/24 16:54	110-57-6	
Dichlorodifluoromethane	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	75-71-8	
1,1-Dichloroethane	**<0.018**	mg/kg	0.41	0.018	50		07/19/24 16:54	75-34-3	
1,2-Dichloroethane	**<0.021**	mg/kg	0.41	0.021	50		07/19/24 16:54	107-06-2	
1,1-Dichloroethene	**<0.031**	mg/kg	0.41	0.031	50		07/19/24 16:54	75-35-4	
cis-1,2-Dichloroethene	**<0.028**	mg/kg	0.41	0.028	50		07/19/24 16:54	156-59-2	
trans-1,2-Dichloroethene	**<0.042**	mg/kg	0.41	0.042	50		07/19/24 16:54	156-60-5	
1,2-Dichloropropane	**<0.038**	mg/kg	0.41	0.038	50		07/19/24 16:54	78-87-5	
1,3-Dichloropropane	**<0.024**	mg/kg	0.41	0.024	50		07/19/24 16:54	142-28-9	
2,2-Dichloropropane	**<0.14**	mg/kg	0.41	0.14	50		07/19/24 16:54	594-20-7	
1,1-Dichloropropene	**<0.020**	mg/kg	0.41	0.020	50		07/19/24 16:54	563-58-6	
cis-1,3-Dichloropropene	**<0.022**	mg/kg	0.41	0.022	50		07/19/24 16:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.086**	mg/kg	0.41	0.086	50		07/19/24 16:54	10061-02-6	
Ethylbenzene	**<0.020**	mg/kg	0.41	0.020	50		07/19/24 16:54	100-41-4	
Ethyl methacrylate	**<0.23**	mg/kg	8.2	0.23	50		07/19/24 16:54	97-63-2	
Hexachloro-1,3-butadiene	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-6 11' **Lab ID: 50377912005** Collected: 07/10/24 08:30 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 4.378 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**<0.045**	mg/kg	0.41	0.045	50		07/19/24 16:54	110-54-3	
2-Hexanone	**<0.19**	mg/kg	8.2	0.19	50		07/19/24 16:54	591-78-6	
Iodomethane	**<0.039**	mg/kg	8.2	0.039	50		07/19/24 16:54	74-88-4	
Isopropylbenzene (Cumene)	**<0.026**	mg/kg	0.41	0.026	50		07/19/24 16:54	98-82-8	
p-Isopropyltoluene	**<0.025**	mg/kg	0.41	0.025	50		07/19/24 16:54	99-87-6	
Methylene Chloride	**<0.95**	mg/kg	1.6	0.95	50		07/19/24 16:54	75-09-2	
1-Methylnaphthalene	**<0.17**	mg/kg	0.82	0.17	50		07/19/24 16:54	90-12-0	
2-Methylnaphthalene	**<0.17**	mg/kg	0.82	0.17	50		07/19/24 16:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.14**	mg/kg	2.1	0.14	50		07/19/24 16:54	108-10-1	
Methyl-tert-butyl ether	**<0.020**	mg/kg	0.41	0.020	50		07/19/24 16:54	1634-04-4	
Naphthalene	**<0.072**	mg/kg	0.41	0.072	50		07/19/24 16:54	91-20-3	
n-Propylbenzene	**<0.023**	mg/kg	0.41	0.023	50		07/19/24 16:54	103-65-1	
Styrene	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.027**	mg/kg	0.41	0.027	50		07/19/24 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.055**	mg/kg	0.41	0.055	50		07/19/24 16:54	79-34-5	
Tetrachloroethene	**<0.023**	mg/kg	0.41	0.023	50		07/19/24 16:54	127-18-4	
Toluene	**<0.11**	mg/kg	0.41	0.11	50		07/19/24 16:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.049**	mg/kg	0.41	0.049	50		07/19/24 16:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.045**	mg/kg	0.41	0.045	50		07/19/24 16:54	120-82-1	
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.41	0.025	50		07/19/24 16:54	71-55-6	
1,1,2-Trichloroethane	**<0.057**	mg/kg	0.41	0.057	50		07/19/24 16:54	79-00-5	
Trichloroethene	**<0.044**	mg/kg	0.41	0.044	50		07/19/24 16:54	79-01-6	
Trichlorofluoromethane	**<0.029**	mg/kg	0.41	0.029	50		07/19/24 16:54	75-69-4	
1,2,3-Trichloropropane	**<0.14**	mg/kg	0.41	0.14	50		07/19/24 16:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.021**	mg/kg	0.41	0.021	50		07/19/24 16:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.023**	mg/kg	0.41	0.023	50		07/19/24 16:54	108-67-8	
Vinyl acetate	**<0.085**	mg/kg	8.2	0.085	50		07/19/24 16:54	108-05-4	
Vinyl chloride	**<0.021**	mg/kg	0.41	0.021	50		07/19/24 16:54	75-01-4	
Xylene (Total)	**<0.055**	mg/kg	0.82	0.055	50		07/19/24 16:54	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95	%.	75-135		50		07/19/24 16:54	1868-53-7	D3
Toluene-d8 (S)	102	%.	65-148		50		07/19/24 16:54	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	63-132		50		07/19/24 16:54	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**30.6**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 7' **Lab ID: 50377912006** Collected: 07/10/24 08:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 6.076 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.56**	mg/kg	10.2	0.56	100		07/18/24 15:46	67-64-1	
Acrolein	**<1.7**	mg/kg	10.2	1.7	100		07/18/24 15:46	107-02-8	
Acrylonitrile	**<0.17**	mg/kg	10.2	0.17	100		07/18/24 15:46	107-13-1	
Benzene	**<0.018**	mg/kg	0.51	0.018	100		07/18/24 15:46	71-43-2	
Bromobenzene	**<0.030**	mg/kg	0.51	0.030	100		07/18/24 15:46	108-86-1	
Bromochloromethane	**<0.036**	mg/kg	0.51	0.036	100		07/18/24 15:46	74-97-5	
Bromodichloromethane	**<0.031**	mg/kg	0.51	0.031	100		07/18/24 15:46	75-27-4	
Bromoform	**<0.19**	mg/kg	0.51	0.19	100		07/18/24 15:46	75-25-2	
Bromomethane	**<0.096**	mg/kg	0.51	0.096	100		07/18/24 15:46	74-83-9	
2-Butanone (MEK)	**<1.1**	mg/kg	2.6	1.1	100		07/18/24 15:46	78-93-3	
n-Butylbenzene	**0.99**	mg/kg	0.51	0.039	100		07/18/24 15:46	104-51-8	
sec-Butylbenzene	**1.6**	mg/kg	0.51	0.026	100		07/18/24 15:46	135-98-8	
tert-Butylbenzene	**0.080J**	mg/kg	0.51	0.020	100		07/18/24 15:46	98-06-6	
Carbon disulfide	**<0.089**	mg/kg	1.0	0.089	100		07/18/24 15:46	75-15-0	
Carbon tetrachloride	**<0.14**	mg/kg	0.51	0.14	100		07/18/24 15:46	56-23-5	
Chlorobenzene	**<0.021**	mg/kg	0.51	0.021	100		07/18/24 15:46	108-90-7	
Chloroethane	**<0.094**	mg/kg	0.51	0.094	100		07/18/24 15:46	75-00-3	
Chloroform	**<0.28**	mg/kg	0.51	0.28	100		07/18/24 15:46	67-66-3	
Chloromethane	**<0.044**	mg/kg	0.51	0.044	100		07/18/24 15:46	74-87-3	
2-Chlorotoluene	**<0.023**	mg/kg	0.51	0.023	100		07/18/24 15:46	95-49-8	
4-Chlorotoluene	**<0.022**	mg/kg	0.51	0.022	100		07/18/24 15:46	106-43-4	
Dibromochloromethane	**<0.037**	mg/kg	0.51	0.037	100		07/18/24 15:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.041**	mg/kg	0.51	0.041	100		07/18/24 15:46	106-93-4	
Dibromomethane	**<0.11**	mg/kg	0.51	0.11	100		07/18/24 15:46	74-95-3	
1,2-Dichlorobenzene	**<0.030**	mg/kg	0.51	0.030	100		07/18/24 15:46	95-50-1	
1,3-Dichlorobenzene	**<0.029**	mg/kg	0.51	0.029	100		07/18/24 15:46	541-73-1	
1,4-Dichlorobenzene	**<0.031**	mg/kg	0.51	0.031	100		07/18/24 15:46	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.26**	mg/kg	10.2	0.26	100		07/18/24 15:46	110-57-6	
Dichlorodifluoromethane	**<0.038**	mg/kg	0.51	0.038	100		07/18/24 15:46	75-71-8	
1,1-Dichloroethane	**<0.023**	mg/kg	0.51	0.023	100		07/18/24 15:46	75-34-3	
1,2-Dichloroethane	**<0.026**	mg/kg	0.51	0.026	100		07/18/24 15:46	107-06-2	
1,1-Dichloroethene	**<0.041**	mg/kg	0.51	0.041	100		07/18/24 15:46	75-35-4	
cis-1,2-Dichloroethene	**<0.034**	mg/kg	0.51	0.034	100		07/18/24 15:46	156-59-2	
trans-1,2-Dichloroethene	**<0.047**	mg/kg	0.51	0.047	100		07/18/24 15:46	156-60-5	
1,2-Dichloropropane	**<0.040**	mg/kg	0.51	0.040	100		07/18/24 15:46	78-87-5	
1,3-Dichloropropane	**<0.027**	mg/kg	0.51	0.027	100		07/18/24 15:46	142-28-9	
2,2-Dichloropropane	**<0.17**	mg/kg	0.51	0.17	100		07/18/24 15:46	594-20-7	
1,1-Dichloropropene	**<0.027**	mg/kg	0.51	0.027	100		07/18/24 15:46	563-58-6	
cis-1,3-Dichloropropene	**<0.090**	mg/kg	0.51	0.090	100		07/18/24 15:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.12**	mg/kg	0.51	0.12	100		07/18/24 15:46	10061-02-6	
Ethylbenzene	**<0.026**	mg/kg	0.51	0.026	100		07/18/24 15:46	100-41-4	
Ethyl methacrylate	**<0.31**	mg/kg	10.2	0.31	100		07/18/24 15:46	97-63-2	
Hexachloro-1,3-butadiene	**<0.051**	mg/kg	0.51	0.051	100		07/18/24 15:46	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 7' **Lab ID: 50377912006** Collected: 07/10/24 08:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 6.076 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**1.9**	mg/kg	0.51	0.050	100		07/18/24 15:46	110-54-3	
2-Hexanone	**<0.22**	mg/kg	10.2	0.22	100		07/18/24 15:46	591-78-6	
Iodomethane	**<0.27**	mg/kg	10.2	0.27	100		07/18/24 15:46	74-88-4	
Isopropylbenzene (Cumene)	**1.9**	mg/kg	0.51	0.024	100		07/18/24 15:46	98-82-8	
p-Isopropyltoluene	**0.26J**	mg/kg	0.51	0.032	100		07/18/24 15:46	99-87-6	
Methylene Chloride	**<1.3**	mg/kg	2.0	1.3	100		07/18/24 15:46	75-09-2	
1-Methylnaphthalene	**1.4**	mg/kg	1.0	0.028	100		07/18/24 15:46	90-12-0	
2-Methylnaphthalene	**1.7**	mg/kg	1.0	0.28	100		07/18/24 15:46	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.27**	mg/kg	2.6	0.27	100		07/18/24 15:46	108-10-1	
Methyl-tert-butyl ether	**<0.026**	mg/kg	0.51	0.026	100		07/18/24 15:46	1634-04-4	
Naphthalene	**<0.19**	mg/kg	0.51	0.19	100		07/18/24 15:46	91-20-3	
n-Propylbenzene	**3.0**	mg/kg	0.51	0.021	100		07/18/24 15:46	103-65-1	
Styrene	**<0.024**	mg/kg	0.51	0.024	100		07/18/24 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.027**	mg/kg	0.51	0.027	100		07/18/24 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.057**	mg/kg	0.51	0.057	100		07/18/24 15:46	79-34-5	
Tetrachloroethene	**<0.032**	mg/kg	0.51	0.032	100		07/18/24 15:46	127-18-4	
Toluene	**<0.047**	mg/kg	0.51	0.047	100		07/18/24 15:46	108-88-3	
1,2,3-Trichlorobenzene	**<0.089**	mg/kg	0.51	0.089	100		07/18/24 15:46	87-61-6	
1,2,4-Trichlorobenzene	**<0.079**	mg/kg	0.51	0.079	100		07/18/24 15:46	120-82-1	
1,1,1-Trichloroethane	**<0.036**	mg/kg	0.51	0.036	100		07/18/24 15:46	71-55-6	
1,1,2-Trichloroethane	**<0.095**	mg/kg	0.51	0.095	100		07/18/24 15:46	79-00-5	
Trichloroethene	**<0.040**	mg/kg	0.51	0.040	100		07/18/24 15:46	79-01-6	
Trichlorofluoromethane	**<0.040**	mg/kg	0.51	0.040	100		07/18/24 15:46	75-69-4	
1,2,3-Trichloropropane	**<0.13**	mg/kg	0.51	0.13	100		07/18/24 15:46	96-18-4	
1,2,4-Trimethylbenzene	**<0.071**	mg/kg	0.51	0.071	100		07/18/24 15:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.027**	mg/kg	0.51	0.027	100		07/18/24 15:46	108-67-8	
Vinyl acetate	**<0.12**	mg/kg	10.2	0.12	100		07/18/24 15:46	108-05-4	
Vinyl chloride	**<0.11**	mg/kg	0.51	0.11	100		07/18/24 15:46	75-01-4	
Xylene (Total)	**<0.22**	mg/kg	1.0	0.22	100		07/18/24 15:46	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	91	%.	75-135		100		07/18/24 15:46	1868-53-7	
Toluene-d8 (S)	122	%.	65-148		100		07/18/24 15:46	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	63-132		100		07/18/24 15:46	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**19.4**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 7' DUP **Lab ID: 50377912007** Collected: 07/10/24 08:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5.245 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.32**	mg/kg	6.0	0.32	50		07/18/24 16:16	67-64-1	
Acrolein	**<0.98**	mg/kg	6.0	0.98	50		07/18/24 16:16	107-02-8	
Acrylonitrile	**<0.10**	mg/kg	6.0	0.10	50		07/18/24 16:16	107-13-1	
Benzene	**<0.010**	mg/kg	0.30	0.010	50		07/18/24 16:16	71-43-2	
Bromobenzene	**<0.018**	mg/kg	0.30	0.018	50		07/18/24 16:16	108-86-1	
Bromochloromethane	**<0.021**	mg/kg	0.30	0.021	50		07/18/24 16:16	74-97-5	
Bromodichloromethane	**<0.018**	mg/kg	0.30	0.018	50		07/18/24 16:16	75-27-4	
Bromoform	**<0.11**	mg/kg	0.30	0.11	50		07/18/24 16:16	75-25-2	
Bromomethane	**<0.056**	mg/kg	0.30	0.056	50		07/18/24 16:16	74-83-9	
2-Butanone (MEK)	**<0.62**	mg/kg	1.5	0.62	50		07/18/24 16:16	78-93-3	
n-Butylbenzene	**1.2**	mg/kg	0.30	0.023	50		07/18/24 16:16	104-51-8	
sec-Butylbenzene	**1.8**	mg/kg	0.30	0.015	50		07/18/24 16:16	135-98-8	
tert-Butylbenzene	**0.086J**	mg/kg	0.30	0.011	50		07/18/24 16:16	98-06-6	
Carbon disulfide	**<0.052**	mg/kg	0.60	0.052	50		07/18/24 16:16	75-15-0	
Carbon tetrachloride	**<0.084**	mg/kg	0.30	0.084	50		07/18/24 16:16	56-23-5	
Chlorobenzene	**<0.012**	mg/kg	0.30	0.012	50		07/18/24 16:16	108-90-7	
Chloroethane	**<0.055**	mg/kg	0.30	0.055	50		07/18/24 16:16	75-00-3	
Chloroform	**<0.16**	mg/kg	0.30	0.16	50		07/18/24 16:16	67-66-3	
Chloromethane	**<0.026**	mg/kg	0.30	0.026	50		07/18/24 16:16	74-87-3	
2-Chlorotoluene	**<0.014**	mg/kg	0.30	0.014	50		07/18/24 16:16	95-49-8	
4-Chlorotoluene	**<0.013**	mg/kg	0.30	0.013	50		07/18/24 16:16	106-43-4	
Dibromochloromethane	**<0.021**	mg/kg	0.30	0.021	50		07/18/24 16:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.024**	mg/kg	0.30	0.024	50		07/18/24 16:16	106-93-4	
Dibromomethane	**<0.066**	mg/kg	0.30	0.066	50		07/18/24 16:16	74-95-3	
1,2-Dichlorobenzene	**<0.017**	mg/kg	0.30	0.017	50		07/18/24 16:16	95-50-1	
1,3-Dichlorobenzene	**<0.017**	mg/kg	0.30	0.017	50		07/18/24 16:16	541-73-1	
1,4-Dichlorobenzene	**<0.018**	mg/kg	0.30	0.018	50		07/18/24 16:16	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.15**	mg/kg	6.0	0.15	50		07/18/24 16:16	110-57-6	
Dichlorodifluoromethane	**<0.022**	mg/kg	0.30	0.022	50		07/18/24 16:16	75-71-8	
1,1-Dichloroethane	**<0.013**	mg/kg	0.30	0.013	50		07/18/24 16:16	75-34-3	
1,2-Dichloroethane	**<0.015**	mg/kg	0.30	0.015	50		07/18/24 16:16	107-06-2	
1,1-Dichloroethene	**<0.024**	mg/kg	0.30	0.024	50		07/18/24 16:16	75-35-4	
cis-1,2-Dichloroethene	**<0.020**	mg/kg	0.30	0.020	50		07/18/24 16:16	156-59-2	
trans-1,2-Dichloroethene	**<0.027**	mg/kg	0.30	0.027	50		07/18/24 16:16	156-60-5	
1,2-Dichloropropane	**<0.023**	mg/kg	0.30	0.023	50		07/18/24 16:16	78-87-5	
1,3-Dichloropropane	**<0.016**	mg/kg	0.30	0.016	50		07/18/24 16:16	142-28-9	
2,2-Dichloropropane	**<0.10**	mg/kg	0.30	0.10	50		07/18/24 16:16	594-20-7	
1,1-Dichloropropene	**<0.016**	mg/kg	0.30	0.016	50		07/18/24 16:16	563-58-6	
cis-1,3-Dichloropropene	**<0.052**	mg/kg	0.30	0.052	50		07/18/24 16:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.068**	mg/kg	0.30	0.068	50		07/18/24 16:16	10061-02-6	
Ethylbenzene	**<0.015**	mg/kg	0.30	0.015	50		07/18/24 16:16	100-41-4	
Ethyl methacrylate	**<0.18**	mg/kg	6.0	0.18	50		07/18/24 16:16	97-63-2	
Hexachloro-1,3-butadiene	**<0.030**	mg/kg	0.30	0.030	50		07/18/24 16:16	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 7' DUP **Lab ID: 50377912007** Collected: 07/10/24 08:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 5.245 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**2.8**	mg/kg	0.30	0.029	50		07/18/24 16:16	110-54-3	
2-Hexanone	**<0.13**	mg/kg	6.0	0.13	50		07/18/24 16:16	591-78-6	
Iodomethane	**<0.16**	mg/kg	6.0	0.16	50		07/18/24 16:16	74-88-4	
Isopropylbenzene (Cumene)	**2.1**	mg/kg	0.30	0.014	50		07/18/24 16:16	98-82-8	
p-Isopropyltoluene	**0.31**	mg/kg	0.30	0.019	50		07/18/24 16:16	99-87-6	
Methylene Chloride	**<0.73**	mg/kg	1.2	0.73	50		07/18/24 16:16	75-09-2	
1-Methylnaphthalene	**1.4**	mg/kg	0.60	0.017	50		07/18/24 16:16	90-12-0	
2-Methylnaphthalene	**1.9**	mg/kg	0.60	0.17	50		07/18/24 16:16	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.16**	mg/kg	1.5	0.16	50		07/18/24 16:16	108-10-1	
Methyl-tert-butyl ether	**<0.015**	mg/kg	0.30	0.015	50		07/18/24 16:16	1634-04-4	
Naphthalene	**<0.11**	mg/kg	0.30	0.11	50		07/18/24 16:16	91-20-3	
n-Propylbenzene	**3.5**	mg/kg	0.30	0.012	50		07/18/24 16:16	103-65-1	
Styrene	**<0.014**	mg/kg	0.30	0.014	50		07/18/24 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.016**	mg/kg	0.30	0.016	50		07/18/24 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.033**	mg/kg	0.30	0.033	50		07/18/24 16:16	79-34-5	
Tetrachloroethene	**<0.019**	mg/kg	0.30	0.019	50		07/18/24 16:16	127-18-4	
Toluene	**<0.027**	mg/kg	0.30	0.027	50		07/18/24 16:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.052**	mg/kg	0.30	0.052	50		07/18/24 16:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.046**	mg/kg	0.30	0.046	50		07/18/24 16:16	120-82-1	
1,1,1-Trichloroethane	**<0.021**	mg/kg	0.30	0.021	50		07/18/24 16:16	71-55-6	
1,1,2-Trichloroethane	**<0.055**	mg/kg	0.30	0.055	50		07/18/24 16:16	79-00-5	
Trichloroethene	**<0.023**	mg/kg	0.30	0.023	50		07/18/24 16:16	79-01-6	
Trichlorofluoromethane	**<0.024**	mg/kg	0.30	0.024	50		07/18/24 16:16	75-69-4	
1,2,3-Trichloropropane	**<0.076**	mg/kg	0.30	0.076	50		07/18/24 16:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.042**	mg/kg	0.30	0.042	50		07/18/24 16:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.016**	mg/kg	0.30	0.016	50		07/18/24 16:16	108-67-8	
Vinyl acetate	**<0.071**	mg/kg	6.0	0.071	50		07/18/24 16:16	108-05-4	
Vinyl chloride	**<0.064**	mg/kg	0.30	0.064	50		07/18/24 16:16	75-01-4	
Xylene (Total)	**<0.13**	mg/kg	0.60	0.13	50		07/18/24 16:16	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	92	%.	75-135		50		07/18/24 16:16	1868-53-7	
Toluene-d8 (S)	140	%.	65-148		50		07/18/24 16:16	2037-26-5	
4-Bromofluorobenzene (S)	122	%.	63-132		50		07/18/24 16:16	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**20.2**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 7' **Lab ID: 50377912008** Collected: 07/10/24 09:25 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5.639 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<0.30**	mg/kg	5.5	0.30	50		07/19/24 01:23	67-64-1	
Acrolein	**<0.90**	mg/kg	5.5	0.90	50		07/19/24 01:23	107-02-8	
Acrylonitrile	**<0.093**	mg/kg	5.5	0.093	50		07/19/24 01:23	107-13-1	
Benzene	**<0.0094**	mg/kg	0.27	0.0094	50		07/19/24 01:23	71-43-2	
Bromobenzene	**<0.016**	mg/kg	0.27	0.016	50		07/19/24 01:23	108-86-1	
Bromochloromethane	**<0.019**	mg/kg	0.27	0.019	50		07/19/24 01:23	74-97-5	
Bromodichloromethane	**<0.017**	mg/kg	0.27	0.017	50		07/19/24 01:23	75-27-4	
Bromoform	**<0.10**	mg/kg	0.27	0.10	50		07/19/24 01:23	75-25-2	
Bromomethane	**<0.051**	mg/kg	0.27	0.051	50		07/19/24 01:23	74-83-9	
2-Butanone (MEK)	**<0.57**	mg/kg	1.4	0.57	50		07/19/24 01:23	78-93-3	
n-Butylbenzene	**1.6**	mg/kg	0.27	0.021	50		07/19/24 01:23	104-51-8	
sec-Butylbenzene	**1.2**	mg/kg	0.27	0.014	50		07/19/24 01:23	135-98-8	
tert-Butylbenzene	**0.069J**	mg/kg	0.27	0.010	50		07/19/24 01:23	98-06-6	
Carbon disulfide	**<0.048**	mg/kg	0.55	0.048	50		07/19/24 01:23	75-15-0	
Carbon tetrachloride	**<0.077**	mg/kg	0.27	0.077	50		07/19/24 01:23	56-23-5	
Chlorobenzene	**<0.011**	mg/kg	0.27	0.011	50		07/19/24 01:23	108-90-7	
Chloroethane	**<0.050**	mg/kg	0.27	0.050	50		07/19/24 01:23	75-00-3	
Chloroform	**<0.15**	mg/kg	0.27	0.15	50		07/19/24 01:23	67-66-3	
Chloromethane	**<0.023**	mg/kg	0.27	0.023	50		07/19/24 01:23	74-87-3	
2-Chlorotoluene	**<0.013**	mg/kg	0.27	0.013	50		07/19/24 01:23	95-49-8	
4-Chlorotoluene	**<0.012**	mg/kg	0.27	0.012	50		07/19/24 01:23	106-43-4	
Dibromochloromethane	**<0.020**	mg/kg	0.27	0.020	50		07/19/24 01:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.022**	mg/kg	0.27	0.022	50		07/19/24 01:23	106-93-4	
Dibromomethane	**<0.060**	mg/kg	0.27	0.060	50		07/19/24 01:23	74-95-3	
1,2-Dichlorobenzene	**<0.016**	mg/kg	0.27	0.016	50		07/19/24 01:23	95-50-1	
1,3-Dichlorobenzene	**<0.015**	mg/kg	0.27	0.015	50		07/19/24 01:23	541-73-1	
1,4-Dichlorobenzene	**<0.016**	mg/kg	0.27	0.016	50		07/19/24 01:23	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.14**	mg/kg	5.5	0.14	50		07/19/24 01:23	110-57-6	
Dichlorodifluoromethane	**<0.020**	mg/kg	0.27	0.020	50		07/19/24 01:23	75-71-8	
1,1-Dichloroethane	**<0.012**	mg/kg	0.27	0.012	50		07/19/24 01:23	75-34-3	
1,2-Dichloroethane	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	107-06-2	
1,1-Dichloroethene	**<0.022**	mg/kg	0.27	0.022	50		07/19/24 01:23	75-35-4	
cis-1,2-Dichloroethene	**<0.018**	mg/kg	0.27	0.018	50		07/19/24 01:23	156-59-2	
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.27	0.025	50		07/19/24 01:23	156-60-5	
1,2-Dichloropropane	**<0.021**	mg/kg	0.27	0.021	50		07/19/24 01:23	78-87-5	
1,3-Dichloropropane	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	142-28-9	
2,2-Dichloropropane	**<0.091**	mg/kg	0.27	0.091	50		07/19/24 01:23	594-20-7	
1,1-Dichloropropene	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	563-58-6	
cis-1,3-Dichloropropene	**<0.048**	mg/kg	0.27	0.048	50		07/19/24 01:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.062**	mg/kg	0.27	0.062	50		07/19/24 01:23	10061-02-6	
Ethylbenzene	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	100-41-4	
Ethyl methacrylate	**<0.17**	mg/kg	5.5	0.17	50		07/19/24 01:23	97-63-2	
Hexachloro-1,3-butadiene	**<0.027**	mg/kg	0.27	0.027	50		07/19/24 01:23	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 7' **Lab ID: 50377912008** Collected: 07/10/24 09:25 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 5.639 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**0.52**	mg/kg	0.27	0.027	50		07/19/24 01:23	110-54-3	
2-Hexanone	**<0.12**	mg/kg	5.5	0.12	50		07/19/24 01:23	591-78-6	
Iodomethane	**<0.14**	mg/kg	5.5	0.14	50		07/19/24 01:23	74-88-4	
Isopropylbenzene (Cumene)	**1.0**	mg/kg	0.27	0.013	50		07/19/24 01:23	98-82-8	
p-Isopropyltoluene	**0.95**	mg/kg	0.27	0.017	50		07/19/24 01:23	99-87-6	
Methylene Chloride	**<0.67**	mg/kg	1.1	0.67	50		07/19/24 01:23	75-09-2	
1-Methylnaphthalene	**1.2**	mg/kg	0.55	0.015	50		07/19/24 01:23	90-12-0	
2-Methylnaphthalene	**2.3**	mg/kg	0.55	0.15	50		07/19/24 01:23	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.14**	mg/kg	1.4	0.14	50		07/19/24 01:23	108-10-1	
Methyl-tert-butyl ether	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	1634-04-4	
Naphthalene	**<0.10**	mg/kg	0.27	0.10	50		07/19/24 01:23	91-20-3	
n-Propylbenzene	**2.0**	mg/kg	0.27	0.011	50		07/19/24 01:23	103-65-1	
Styrene	**<0.013**	mg/kg	0.27	0.013	50		07/19/24 01:23	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.015**	mg/kg	0.27	0.015	50		07/19/24 01:23	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.030**	mg/kg	0.27	0.030	50		07/19/24 01:23	79-34-5	M1
Tetrachloroethene	**<0.017**	mg/kg	0.27	0.017	50		07/19/24 01:23	127-18-4	
Toluene	**<0.025**	mg/kg	0.27	0.025	50		07/19/24 01:23	108-88-3	
1,2,3-Trichlorobenzene	**<0.048**	mg/kg	0.27	0.048	50		07/19/24 01:23	87-61-6	
1,2,4-Trichlorobenzene	**<0.042**	mg/kg	0.27	0.042	50		07/19/24 01:23	120-82-1	
1,1,1-Trichloroethane	**<0.019**	mg/kg	0.27	0.019	50		07/19/24 01:23	71-55-6	
1,1,2-Trichloroethane	**<0.051**	mg/kg	0.27	0.051	50		07/19/24 01:23	79-00-5	
Trichloroethene	**<0.021**	mg/kg	0.27	0.021	50		07/19/24 01:23	79-01-6	
Trichlorofluoromethane	**<0.022**	mg/kg	0.27	0.022	50		07/19/24 01:23	75-69-4	
1,2,3-Trichloropropane	**<0.070**	mg/kg	0.27	0.070	50		07/19/24 01:23	96-18-4	
1,2,4-Trimethylbenzene	**<0.038**	mg/kg	0.27	0.038	50		07/19/24 01:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.014**	mg/kg	0.27	0.014	50		07/19/24 01:23	108-67-8	
Vinyl acetate	**<0.065**	mg/kg	5.5	0.065	50		07/19/24 01:23	108-05-4	
Vinyl chloride	**<0.059**	mg/kg	0.27	0.059	50		07/19/24 01:23	75-01-4	
Xylene (Total)	**<0.12**	mg/kg	0.55	0.12	50		07/19/24 01:23	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	87	%.	75-135		50		07/19/24 01:23	1868-53-7	
Toluene-d8 (S)	118	%.	65-148		50		07/19/24 01:23	2037-26-5	
4-Bromofluorobenzene (S)	116	%.	63-132		50		07/19/24 01:23	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**18.9**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-3R 10' **Lab ID: 50377912009** Collected: 07/10/24 10:15 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5.72 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**0.0088J**	mg/kg	0.11	0.0058	1		07/19/24 02:54	67-64-1	
Acrolein	**<0.017**	mg/kg	0.11	0.017	1		07/19/24 02:54	107-02-8	
Acrylonitrile	**<0.0018**	mg/kg	0.11	0.0018	1		07/19/24 02:54	107-13-1	
Benzene	**<0.00018**	mg/kg	0.0053	0.00018	1		07/19/24 02:54	71-43-2	
Bromobenzene	**<0.00031**	mg/kg	0.0053	0.00031	1		07/19/24 02:54	108-86-1	
Bromochloromethane	**<0.00037**	mg/kg	0.0053	0.00037	1		07/19/24 02:54	74-97-5	
Bromodichloromethane	**<0.00032**	mg/kg	0.0053	0.00032	1		07/19/24 02:54	75-27-4	
Bromoform	**<0.0020**	mg/kg	0.0053	0.0020	1		07/19/24 02:54	75-25-2	
Bromomethane	**<0.0010**	mg/kg	0.0053	0.0010	1		07/19/24 02:54	74-83-9	
2-Butanone (MEK)	**<0.011**	mg/kg	0.027	0.011	1		07/19/24 02:54	78-93-3	
n-Butylbenzene	**<0.00040**	mg/kg	0.0053	0.00040	1		07/19/24 02:54	104-51-8	
sec-Butylbenzene	**<0.00027**	mg/kg	0.0053	0.00027	1		07/19/24 02:54	135-98-8	
tert-Butylbenzene	**<0.00020**	mg/kg	0.0053	0.00020	1		07/19/24 02:54	98-06-6	
Carbon disulfide	**<0.00093**	mg/kg	0.011	0.00093	1		07/19/24 02:54	75-15-0	
Carbon tetrachloride	**<0.0015**	mg/kg	0.0053	0.0015	1		07/19/24 02:54	56-23-5	
Chlorobenzene	**<0.00022**	mg/kg	0.0053	0.00022	1		07/19/24 02:54	108-90-7	
Chloroethane	**<0.00097**	mg/kg	0.0053	0.00097	1		07/19/24 02:54	75-00-3	
Chloroform	**<0.0029**	mg/kg	0.0053	0.0029	1		07/19/24 02:54	67-66-3	
Chloromethane	**<0.00046**	mg/kg	0.0053	0.00046	1		07/19/24 02:54	74-87-3	
2-Chlorotoluene	**<0.00024**	mg/kg	0.0053	0.00024	1		07/19/24 02:54	95-49-8	
4-Chlorotoluene	**<0.00023**	mg/kg	0.0053	0.00023	1		07/19/24 02:54	106-43-4	
Dibromochloromethane	**<0.00038**	mg/kg	0.0053	0.00038	1		07/19/24 02:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00042**	mg/kg	0.0053	0.00042	1		07/19/24 02:54	106-93-4	
Dibromomethane	**<0.0012**	mg/kg	0.0053	0.0012	1		07/19/24 02:54	74-95-3	
1,2-Dichlorobenzene	**<0.00031**	mg/kg	0.0053	0.00031	1		07/19/24 02:54	95-50-1	
1,3-Dichlorobenzene	**<0.00030**	mg/kg	0.0053	0.00030	1		07/19/24 02:54	541-73-1	
1,4-Dichlorobenzene	**<0.00032**	mg/kg	0.0053	0.00032	1		07/19/24 02:54	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.0027**	mg/kg	0.11	0.0027	1		07/19/24 02:54	110-57-6	
Dichlorodifluoromethane	**<0.00039**	mg/kg	0.0053	0.00039	1		07/19/24 02:54	75-71-8	
1,1-Dichloroethane	**<0.00024**	mg/kg	0.0053	0.00024	1		07/19/24 02:54	75-34-3	
1,2-Dichloroethane	**<0.00027**	mg/kg	0.0053	0.00027	1		07/19/24 02:54	107-06-2	
1,1-Dichloroethene	**<0.00043**	mg/kg	0.0053	0.00043	1		07/19/24 02:54	75-35-4	
cis-1,2-Dichloroethene	**<0.00036**	mg/kg	0.0053	0.00036	1		07/19/24 02:54	156-59-2	
trans-1,2-Dichloroethene	**<0.00049**	mg/kg	0.0053	0.00049	1		07/19/24 02:54	156-60-5	
1,2-Dichloropropane	**<0.00041**	mg/kg	0.0053	0.00041	1		07/19/24 02:54	78-87-5	
1,3-Dichloropropane	**<0.00028**	mg/kg	0.0053	0.00028	1		07/19/24 02:54	142-28-9	
2,2-Dichloropropane	**<0.0018**	mg/kg	0.0053	0.0018	1		07/19/24 02:54	594-20-7	
1,1-Dichloropropene	**<0.00028**	mg/kg	0.0053	0.00028	1		07/19/24 02:54	563-58-6	
cis-1,3-Dichloropropene	**<0.00093**	mg/kg	0.0053	0.00093	1		07/19/24 02:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.0012**	mg/kg	0.0053	0.0012	1		07/19/24 02:54	10061-02-6	
Ethylbenzene	**<0.00027**	mg/kg	0.0053	0.00027	1		07/19/24 02:54	100-41-4	
Ethyl methacrylate	**<0.0032**	mg/kg	0.11	0.0032	1		07/19/24 02:54	97-63-2	
Hexachloro-1,3-butadiene	**<0.00053**	mg/kg	0.0053	0.00053	1		07/19/24 02:54	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-3R 10' **Lab ID: 50377912009** Collected: 07/10/24 10:15 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
	Initial Volume/Weight: 5.72 g Final Volume/Weight: 5 mL								
	Pace Analytical Services - Indianapolis								
n-Hexane	**<0.00052**	mg/kg	0.0053	0.00052	1		07/19/24 02:54	110-54-3	
2-Hexanone	**<0.0023**	mg/kg	0.11	0.0023	1		07/19/24 02:54	591-78-6	
Iodomethane	**<0.0028**	mg/kg	0.11	0.0028	1		07/19/24 02:54	74-88-4	
Isopropylbenzene (Cumene)	**<0.00025**	mg/kg	0.0053	0.00025	1		07/19/24 02:54	98-82-8	
p-Isopropyltoluene	**<0.00033**	mg/kg	0.0053	0.00033	1		07/19/24 02:54	99-87-6	
Methylene Chloride	**<0.013**	mg/kg	0.021	0.013	1		07/19/24 02:54	75-09-2	
1-Methylnaphthalene	**0.0025J**	mg/kg	0.011	0.00029	1		07/19/24 02:54	90-12-0	B
2-Methylnaphthalene	**<0.0030**	mg/kg	0.011	0.0030	1		07/19/24 02:54	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.0028**	mg/kg	0.027	0.0028	1		07/19/24 02:54	108-10-1	
Methyl-tert-butyl ether	**<0.00028**	mg/kg	0.0053	0.00028	1		07/19/24 02:54	1634-04-4	
Naphthalene	**<0.0020**	mg/kg	0.0053	0.0020	1		07/19/24 02:54	91-20-3	
n-Propylbenzene	**<0.00022**	mg/kg	0.0053	0.00022	1		07/19/24 02:54	103-65-1	
Styrene	**<0.00025**	mg/kg	0.0053	0.00025	1		07/19/24 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.00029**	mg/kg	0.0053	0.00029	1		07/19/24 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00059**	mg/kg	0.0053	0.00059	1		07/19/24 02:54	79-34-5	
Tetrachloroethene	**<0.00033**	mg/kg	0.0053	0.00033	1		07/19/24 02:54	127-18-4	
Toluene	**0.0014J**	mg/kg	0.0053	0.00049	1		07/19/24 02:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.00093**	mg/kg	0.0053	0.00093	1		07/19/24 02:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.00082**	mg/kg	0.0053	0.00082	1		07/19/24 02:54	120-82-1	
1,1,1-Trichloroethane	**<0.00037**	mg/kg	0.0053	0.00037	1		07/19/24 02:54	71-55-6	
1,1,2-Trichloroethane	**<0.00098**	mg/kg	0.0053	0.00098	1		07/19/24 02:54	79-00-5	
Trichloroethene	**<0.00041**	mg/kg	0.0053	0.00041	1		07/19/24 02:54	79-01-6	
Trichlorofluoromethane	**<0.00042**	mg/kg	0.0053	0.00042	1		07/19/24 02:54	75-69-4	
1,2,3-Trichloropropane	**<0.0014**	mg/kg	0.0053	0.0014	1		07/19/24 02:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.00074**	mg/kg	0.0053	0.00074	1		07/19/24 02:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.00028**	mg/kg	0.0053	0.00028	1		07/19/24 02:54	108-67-8	
Vinyl acetate	**<0.0013**	mg/kg	0.11	0.0013	1		07/19/24 02:54	108-05-4	
Vinyl chloride	**<0.0011**	mg/kg	0.0053	0.0011	1		07/19/24 02:54	75-01-4	
Xylene (Total)	**<0.0023**	mg/kg	0.011	0.0023	1		07/19/24 02:54	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%.	75-135		1		07/19/24 02:54	1868-53-7	
Toluene-d8 (S)	102	%.	65-148		1		07/19/24 02:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	63-132		1		07/19/24 02:54	460-00-4	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**17.8**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-6 (6-7') **Lab ID: 50377912010** Collected: 07/10/24 08:25 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.1 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.011**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 01:45	83-32-9	
Acenaphthylene	**<0.0024**	mg/kg	0.0063	0.0024	1	07/18/24 10:02	07/19/24 01:45	208-96-8	
Anthracene	**<0.0032**	mg/kg	0.0063	0.0032	1	07/18/24 10:02	07/19/24 01:45	120-12-7	
Benzo(a)anthracene	**<0.0018**	mg/kg	0.0063	0.0018	1	07/18/24 10:02	07/19/24 01:45	56-55-3	
Benzo(a)pyrene	**<0.0038**	mg/kg	0.0063	0.0038	1	07/18/24 10:02	07/19/24 01:45	50-32-8	
Benzo(b)fluoranthene	**<0.0035**	mg/kg	0.0063	0.0035	1	07/18/24 10:02	07/19/24 01:45	205-99-2	
Benzo(g,h,i)perylene	**<0.0037**	mg/kg	0.0063	0.0037	1	07/18/24 10:02	07/19/24 01:45	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0063	0.0029	1	07/18/24 10:02	07/19/24 01:45	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.0063	0.0043	1	07/18/24 10:02	07/19/24 01:45	218-01-9	
Dibenz(a,h)anthracene	**<0.0031**	mg/kg	0.0063	0.0031	1	07/18/24 10:02	07/19/24 01:45	53-70-3	
Fluoranthene	**<0.0044**	mg/kg	0.0063	0.0044	1	07/18/24 10:02	07/19/24 01:45	206-44-0	
Fluorene	**0.019**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 01:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0032**	mg/kg	0.0063	0.0032	1	07/18/24 10:02	07/19/24 01:45	193-39-5	
1-Methylnaphthalene	**0.019**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 01:45	90-12-0	
2-Methylnaphthalene	**<0.0059**	mg/kg	0.0063	0.0059	1	07/18/24 10:02	07/19/24 01:45	91-57-6	
Naphthalene	**<0.0058**	mg/kg	0.0063	0.0058	1	07/18/24 10:02	07/19/24 01:45	91-20-3	
Phenanthrene	**0.010**	mg/kg	0.0063	0.0045	1	07/18/24 10:02	07/19/24 01:45	85-01-8	
Pyrene	**<0.0043**	mg/kg	0.0063	0.0043	1	07/18/24 10:02	07/19/24 01:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%.	16-93		1	07/18/24 10:02	07/19/24 01:45	321-60-8	
p-Terphenyl-d14 (S)	72	%.	19-115		1	07/18/24 10:02	07/19/24 01:45	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**21.2**	%	0.10	0.10	1		07/22/24 16:04		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 (7-9') **Lab ID: 50377912011** Collected: 07/10/24 08:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.0082**	mg/kg	0.0061	0.0025	1	07/18/24 10:02	07/19/24 11:57	83-32-9	
Acenaphthylene	**0.0031J**	mg/kg	0.0061	0.0023	1	07/18/24 10:02	07/19/24 11:57	208-96-8	
Anthracene	**<0.0031**	mg/kg	0.0061	0.0031	1	07/18/24 10:02	07/19/24 11:57	120-12-7	
Benzo(a)anthracene	**0.010**	mg/kg	0.0061	0.0017	1	07/18/24 10:02	07/19/24 11:57	56-55-3	
Benzo(a)pyrene	**0.0059J**	mg/kg	0.0061	0.0036	1	07/18/24 10:02	07/19/24 11:57	50-32-8	
Benzo(b)fluoranthene	**0.0071**	mg/kg	0.0061	0.0034	1	07/18/24 10:02	07/19/24 11:57	205-99-2	
Benzo(g,h,i)perylene	**<0.0036**	mg/kg	0.0061	0.0036	1	07/18/24 10:02	07/19/24 11:57	191-24-2	
Benzo(k)fluoranthene	**<0.0028**	mg/kg	0.0061	0.0028	1	07/18/24 10:02	07/19/24 11:57	207-08-9	
Chrysene	**0.023**	mg/kg	0.0061	0.0042	1	07/18/24 10:02	07/19/24 11:57	218-01-9	
Dibenz(a,h)anthracene	**<0.0030**	mg/kg	0.0061	0.0030	1	07/18/24 10:02	07/19/24 11:57	53-70-3	
Fluoranthene	**0.017**	mg/kg	0.0061	0.0043	1	07/18/24 10:02	07/19/24 11:57	206-44-0	
Fluorene	**0.031**	mg/kg	0.0061	0.0024	1	07/18/24 10:02	07/19/24 11:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0031**	mg/kg	0.0061	0.0031	1	07/18/24 10:02	07/19/24 11:57	193-39-5	
1-Methylnaphthalene	**0.39**	mg/kg	0.0061	0.0025	1	07/18/24 10:02	07/19/24 11:57	90-12-0	
2-Methylnaphthalene	**0.66**	mg/kg	0.0061	0.0058	1	07/18/24 10:02	07/19/24 11:57	91-57-6	
Naphthalene	**<0.0056**	mg/kg	0.0061	0.0056	1	07/18/24 10:02	07/19/24 11:57	91-20-3	
Phenanthrene	**0.057**	mg/kg	0.0061	0.0044	1	07/18/24 10:02	07/19/24 11:57	85-01-8	
Pyrene	**0.018**	mg/kg	0.0061	0.0042	1	07/18/24 10:02	07/19/24 11:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%.	16-93		1	07/18/24 10:02	07/19/24 11:57	321-60-8	
p-Terphenyl-d14 (S)	77	%.	19-115		1	07/18/24 10:02	07/19/24 11:57	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**20.9**	%	0.10	0.10	1		07/22/24 16:05		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 (10-12') **Lab ID: 50377912012** Collected: 07/10/24 08:55 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.3 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.011**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 12:11	83-32-9	
Acenaphthylene	**<0.0024**	mg/kg	0.0063	0.0024	1	07/18/24 10:02	07/19/24 12:11	208-96-8	
Anthracene	**<0.0032**	mg/kg	0.0063	0.0032	1	07/18/24 10:02	07/19/24 12:11	120-12-7	
Benzo(a)anthracene	**0.013**	mg/kg	0.0063	0.0018	1	07/18/24 10:02	07/19/24 12:11	56-55-3	
Benzo(a)pyrene	**0.0085**	mg/kg	0.0063	0.0038	1	07/18/24 10:02	07/19/24 12:11	50-32-8	
Benzo(b)fluoranthene	**0.0097**	mg/kg	0.0063	0.0035	1	07/18/24 10:02	07/19/24 12:11	205-99-2	
Benzo(g,h,i)perylene	**0.0046J**	mg/kg	0.0063	0.0037	1	07/18/24 10:02	07/19/24 12:11	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0063	0.0029	1	07/18/24 10:02	07/19/24 12:11	207-08-9	
Chrysene	**0.032**	mg/kg	0.0063	0.0043	1	07/18/24 10:02	07/19/24 12:11	218-01-9	
Dibenz(a,h)anthracene	**<0.0031**	mg/kg	0.0063	0.0031	1	07/18/24 10:02	07/19/24 12:11	53-70-3	
Fluoranthene	**0.023**	mg/kg	0.0063	0.0044	1	07/18/24 10:02	07/19/24 12:11	206-44-0	
Fluorene	**0.036**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 12:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0032**	mg/kg	0.0063	0.0032	1	07/18/24 10:02	07/19/24 12:11	193-39-5	
1-Methylnaphthalene	**0.50**	mg/kg	0.0063	0.0025	1	07/18/24 10:02	07/19/24 12:11	90-12-0	
2-Methylnaphthalene	**0.83**	mg/kg	0.0063	0.0059	1	07/18/24 10:02	07/19/24 12:11	91-57-6	
Naphthalene	**<0.0058**	mg/kg	0.0063	0.0058	1	07/18/24 10:02	07/19/24 12:11	91-20-3	
Phenanthrene	**0.079**	mg/kg	0.0063	0.0045	1	07/18/24 10:02	07/19/24 12:11	85-01-8	
Pyrene	**0.025**	mg/kg	0.0063	0.0043	1	07/18/24 10:02	07/19/24 12:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%.	16-93		1	07/18/24 10:02	07/19/24 12:11	321-60-8	
p-Terphenyl-d14 (S)	74	%.	19-115		1	07/18/24 10:02	07/19/24 12:11	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**22.4**	%	0.10	0.10	1		07/22/24 16:05		N2

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 (10-12') DUP **Lab ID: 50377912013** Collected: 07/10/24 08:55 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.016**	mg/kg	0.0064	0.0026	1	07/18/24 11:19	07/19/24 13:24	83-32-9	
Acenaphthylene	**<0.0024**	mg/kg	0.0064	0.0024	1	07/18/24 11:19	07/19/24 13:24	208-96-8	
Anthracene	**<0.0032**	mg/kg	0.0064	0.0032	1	07/18/24 11:19	07/19/24 13:24	120-12-7	
Benzo(a)anthracene	**0.016**	mg/kg	0.0064	0.0018	1	07/18/24 11:19	07/19/24 13:24	56-55-3	
Benzo(a)pyrene	**0.0094**	mg/kg	0.0064	0.0038	1	07/18/24 11:19	07/19/24 13:24	50-32-8	
Benzo(b)fluoranthene	**0.012**	mg/kg	0.0064	0.0035	1	07/18/24 11:19	07/19/24 13:24	205-99-2	
Benzo(g,h,i)perylene	**0.0042J**	mg/kg	0.0064	0.0038	1	07/18/24 11:19	07/19/24 13:24	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0064	0.0029	1	07/18/24 11:19	07/19/24 13:24	207-08-9	
Chrysene	**0.036**	mg/kg	0.0064	0.0044	1	07/18/24 11:19	07/19/24 13:24	218-01-9	
Dibenz(a,h)anthracene	**<0.0031**	mg/kg	0.0064	0.0031	1	07/18/24 11:19	07/19/24 13:24	53-70-3	
Fluoranthene	**0.029**	mg/kg	0.0064	0.0044	1	07/18/24 11:19	07/19/24 13:24	206-44-0	
Fluorene	**0.045**	mg/kg	0.0064	0.0025	1	07/18/24 11:19	07/19/24 13:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0032**	mg/kg	0.0064	0.0032	1	07/18/24 11:19	07/19/24 13:24	193-39-5	
1-Methylnaphthalene	**0.69**	mg/kg	0.0064	0.0026	1	07/18/24 11:19	07/19/24 13:24	90-12-0	
2-Methylnaphthalene	**1.2**	mg/kg	0.0064	0.0060	1	07/18/24 11:19	07/19/24 13:24	91-57-6	
Naphthalene	**<0.0059**	mg/kg	0.0064	0.0059	1	07/18/24 11:19	07/19/24 13:24	91-20-3	
Phenanthrene	**0.083**	mg/kg	0.0064	0.0046	1	07/18/24 11:19	07/19/24 13:24	85-01-8	
Pyrene	**0.031**	mg/kg	0.0064	0.0044	1	07/18/24 11:19	07/19/24 13:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	16-93		1	07/18/24 11:19	07/19/24 13:24	321-60-8	
p-Terphenyl-d14 (S)	65	%.	19-115		1	07/18/24 11:19	07/19/24 13:24	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**23.6**	%	0.10	0.10	1		07/22/24 16:05		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 (7-10') **Lab ID: 50377912014** Collected: 07/10/24 07:50 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.9 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0024**	mg/kg	0.0060	0.0024	1	07/18/24 11:19	07/19/24 13:39	83-32-9	
Acenaphthylene	**<0.0023**	mg/kg	0.0060	0.0023	1	07/18/24 11:19	07/19/24 13:39	208-96-8	
Anthracene	**<0.0030**	mg/kg	0.0060	0.0030	1	07/18/24 11:19	07/19/24 13:39	120-12-7	
Benzo(a)anthracene	**<0.0017**	mg/kg	0.0060	0.0017	1	07/18/24 11:19	07/19/24 13:39	56-55-3	
Benzo(a)pyrene	**<0.0036**	mg/kg	0.0060	0.0036	1	07/18/24 11:19	07/19/24 13:39	50-32-8	
Benzo(b)fluoranthene	**<0.0033**	mg/kg	0.0060	0.0033	1	07/18/24 11:19	07/19/24 13:39	205-99-2	
Benzo(g,h,i)perylene	**<0.0036**	mg/kg	0.0060	0.0036	1	07/18/24 11:19	07/19/24 13:39	191-24-2	
Benzo(k)fluoranthene	**<0.0028**	mg/kg	0.0060	0.0028	1	07/18/24 11:19	07/19/24 13:39	207-08-9	
Chrysene	**0.0052J**	mg/kg	0.0060	0.0041	1	07/18/24 11:19	07/19/24 13:39	218-01-9	
Dibenz(a,h)anthracene	**<0.0029**	mg/kg	0.0060	0.0029	1	07/18/24 11:19	07/19/24 13:39	53-70-3	
Fluoranthene	**0.0046J**	mg/kg	0.0060	0.0042	1	07/18/24 11:19	07/19/24 13:39	206-44-0	
Fluorene	**<0.0024**	mg/kg	0.0060	0.0024	1	07/18/24 11:19	07/19/24 13:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0031**	mg/kg	0.0060	0.0031	1	07/18/24 11:19	07/19/24 13:39	193-39-5	
1-Methylnaphthalene	**0.12**	mg/kg	0.0060	0.0024	1	07/18/24 11:19	07/19/24 13:39	90-12-0	
2-Methylnaphthalene	**0.23**	mg/kg	0.0060	0.0056	1	07/18/24 11:19	07/19/24 13:39	91-57-6	
Naphthalene	**0.17**	mg/kg	0.0060	0.0055	1	07/18/24 11:19	07/19/24 13:39	91-20-3	
Phenanthrene	**0.0088**	mg/kg	0.0060	0.0043	1	07/18/24 11:19	07/19/24 13:39	85-01-8	
Pyrene	**0.0044J**	mg/kg	0.0060	0.0041	1	07/18/24 11:19	07/19/24 13:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%.	16-93		1	07/18/24 11:19	07/19/24 13:39	321-60-8	
p-Terphenyl-d14 (S)	76	%.	19-115		1	07/18/24 11:19	07/19/24 13:39	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**21.3**	%	0.10	0.10	1		07/22/24 16:07		N2

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 (10-12') **Lab ID: 50377912015** Collected: 07/10/24 07:55 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.6 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.0055J**	mg/kg	0.0061	0.0024	1	07/18/24 11:19	07/19/24 13:53	83-32-9	
Acenaphthylene	**0.0051J**	mg/kg	0.0061	0.0023	1	07/18/24 11:19	07/19/24 13:53	208-96-8	
Anthracene	**<0.0030**	mg/kg	0.0061	0.0030	1	07/18/24 11:19	07/19/24 13:53	120-12-7	
Benzo(a)anthracene	**0.0088**	mg/kg	0.0061	0.0017	1	07/18/24 11:19	07/19/24 13:53	56-55-3	
Benzo(a)pyrene	**0.0042J**	mg/kg	0.0061	0.0036	1	07/18/24 11:19	07/19/24 13:53	50-32-8	
Benzo(b)fluoranthene	**0.0046J**	mg/kg	0.0061	0.0033	1	07/18/24 11:19	07/19/24 13:53	205-99-2	
Benzo(g,h,i)perylene	**<0.0036**	mg/kg	0.0061	0.0036	1	07/18/24 11:19	07/19/24 13:53	191-24-2	
Benzo(k)fluoranthene	**<0.0028**	mg/kg	0.0061	0.0028	1	07/18/24 11:19	07/19/24 13:53	207-08-9	
Chrysene	**0.017**	mg/kg	0.0061	0.0042	1	07/18/24 11:19	07/19/24 13:53	218-01-9	
Dibenz(a,h)anthracene	**<0.0030**	mg/kg	0.0061	0.0030	1	07/18/24 11:19	07/19/24 13:53	53-70-3	
Fluoranthene	**0.012**	mg/kg	0.0061	0.0042	1	07/18/24 11:19	07/19/24 13:53	206-44-0	
Fluorene	**0.014**	mg/kg	0.0061	0.0024	1	07/18/24 11:19	07/19/24 13:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0031**	mg/kg	0.0061	0.0031	1	07/18/24 11:19	07/19/24 13:53	193-39-5	
1-Methylnaphthalene	**0.19**	mg/kg	0.0061	0.0024	1	07/18/24 11:19	07/19/24 13:53	90-12-0	
2-Methylnaphthalene	**0.26**	mg/kg	0.0061	0.0057	1	07/18/24 11:19	07/19/24 13:53	91-57-6	
Naphthalene	**0.11**	mg/kg	0.0061	0.0056	1	07/18/24 11:19	07/19/24 13:53	91-20-3	
Phenanthrene	**0.024**	mg/kg	0.0061	0.0044	1	07/18/24 11:19	07/19/24 13:53	85-01-8	
Pyrene	**0.013**	mg/kg	0.0061	0.0042	1	07/18/24 11:19	07/19/24 13:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	16-93		1	07/18/24 11:19	07/19/24 13:53	321-60-8	
p-Terphenyl-d14 (S)	62	%.	19-115		1	07/18/24 11:19	07/19/24 13:53	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**20.5**	%	0.10	0.10	1		07/22/24 16:08		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 (7-10') **Lab ID: 50377912016** Collected: 07/10/24 08:10 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.1 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.0046J**	mg/kg	0.0061	0.0025	1	07/18/24 11:19	07/19/24 14:07	83-32-9	
Acenaphthylene	**<0.0023**	mg/kg	0.0061	0.0023	1	07/18/24 11:19	07/19/24 14:07	208-96-8	
Anthracene	**<0.0031**	mg/kg	0.0061	0.0031	1	07/18/24 11:19	07/19/24 14:07	120-12-7	
Benzo(a)anthracene	**0.0056J**	mg/kg	0.0061	0.0017	1	07/18/24 11:19	07/19/24 14:07	56-55-3	
Benzo(a)pyrene	**<0.0036**	mg/kg	0.0061	0.0036	1	07/18/24 11:19	07/19/24 14:07	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	mg/kg	0.0061	0.0034	1	07/18/24 11:19	07/19/24 14:07	205-99-2	
Benzo(g,h,i)perylene	**<0.0036**	mg/kg	0.0061	0.0036	1	07/18/24 11:19	07/19/24 14:07	191-24-2	
Benzo(k)fluoranthene	**<0.0028**	mg/kg	0.0061	0.0028	1	07/18/24 11:19	07/19/24 14:07	207-08-9	
Chrysene	**0.013**	mg/kg	0.0061	0.0042	1	07/18/24 11:19	07/19/24 14:07	218-01-9	
Dibenz(a,h)anthracene	**<0.0030**	mg/kg	0.0061	0.0030	1	07/18/24 11:19	07/19/24 14:07	53-70-3	
Fluoranthene	**0.0099**	mg/kg	0.0061	0.0043	1	07/18/24 11:19	07/19/24 14:07	206-44-0	
Fluorene	**0.012**	mg/kg	0.0061	0.0024	1	07/18/24 11:19	07/19/24 14:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0031**	mg/kg	0.0061	0.0031	1	07/18/24 11:19	07/19/24 14:07	193-39-5	
1-Methylnaphthalene	**0.20**	mg/kg	0.0061	0.0025	1	07/18/24 11:19	07/19/24 14:07	90-12-0	
2-Methylnaphthalene	**0.32**	mg/kg	0.0061	0.0057	1	07/18/24 11:19	07/19/24 14:07	91-57-6	
Naphthalene	**<0.0056**	mg/kg	0.0061	0.0056	1	07/18/24 11:19	07/19/24 14:07	91-20-3	
Phenanthrene	**0.016**	mg/kg	0.0061	0.0044	1	07/18/24 11:19	07/19/24 14:07	85-01-8	
Pyrene	**0.0094**	mg/kg	0.0061	0.0042	1	07/18/24 11:19	07/19/24 14:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	16-93		1	07/18/24 11:19	07/19/24 14:07	321-60-8	
p-Terphenyl-d14 (S)	74	%.	19-115		1	07/18/24 11:19	07/19/24 14:07	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**18.7**	%	0.10	0.10	1		07/22/24 16:08		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 (10-12') **Lab ID: 50377912017** Collected: 07/10/24 08:15 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.7 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0023**	mg/kg	0.0057	0.0023	1	07/18/24 11:19	07/19/24 14:21	83-32-9	
Acenaphthylene	**<0.0021**	mg/kg	0.0057	0.0021	1	07/18/24 11:19	07/19/24 14:21	208-96-8	
Anthracene	**<0.0029**	mg/kg	0.0057	0.0029	1	07/18/24 11:19	07/19/24 14:21	120-12-7	
Benzo(a)anthracene	**0.0047J**	mg/kg	0.0057	0.0016	1	07/18/24 11:19	07/19/24 14:21	56-55-3	
Benzo(a)pyrene	**<0.0034**	mg/kg	0.0057	0.0034	1	07/18/24 11:19	07/19/24 14:21	50-32-8	
Benzo(b)fluoranthene	**<0.0031**	mg/kg	0.0057	0.0031	1	07/18/24 11:19	07/19/24 14:21	205-99-2	
Benzo(g,h,i)perylene	**<0.0034**	mg/kg	0.0057	0.0034	1	07/18/24 11:19	07/19/24 14:21	191-24-2	
Benzo(k)fluoranthene	**<0.0026**	mg/kg	0.0057	0.0026	1	07/18/24 11:19	07/19/24 14:21	207-08-9	
Chrysene	**0.0087**	mg/kg	0.0057	0.0039	1	07/18/24 11:19	07/19/24 14:21	218-01-9	
Dibenz(a,h)anthracene	**<0.0028**	mg/kg	0.0057	0.0028	1	07/18/24 11:19	07/19/24 14:21	53-70-3	
Fluoranthene	**0.0062**	mg/kg	0.0057	0.0040	1	07/18/24 11:19	07/19/24 14:21	206-44-0	
Fluorene	**0.0074**	mg/kg	0.0057	0.0023	1	07/18/24 11:19	07/19/24 14:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0029**	mg/kg	0.0057	0.0029	1	07/18/24 11:19	07/19/24 14:21	193-39-5	
1-Methylnaphthalene	**0.15**	mg/kg	0.0057	0.0023	1	07/18/24 11:19	07/19/24 14:21	90-12-0	
2-Methylnaphthalene	**0.28**	mg/kg	0.0057	0.0054	1	07/18/24 11:19	07/19/24 14:21	91-57-6	
Naphthalene	**<0.0052**	mg/kg	0.0057	0.0052	1	07/18/24 11:19	07/19/24 14:21	91-20-3	
Phenanthrene	**0.011**	mg/kg	0.0057	0.0041	1	07/18/24 11:19	07/19/24 14:21	85-01-8	
Pyrene	**0.0057J**	mg/kg	0.0057	0.0039	1	07/18/24 11:19	07/19/24 14:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	16-93		1	07/18/24 11:19	07/19/24 14:21	321-60-8	
p-Terphenyl-d14 (S)	64	%.	19-115		1	07/18/24 11:19	07/19/24 14:21	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**16.1**	%	0.10	0.10	1		07/22/24 16:08		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 (0-2') **Lab ID: 50377912018** Collected: 07/10/24 09:40 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0023**	mg/kg	0.0057	0.0023	1	07/18/24 11:19	07/19/24 14:35	83-32-9	
Acenaphthylene	**0.021**	mg/kg	0.0057	0.0021	1	07/18/24 11:19	07/19/24 14:35	208-96-8	
Anthracene	**0.0083**	mg/kg	0.0057	0.0028	1	07/18/24 11:19	07/19/24 14:35	120-12-7	
Benzo(a)anthracene	**0.045**	mg/kg	0.0057	0.0016	1	07/18/24 11:19	07/19/24 14:35	56-55-3	
Benzo(a)pyrene	**0.058**	mg/kg	0.0057	0.0034	1	07/18/24 11:19	07/19/24 14:35	50-32-8	
Benzo(b)fluoranthene	**0.094**	mg/kg	0.0057	0.0031	1	07/18/24 11:19	07/19/24 14:35	205-99-2	
Benzo(g,h,i)perylene	**0.044**	mg/kg	0.0057	0.0034	1	07/18/24 11:19	07/19/24 14:35	191-24-2	
Benzo(k)fluoranthene	**<0.0026**	mg/kg	0.0057	0.0026	1	07/18/24 11:19	07/19/24 14:35	207-08-9	
Chrysene	**0.055**	mg/kg	0.0057	0.0039	1	07/18/24 11:19	07/19/24 14:35	218-01-9	
Dibenz(a,h)anthracene	**0.014**	mg/kg	0.0057	0.0028	1	07/18/24 11:19	07/19/24 14:35	53-70-3	
Fluoranthene	**0.062**	mg/kg	0.0057	0.0040	1	07/18/24 11:19	07/19/24 14:35	206-44-0	
Fluorene	**0.0096**	mg/kg	0.0057	0.0022	1	07/18/24 11:19	07/19/24 14:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.037**	mg/kg	0.0057	0.0029	1	07/18/24 11:19	07/19/24 14:35	193-39-5	
1-Methylnaphthalene	**0.026**	mg/kg	0.0057	0.0023	1	07/18/24 11:19	07/19/24 14:35	90-12-0	
2-Methylnaphthalene	**0.050**	mg/kg	0.0057	0.0053	1	07/18/24 11:19	07/19/24 14:35	91-57-6	
Naphthalene	**0.016**	mg/kg	0.0057	0.0052	1	07/18/24 11:19	07/19/24 14:35	91-20-3	
Phenanthrene	**0.031**	mg/kg	0.0057	0.0041	1	07/18/24 11:19	07/19/24 14:35	85-01-8	
Pyrene	**0.076**	mg/kg	0.0057	0.0039	1	07/18/24 11:19	07/19/24 14:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	16-93		1	07/18/24 11:19	07/19/24 14:35	321-60-8	
p-Terphenyl-d14 (S)	58	%.	19-115		1	07/18/24 11:19	07/19/24 14:35	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**14.7**	%	0.10	0.10	1		07/22/24 16:08		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 (5-7') **Lab ID: 50377912019** Collected: 07/10/24 09:45 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0025**	mg/kg	0.0063	0.0025	1	07/18/24 11:19	07/19/24 14:50	83-32-9	
Acenaphthylene	**<0.0024**	mg/kg	0.0063	0.0024	1	07/18/24 11:19	07/19/24 14:50	208-96-8	
Anthracene	**<0.0031**	mg/kg	0.0063	0.0031	1	07/18/24 11:19	07/19/24 14:50	120-12-7	
Benzo(a)anthracene	**<0.0018**	mg/kg	0.0063	0.0018	1	07/18/24 11:19	07/19/24 14:50	56-55-3	
Benzo(a)pyrene	**<0.0037**	mg/kg	0.0063	0.0037	1	07/18/24 11:19	07/19/24 14:50	50-32-8	
Benzo(b)fluoranthene	**<0.0035**	mg/kg	0.0063	0.0035	1	07/18/24 11:19	07/19/24 14:50	205-99-2	
Benzo(g,h,i)perylene	**<0.0037**	mg/kg	0.0063	0.0037	1	07/18/24 11:19	07/19/24 14:50	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0063	0.0029	1	07/18/24 11:19	07/19/24 14:50	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.0063	0.0043	1	07/18/24 11:19	07/19/24 14:50	218-01-9	
Dibenz(a,h)anthracene	**<0.0031**	mg/kg	0.0063	0.0031	1	07/18/24 11:19	07/19/24 14:50	53-70-3	
Fluoranthene	**<0.0044**	mg/kg	0.0063	0.0044	1	07/18/24 11:19	07/19/24 14:50	206-44-0	
Fluorene	**<0.0025**	mg/kg	0.0063	0.0025	1	07/18/24 11:19	07/19/24 14:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0032**	mg/kg	0.0063	0.0032	1	07/18/24 11:19	07/19/24 14:50	193-39-5	
1-Methylnaphthalene	**0.032**	mg/kg	0.0063	0.0025	1	07/18/24 11:19	07/19/24 14:50	90-12-0	
2-Methylnaphthalene	**0.040**	mg/kg	0.0063	0.0059	1	07/18/24 11:19	07/19/24 14:50	91-57-6	
Naphthalene	**<0.0058**	mg/kg	0.0063	0.0058	1	07/18/24 11:19	07/19/24 14:50	91-20-3	
Phenanthrene	**<0.0045**	mg/kg	0.0063	0.0045	1	07/18/24 11:19	07/19/24 14:50	85-01-8	
Pyrene	**<0.0043**	mg/kg	0.0063	0.0043	1	07/18/24 11:19	07/19/24 14:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%.	16-93		1	07/18/24 11:19	07/19/24 14:50	321-60-8	
p-Terphenyl-d14 (S)	50	%.	19-115		1	07/18/24 11:19	07/19/24 14:50	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**22.9**	%	0.10	0.10	1		07/23/24 13:39		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 (0-2') **Lab ID: 50377912020** Collected: 07/10/24 09:20 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
	Initial Volume/Weight: 15.7 g Final Volume/Weight: 1 mL								
	Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.011**	mg/kg	0.026	0.011	5	07/18/24 11:19	07/19/24 15:04	83-32-9	
Acenaphthylene	**<0.010**	mg/kg	0.026	0.010	5	07/18/24 11:19	07/19/24 15:04	208-96-8	
Anthracene	**0.037**	mg/kg	0.026	0.013	5	07/18/24 11:19	07/19/24 15:04	120-12-7	
Benzo(a)anthracene	**0.086**	mg/kg	0.026	0.0075	5	07/18/24 11:19	07/19/24 15:04	56-55-3	
Benzo(a)pyrene	**0.11**	mg/kg	0.026	0.016	5	07/18/24 11:19	07/19/24 15:04	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.026	0.015	5	07/18/24 11:19	07/19/24 15:04	205-99-2	
Benzo(g,h,i)perylene	**0.062**	mg/kg	0.026	0.016	5	07/18/24 11:19	07/19/24 15:04	191-24-2	
Benzo(k)fluoranthene	**0.039**	mg/kg	0.026	0.012	5	07/18/24 11:19	07/19/24 15:04	207-08-9	
Chrysene	**0.16**	mg/kg	0.026	0.018	5	07/18/24 11:19	07/19/24 15:04	218-01-9	
Dibenz(a,h)anthracene	**<0.013**	mg/kg	0.026	0.013	5	07/18/24 11:19	07/19/24 15:04	53-70-3	
Fluoranthene	**0.22**	mg/kg	0.026	0.018	5	07/18/24 11:19	07/19/24 15:04	206-44-0	
Fluorene	**0.040**	mg/kg	0.026	0.010	5	07/18/24 11:19	07/19/24 15:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.055**	mg/kg	0.026	0.013	5	07/18/24 11:19	07/19/24 15:04	193-39-5	
1-Methylnaphthalene	**0.038**	mg/kg	0.026	0.011	5	07/18/24 11:19	07/19/24 15:04	90-12-0	
2-Methylnaphthalene	**0.035**	mg/kg	0.026	0.025	5	07/18/24 11:19	07/19/24 15:04	91-57-6	
Naphthalene	**0.12**	mg/kg	0.026	0.024	5	07/18/24 11:19	07/19/24 15:04	91-20-3	ED,R1
Phenanthrene	**0.27**	mg/kg	0.026	0.019	5	07/18/24 11:19	07/19/24 15:04	85-01-8	R1
Pyrene	**0.27**	mg/kg	0.026	0.018	5	07/18/24 11:19	07/19/24 15:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%.	16-93		5	07/18/24 11:19	07/19/24 15:04	321-60-8	
p-Terphenyl-d14 (S)	49	%.	19-115		5	07/18/24 11:19	07/19/24 15:04	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G								
	Pace Analytical Services - Indianapolis								
Percent Moisture	**9.8**	%	0.10	0.10	1		07/23/24 13:39		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 (5-7') **Lab ID: 50377912021** Collected: 07/10/24 09:25 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.4 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0025**	mg/kg	0.0062	0.0025	1	07/18/24 11:19	07/19/24 15:47	83-32-9	
Acenaphthylene	**<0.0023**	mg/kg	0.0062	0.0023	1	07/18/24 11:19	07/19/24 15:47	208-96-8	
Anthracene	**<0.0031**	mg/kg	0.0062	0.0031	1	07/18/24 11:19	07/19/24 15:47	120-12-7	
Benzo(a)anthracene	**<0.0018**	mg/kg	0.0062	0.0018	1	07/18/24 11:19	07/19/24 15:47	56-55-3	
Benzo(a)pyrene	**<0.0037**	mg/kg	0.0062	0.0037	1	07/18/24 11:19	07/19/24 15:47	50-32-8	
Benzo(b)fluoranthene	**<0.0034**	mg/kg	0.0062	0.0034	1	07/18/24 11:19	07/19/24 15:47	205-99-2	
Benzo(g,h,i)perylene	**<0.0037**	mg/kg	0.0062	0.0037	1	07/18/24 11:19	07/19/24 15:47	191-24-2	
Benzo(k)fluoranthene	**<0.0029**	mg/kg	0.0062	0.0029	1	07/18/24 11:19	07/19/24 15:47	207-08-9	
Chrysene	**<0.0043**	mg/kg	0.0062	0.0043	1	07/18/24 11:19	07/19/24 15:47	218-01-9	
Dibenz(a,h)anthracene	**<0.0030**	mg/kg	0.0062	0.0030	1	07/18/24 11:19	07/19/24 15:47	53-70-3	
Fluoranthene	**<0.0043**	mg/kg	0.0062	0.0043	1	07/18/24 11:19	07/19/24 15:47	206-44-0	
Fluorene	**<0.0024**	mg/kg	0.0062	0.0024	1	07/18/24 11:19	07/19/24 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0032**	mg/kg	0.0062	0.0032	1	07/18/24 11:19	07/19/24 15:47	193-39-5	
1-Methylnaphthalene	**<0.0025**	mg/kg	0.0062	0.0025	1	07/18/24 11:19	07/19/24 15:47	90-12-0	
2-Methylnaphthalene	**<0.0058**	mg/kg	0.0062	0.0058	1	07/18/24 11:19	07/19/24 15:47	91-57-6	
Naphthalene	**<0.0057**	mg/kg	0.0062	0.0057	1	07/18/24 11:19	07/19/24 15:47	91-20-3	
Phenanthrene	**<0.0045**	mg/kg	0.0062	0.0045	1	07/18/24 11:19	07/19/24 15:47	85-01-8	
Pyrene	**<0.0043**	mg/kg	0.0062	0.0043	1	07/18/24 11:19	07/19/24 15:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	16-93		1	07/18/24 11:19	07/19/24 15:47	321-60-8	
p-Terphenyl-d14 (S)	75	%.	19-115		1	07/18/24 11:19	07/19/24 15:47	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**21.4**	%	0.10	0.10	1		07/23/24 13:39		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 (2-4') **Lab ID: 50377912022** Collected: 07/10/24 09:20 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Initial Volume/Weight: 15.5 g Final Volume/Weight: 1 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.0024**	mg/kg	0.0059	0.0024	1	07/18/24 11:19	07/19/24 16:01	83-32-9	
Acenaphthylene	**<0.0022**	mg/kg	0.0059	0.0022	1	07/18/24 11:19	07/19/24 16:01	208-96-8	
Anthracene	**<0.0030**	mg/kg	0.0059	0.0030	1	07/18/24 11:19	07/19/24 16:01	120-12-7	
Benzo(a)anthracene	**<0.0017**	mg/kg	0.0059	0.0017	1	07/18/24 11:19	07/19/24 16:01	56-55-3	
Benzo(a)pyrene	**<0.0035**	mg/kg	0.0059	0.0035	1	07/18/24 11:19	07/19/24 16:01	50-32-8	
Benzo(b)fluoranthene	**<0.0033**	mg/kg	0.0059	0.0033	1	07/18/24 11:19	07/19/24 16:01	205-99-2	
Benzo(g,h,i)perylene	**<0.0035**	mg/kg	0.0059	0.0035	1	07/18/24 11:19	07/19/24 16:01	191-24-2	
Benzo(k)fluoranthene	**<0.0027**	mg/kg	0.0059	0.0027	1	07/18/24 11:19	07/19/24 16:01	207-08-9	
Chrysene	**<0.0041**	mg/kg	0.0059	0.0041	1	07/18/24 11:19	07/19/24 16:01	218-01-9	
Dibenz(a,h)anthracene	**<0.0029**	mg/kg	0.0059	0.0029	1	07/18/24 11:19	07/19/24 16:01	53-70-3	
Fluoranthene	**<0.0041**	mg/kg	0.0059	0.0041	1	07/18/24 11:19	07/19/24 16:01	206-44-0	
Fluorene	**<0.0023**	mg/kg	0.0059	0.0023	1	07/18/24 11:19	07/19/24 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0030**	mg/kg	0.0059	0.0030	1	07/18/24 11:19	07/19/24 16:01	193-39-5	
1-Methylnaphthalene	**<0.0024**	mg/kg	0.0059	0.0024	1	07/18/24 11:19	07/19/24 16:01	90-12-0	
2-Methylnaphthalene	**<0.0056**	mg/kg	0.0059	0.0056	1	07/18/24 11:19	07/19/24 16:01	91-57-6	
Naphthalene	**<0.0055**	mg/kg	0.0059	0.0055	1	07/18/24 11:19	07/19/24 16:01	91-20-3	
Phenanthrene	**<0.0043**	mg/kg	0.0059	0.0043	1	07/18/24 11:19	07/19/24 16:01	85-01-8	
Pyrene	**<0.0041**	mg/kg	0.0059	0.0041	1	07/18/24 11:19	07/19/24 16:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%.	16-93		1	07/18/24 11:19	07/19/24 16:01	321-60-8	
p-Terphenyl-d14 (S)	63	%.	19-115		1	07/18/24 11:19	07/19/24 16:01	1718-51-0	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis								
Percent Moisture	**18.4**	%	0.10	0.10	1		07/23/24 13:39		N2

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-3R **Lab ID: 50377912023** Collected: 07/10/24 16:30 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**7.3J**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:27	7440-38-2	
Lead	**10.6**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:27	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 **Lab ID: 50377912024** Collected: 07/10/24 15:35 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**23.3**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:29	7440-38-2	
Lead	**30.1**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:29	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 40.6 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.31J**	ug/L	0.99	0.093	1	07/15/24 12:20	07/15/24 23:10	83-32-9	
Acenaphthylene	**0.077J**	ug/L	0.99	0.072	1	07/15/24 12:20	07/15/24 23:10	208-96-8	
Anthracene	**<0.080**	ug/L	0.099	0.080	1	07/15/24 12:20	07/15/24 23:10	120-12-7	
Benzo(a)anthracene	**<0.064**	ug/L	0.099	0.064	1	07/15/24 12:20	07/15/24 23:10	56-55-3	
Benzo(a)pyrene	**<0.069**	ug/L	0.099	0.069	1	07/15/24 12:20	07/15/24 23:10	50-32-8	
Benzo(b)fluoranthene	**<0.064**	ug/L	0.099	0.064	1	07/15/24 12:20	07/15/24 23:10	205-99-2	
Benzo(g,h,i)perylene	**<0.090**	ug/L	0.099	0.090	1	07/15/24 12:20	07/15/24 23:10	191-24-2	
Benzo(k)fluoranthene	**<0.067**	ug/L	0.099	0.067	1	07/15/24 12:20	07/15/24 23:10	207-08-9	
Chrysene	**<0.060**	ug/L	0.49	0.060	1	07/15/24 12:20	07/15/24 23:10	218-01-9	
Dibenz(a,h)anthracene	**<0.075**	ug/L	0.099	0.075	1	07/15/24 12:20	07/15/24 23:10	53-70-3	
Fluoranthene	**0.087J**	ug/L	0.99	0.073	1	07/15/24 12:20	07/15/24 23:10	206-44-0	
Fluorene	**0.54J**	ug/L	0.99	0.095	1	07/15/24 12:20	07/15/24 23:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.057**	ug/L	0.099	0.057	1	07/15/24 12:20	07/15/24 23:10	193-39-5	
1-Methylnaphthalene	**20.2**	ug/L	0.99	0.086	1	07/15/24 12:20	07/15/24 23:10	90-12-0	
2-Methylnaphthalene	**14.1**	ug/L	0.99	0.097	1	07/15/24 12:20	07/15/24 23:10	91-57-6	
Naphthalene	**<0.40**	ug/L	0.99	0.40	1	07/15/24 12:20	07/15/24 23:10	91-20-3	
Phenanthrene	**0.63J**	ug/L	0.99	0.10	1	07/15/24 12:20	07/15/24 23:10	85-01-8	
Pyrene	**<0.098**	ug/L	0.99	0.098	1	07/15/24 12:20	07/15/24 23:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85	%.	43-129		1	07/15/24 12:20	07/15/24 23:10	321-60-8	
p-Terphenyl-d14 (S)	125	%.	64-162		1	07/15/24 12:20	07/15/24 23:10	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/18/24 20:04	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/18/24 20:04	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/18/24 20:04	107-13-1	
Benzene	**228**	ug/L	5.0	0.37	1		07/18/24 20:04	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/18/24 20:04	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/18/24 20:04	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/18/24 20:04	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/18/24 20:04	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 20:04	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/18/24 20:04	78-93-3	
n-Butylbenzene	**5.2**	ug/L	5.0	0.35	1		07/18/24 20:04	104-51-8	
sec-Butylbenzene	**8.7**	ug/L	5.0	0.36	1		07/18/24 20:04	135-98-8	
tert-Butylbenzene	**0.82J**	ug/L	5.0	0.33	1		07/18/24 20:04	98-06-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 **Lab ID: 50377912024** Collected: 07/10/24 15:35 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/18/24 20:04	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/18/24 20:04	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/18/24 20:04	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 20:04	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/18/24 20:04	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 20:04	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:04	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:04	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/18/24 20:04	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/18/24 20:04	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:04	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:04	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:04	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/18/24 20:04	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 20:04	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:04	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:04	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/18/24 20:04	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:04	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/18/24 20:04	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/18/24 20:04	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/18/24 20:04	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/18/24 20:04	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:04	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/18/24 20:04	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/18/24 20:04	10061-02-6	
Ethylbenzene	**6.3**	ug/L	5.0	0.36	1		07/18/24 20:04	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/18/24 20:04	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/18/24 20:04	87-68-3	
n-Hexane	**85.0**	ug/L	5.0	0.50	1		07/18/24 20:04	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/18/24 20:04	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/18/24 20:04	74-88-4	
Isopropylbenzene (Cumene)	**52.5**	ug/L	5.0	0.40	1		07/18/24 20:04	98-82-8	
p-Isopropyltoluene	**3.7J**	ug/L	5.0	0.32	1		07/18/24 20:04	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/18/24 20:04	75-09-2	
1-Methylnaphthalene	**16.7**	ug/L	10.0	3.3	1		07/18/24 20:04	90-12-0	
2-Methylnaphthalene	**11.5**	ug/L	10.0	3.2	1		07/18/24 20:04	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/18/24 20:04	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/18/24 20:04	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/18/24 20:04	91-20-3	
n-Propylbenzene	**48.2**	ug/L	5.0	0.35	1		07/18/24 20:04	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/18/24 20:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/18/24 20:04	630-20-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 **Lab ID: 50377912024** Collected: 07/10/24 15:35 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:04	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/18/24 20:04	127-18-4	
Toluene	**14.0**	ug/L	5.0	1.3	1		07/18/24 20:04	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/18/24 20:04	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/18/24 20:04	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/18/24 20:04	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 20:04	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/18/24 20:04	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/18/24 20:04	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 20:04	96-18-4	
1,2,4-Trimethylbenzene	**0.84J**	ug/L	5.0	0.41	1		07/18/24 20:04	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/L	5.0	0.36	1		07/18/24 20:04	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/18/24 20:04	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/18/24 20:04	75-01-4	
Xylene (Total)	**28.8**	ug/L	10.0	1.3	1		07/18/24 20:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%.	82-128		1		07/18/24 20:04	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-124		1		07/18/24 20:04	460-00-4	
Toluene-d8 (S)	109	%.	73-122		1		07/18/24 20:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 **Lab ID: 50377912025** Collected: 07/10/24 16:20 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**58.3**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:31	7440-38-2	
Lead	**118**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:31	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 38.9 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.46J**	ug/L	1.0	0.097	1	07/15/24 12:20	07/15/24 23:21	83-32-9	
Acenaphthylene	**0.30J**	ug/L	1.0	0.075	1	07/15/24 12:20	07/15/24 23:21	208-96-8	
Anthracene	**0.13**	ug/L	0.10	0.083	1	07/15/24 12:20	07/15/24 23:21	120-12-7	
Benzo(a)anthracene	**0.36**	ug/L	0.10	0.067	1	07/15/24 12:20	07/15/24 23:21	56-55-3	
Benzo(a)pyrene	**<0.072**	ug/L	0.10	0.072	1	07/15/24 12:20	07/15/24 23:21	50-32-8	
Benzo(b)fluoranthene	**0.10J**	ug/L	0.10	0.067	1	07/15/24 12:20	07/15/24 23:21	205-99-2	
Benzo(g,h,i)perylene	**<0.094**	ug/L	0.10	0.094	1	07/15/24 12:20	07/15/24 23:21	191-24-2	
Benzo(k)fluoranthene	**<0.070**	ug/L	0.10	0.070	1	07/15/24 12:20	07/15/24 23:21	207-08-9	
Chrysene	**0.64**	ug/L	0.51	0.063	1	07/15/24 12:20	07/15/24 23:21	218-01-9	
Dibenz(a,h)anthracene	**<0.078**	ug/L	0.10	0.078	1	07/15/24 12:20	07/15/24 23:21	53-70-3	
Fluoranthene	**0.25J**	ug/L	1.0	0.076	1	07/15/24 12:20	07/15/24 23:21	206-44-0	
Fluorene	**0.52J**	ug/L	1.0	0.099	1	07/15/24 12:20	07/15/24 23:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.060**	ug/L	0.10	0.060	1	07/15/24 12:20	07/15/24 23:21	193-39-5	
1-Methylnaphthalene	**26.2**	ug/L	1.0	0.089	1	07/15/24 12:20	07/15/24 23:21	90-12-0	
2-Methylnaphthalene	**31.4**	ug/L	1.0	0.10	1	07/15/24 12:20	07/15/24 23:21	91-57-6	
Naphthalene	**13.7**	ug/L	1.0	0.42	1	07/15/24 12:20	07/15/24 23:21	91-20-3	
Phenanthrene	**1.1**	ug/L	1.0	0.11	1	07/15/24 12:20	07/15/24 23:21	85-01-8	
Pyrene	**0.35J**	ug/L	1.0	0.10	1	07/15/24 12:20	07/15/24 23:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	98	%.	43-129		1	07/15/24 12:20	07/15/24 23:21	321-60-8	
p-Terphenyl-d14 (S)	123	%.	64-162		1	07/15/24 12:20	07/15/24 23:21	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/18/24 20:34	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/18/24 20:34	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/18/24 20:34	107-13-1	
Benzene	**540**	ug/L	50.0	3.7	10		07/19/24 17:55	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/18/24 20:34	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/18/24 20:34	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/18/24 20:34	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/18/24 20:34	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 20:34	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/18/24 20:34	78-93-3	
n-Butylbenzene	**5.7**	ug/L	5.0	0.35	1		07/18/24 20:34	104-51-8	
sec-Butylbenzene	**6.1**	ug/L	5.0	0.36	1		07/18/24 20:34	135-98-8	
tert-Butylbenzene	**0.48J**	ug/L	5.0	0.33	1		07/18/24 20:34	98-06-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 **Lab ID: 50377912025** Collected: 07/10/24 16:20 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/18/24 20:34	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/18/24 20:34	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/18/24 20:34	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 20:34	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/18/24 20:34	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 20:34	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:34	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:34	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/18/24 20:34	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/18/24 20:34	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:34	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:34	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:34	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/18/24 20:34	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 20:34	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:34	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:34	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/18/24 20:34	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 20:34	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/18/24 20:34	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/18/24 20:34	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/18/24 20:34	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/18/24 20:34	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/18/24 20:34	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/18/24 20:34	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/18/24 20:34	10061-02-6	
Ethylbenzene	**26.3**	ug/L	5.0	0.36	1		07/18/24 20:34	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/18/24 20:34	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/18/24 20:34	87-68-3	
n-Hexane	**142**	ug/L	5.0	0.50	1		07/18/24 20:34	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/18/24 20:34	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/18/24 20:34	74-88-4	
Isopropylbenzene (Cumene)	**25.0**	ug/L	5.0	0.40	1		07/18/24 20:34	98-82-8	
p-Isopropyltoluene	**4.4J**	ug/L	5.0	0.32	1		07/18/24 20:34	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/18/24 20:34	75-09-2	
1-Methylnaphthalene	**23.0**	ug/L	10.0	3.3	1		07/18/24 20:34	90-12-0	
2-Methylnaphthalene	**27.2**	ug/L	10.0	3.2	1		07/18/24 20:34	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/18/24 20:34	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/18/24 20:34	1634-04-4	
Naphthalene	**8.8**	ug/L	1.2	0.88	1		07/18/24 20:34	91-20-3	
n-Propylbenzene	**35.0**	ug/L	5.0	0.35	1		07/18/24 20:34	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/18/24 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/18/24 20:34	630-20-6	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 **Lab ID: 50377912025** Collected: 07/10/24 16:20 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/18/24 20:34	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/18/24 20:34	127-18-4	
Toluene	**14.7**	ug/L	5.0	1.3	1		07/18/24 20:34	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/18/24 20:34	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/18/24 20:34	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/18/24 20:34	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 20:34	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/18/24 20:34	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/18/24 20:34	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 20:34	96-18-4	
1,2,4-Trimethylbenzene	**22.9**	ug/L	5.0	0.41	1		07/18/24 20:34	95-63-6	
1,3,5-Trimethylbenzene	**11.7**	ug/L	5.0	0.36	1		07/18/24 20:34	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/18/24 20:34	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/18/24 20:34	75-01-4	
Xylene (Total)	**59.9**	ug/L	10.0	1.3	1		07/18/24 20:34	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%.	82-128		1		07/18/24 20:34	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124		1		07/18/24 20:34	460-00-4	
Toluene-d8 (S)	103	%.	73-122		1		07/18/24 20:34	2037-26-5	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 **Lab ID: 50377912026** Collected: 07/10/24 15:48 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**20.8**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:32	7440-38-2	
Lead	**16.3**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:32	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 40 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.36J**	ug/L	1.0	0.094	1	07/15/24 12:20	07/15/24 23:32	83-32-9	
Acenaphthylene	**0.086J**	ug/L	1.0	0.073	1	07/15/24 12:20	07/15/24 23:32	208-96-8	
Anthracene	**<0.081**	ug/L	0.10	0.081	1	07/15/24 12:20	07/15/24 23:32	120-12-7	
Benzo(a)anthracene	**<0.065**	ug/L	0.10	0.065	1	07/15/24 12:20	07/15/24 23:32	56-55-3	
Benzo(a)pyrene	**<0.070**	ug/L	0.10	0.070	1	07/15/24 12:20	07/15/24 23:32	50-32-8	
Benzo(b)fluoranthene	**<0.065**	ug/L	0.10	0.065	1	07/15/24 12:20	07/15/24 23:32	205-99-2	
Benzo(g,h,i)perylene	**<0.091**	ug/L	0.10	0.091	1	07/15/24 12:20	07/15/24 23:32	191-24-2	
Benzo(k)fluoranthene	**<0.068**	ug/L	0.10	0.068	1	07/15/24 12:20	07/15/24 23:32	207-08-9	
Chrysene	**<0.061**	ug/L	0.50	0.061	1	07/15/24 12:20	07/15/24 23:32	218-01-9	
Dibenz(a,h)anthracene	**<0.076**	ug/L	0.10	0.076	1	07/15/24 12:20	07/15/24 23:32	53-70-3	
Fluoranthene	**<0.074**	ug/L	1.0	0.074	1	07/15/24 12:20	07/15/24 23:32	206-44-0	
Fluorene	**0.28J**	ug/L	1.0	0.096	1	07/15/24 12:20	07/15/24 23:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.058**	ug/L	0.10	0.058	1	07/15/24 12:20	07/15/24 23:32	193-39-5	
1-Methylnaphthalene	**18.6**	ug/L	1.0	0.087	1	07/15/24 12:20	07/15/24 23:32	90-12-0	
2-Methylnaphthalene	**12.8**	ug/L	1.0	0.098	1	07/15/24 12:20	07/15/24 23:32	91-57-6	
Naphthalene	**<0.41**	ug/L	1.0	0.41	1	07/15/24 12:20	07/15/24 23:32	91-20-3	
Phenanthrene	**0.24J**	ug/L	1.0	0.10	1	07/15/24 12:20	07/15/24 23:32	85-01-8	
Pyrene	**<0.099**	ug/L	1.0	0.099	1	07/15/24 12:20	07/15/24 23:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85	%.	43-129		1	07/15/24 12:20	07/15/24 23:32	321-60-8	
p-Terphenyl-d14 (S)	116	%.	64-162		1	07/15/24 12:20	07/15/24 23:32	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/18/24 21:04	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/18/24 21:04	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/18/24 21:04	107-13-1	
Benzene	**42.5**	ug/L	5.0	0.37	1		07/18/24 21:04	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/18/24 21:04	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/18/24 21:04	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/18/24 21:04	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/18/24 21:04	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 21:04	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/18/24 21:04	78-93-3	
n-Butylbenzene	**2.2J**	ug/L	5.0	0.35	1		07/18/24 21:04	104-51-8	
sec-Butylbenzene	**4.7J**	ug/L	5.0	0.36	1		07/18/24 21:04	135-98-8	
tert-Butylbenzene	**0.49J**	ug/L	5.0	0.33	1		07/18/24 21:04	98-06-6	

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(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 **Lab ID: 50377912026** Collected: 07/10/24 15:48 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/18/24 21:04	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/18/24 21:04	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/18/24 21:04	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 21:04	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/18/24 21:04	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 21:04	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:04	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:04	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/18/24 21:04	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/18/24 21:04	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:04	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:04	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:04	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/18/24 21:04	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 21:04	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:04	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:04	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/18/24 21:04	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:04	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/18/24 21:04	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/18/24 21:04	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/18/24 21:04	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/18/24 21:04	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:04	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/18/24 21:04	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/18/24 21:04	10061-02-6	
Ethylbenzene	**1.5J**	ug/L	5.0	0.36	1		07/18/24 21:04	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/18/24 21:04	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/18/24 21:04	87-68-3	
n-Hexane	**28.3**	ug/L	5.0	0.50	1		07/18/24 21:04	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/18/24 21:04	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/18/24 21:04	74-88-4	
Isopropylbenzene (Cumene)	**15.1**	ug/L	5.0	0.40	1		07/18/24 21:04	98-82-8	
p-Isopropyltoluene	**0.72J**	ug/L	5.0	0.32	1		07/18/24 21:04	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/18/24 21:04	75-09-2	
1-Methylnaphthalene	**14.4**	ug/L	10.0	3.3	1		07/18/24 21:04	90-12-0	
2-Methylnaphthalene	**9.7J**	ug/L	10.0	3.2	1		07/18/24 21:04	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/18/24 21:04	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/18/24 21:04	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/18/24 21:04	91-20-3	
n-Propylbenzene	**13.3**	ug/L	5.0	0.35	1		07/18/24 21:04	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/18/24 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/18/24 21:04	630-20-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 **Lab ID: 50377912026** Collected: 07/10/24 15:48 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:04	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/18/24 21:04	127-18-4	
Toluene	**3.5J**	ug/L	5.0	1.3	1		07/18/24 21:04	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/18/24 21:04	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/18/24 21:04	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/18/24 21:04	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 21:04	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/18/24 21:04	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/18/24 21:04	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 21:04	96-18-4	
1,2,4-Trimethylbenzene	**0.57J**	ug/L	5.0	0.41	1		07/18/24 21:04	95-63-6	
1,3,5-Trimethylbenzene	**0.50J**	ug/L	5.0	0.36	1		07/18/24 21:04	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/18/24 21:04	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/18/24 21:04	75-01-4	
Xylene (Total)	**13.0**	ug/L	10.0	1.3	1		07/18/24 21:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%.	82-128		1		07/18/24 21:04	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124		1		07/18/24 21:04	460-00-4	
Toluene-d8 (S)	99	%.	73-122		1		07/18/24 21:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 **Lab ID: 50377912027** Collected: 07/10/24 13:56 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 10 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**101**	ug/L	50.0	21.6	1	07/19/24 08:05	07/20/24 01:34	7440-38-2	
Lead	**240**	ug/L	50.0	10.2	1	07/19/24 08:05	07/20/24 01:34	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 40.4 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**0.13J**	ug/L	0.99	0.093	1	07/15/24 12:20	07/15/24 23:42	83-32-9	
Acenaphthylene	**<0.072**	ug/L	0.99	0.072	1	07/15/24 12:20	07/15/24 23:42	208-96-8	
Anthracene	**<0.080**	ug/L	0.099	0.080	1	07/15/24 12:20	07/15/24 23:42	120-12-7	
Benzo(a)anthracene	**<0.064**	ug/L	0.099	0.064	1	07/15/24 12:20	07/15/24 23:42	56-55-3	
Benzo(a)pyrene	**<0.069**	ug/L	0.099	0.069	1	07/15/24 12:20	07/15/24 23:42	50-32-8	
Benzo(b)fluoranthene	**<0.064**	ug/L	0.099	0.064	1	07/15/24 12:20	07/15/24 23:42	205-99-2	
Benzo(g,h,i)perylene	**<0.090**	ug/L	0.099	0.090	1	07/15/24 12:20	07/15/24 23:42	191-24-2	
Benzo(k)fluoranthene	**<0.067**	ug/L	0.099	0.067	1	07/15/24 12:20	07/15/24 23:42	207-08-9	
Chrysene	**<0.060**	ug/L	0.50	0.060	1	07/15/24 12:20	07/15/24 23:42	218-01-9	
Dibenz(a,h)anthracene	**<0.075**	ug/L	0.099	0.075	1	07/15/24 12:20	07/15/24 23:42	53-70-3	
Fluoranthene	**<0.073**	ug/L	0.99	0.073	1	07/15/24 12:20	07/15/24 23:42	206-44-0	
Fluorene	**<0.095**	ug/L	0.99	0.095	1	07/15/24 12:20	07/15/24 23:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.057**	ug/L	0.099	0.057	1	07/15/24 12:20	07/15/24 23:42	193-39-5	
1-Methylnaphthalene	**12.5**	ug/L	0.99	0.086	1	07/15/24 12:20	07/15/24 23:42	90-12-0	
2-Methylnaphthalene	**14.1**	ug/L	0.99	0.097	1	07/15/24 12:20	07/15/24 23:42	91-57-6	
Naphthalene	**2.6**	ug/L	0.99	0.41	1	07/15/24 12:20	07/15/24 23:42	91-20-3	
Phenanthrene	**<0.10**	ug/L	0.99	0.10	1	07/15/24 12:20	07/15/24 23:42	85-01-8	
Pyrene	**<0.098**	ug/L	0.99	0.098	1	07/15/24 12:20	07/15/24 23:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%.	43-129		1	07/15/24 12:20	07/15/24 23:42	321-60-8	
p-Terphenyl-d14 (S)	100	%.	64-162		1	07/15/24 12:20	07/15/24 23:42	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/19/24 02:39	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/19/24 02:39	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/19/24 02:39	107-13-1	
Benzene	**241**	ug/L	5.0	0.37	1		07/19/24 02:39	71-43-2	M1
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/19/24 02:39	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/24 02:39	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/19/24 02:39	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/19/24 02:39	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 02:39	74-83-9	
2-Butanone (MEK)	**40.4**	ug/L	25.0	11.8	1		07/19/24 02:39	78-93-3	
n-Butylbenzene	**3.0J**	ug/L	5.0	0.35	1		07/19/24 02:39	104-51-8	
sec-Butylbenzene	**3.5J**	ug/L	5.0	0.36	1		07/19/24 02:39	135-98-8	
tert-Butylbenzene	**0.57J**	ug/L	5.0	0.33	1		07/19/24 02:39	98-06-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 **Lab ID: 50377912027** Collected: 07/10/24 13:56 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/19/24 02:39	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/19/24 02:39	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/19/24 02:39	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 02:39	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/19/24 02:39	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 02:39	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 02:39	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 02:39	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/19/24 02:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/19/24 02:39	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/19/24 02:39	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 02:39	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 02:39	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 02:39	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/19/24 02:39	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 02:39	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 02:39	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 02:39	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/19/24 02:39	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 02:39	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/19/24 02:39	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/19/24 02:39	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/19/24 02:39	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/19/24 02:39	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/19/24 02:39	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/19/24 02:39	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/19/24 02:39	10061-02-6	
Ethylbenzene	**13.3**	ug/L	5.0	0.36	1		07/19/24 02:39	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/19/24 02:39	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/19/24 02:39	87-68-3	
n-Hexane	**106**	ug/L	5.0	0.50	1		07/19/24 02:39	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/19/24 02:39	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/19/24 02:39	74-88-4	
Isopropylbenzene (Cumene)	**14.8**	ug/L	5.0	0.40	1		07/19/24 02:39	98-82-8	
p-Isopropyltoluene	**2.3J**	ug/L	5.0	0.32	1		07/19/24 02:39	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/19/24 02:39	75-09-2	
1-Methylnaphthalene	**9.2J**	ug/L	10.0	3.3	1		07/19/24 02:39	90-12-0	
2-Methylnaphthalene	**11.0**	ug/L	10.0	3.2	1		07/19/24 02:39	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/19/24 02:39	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/19/24 02:39	1634-04-4	
Naphthalene	**2.7**	ug/L	1.2	0.88	1		07/19/24 02:39	91-20-3	
n-Propylbenzene	**12.5**	ug/L	5.0	0.35	1		07/19/24 02:39	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/19/24 02:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/19/24 02:39	630-20-6	

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7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 **Lab ID: 50377912027** Collected: 07/10/24 13:56 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/19/24 02:39	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/19/24 02:39	127-18-4	
Toluene	**9.7**	ug/L	5.0	1.3	1		07/19/24 02:39	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/19/24 02:39	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/19/24 02:39	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/19/24 02:39	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 02:39	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/19/24 02:39	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/19/24 02:39	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 02:39	96-18-4	
1,2,4-Trimethylbenzene	**7.1**	ug/L	5.0	0.41	1		07/19/24 02:39	95-63-6	
1,3,5-Trimethylbenzene	**4.3J**	ug/L	5.0	0.36	1		07/19/24 02:39	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/19/24 02:39	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/19/24 02:39	75-01-4	
Xylene (Total)	**23.0**	ug/L	10.0	1.3	1		07/19/24 02:39	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%.	82-128		1		07/19/24 02:39	1868-53-7	H1,pH
4-Bromofluorobenzene (S)	100	%.	79-124		1		07/19/24 02:39	460-00-4	
Toluene-d8 (S)	101	%.	73-122		1		07/19/24 02:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 **Lab ID: 50377912028** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**27.9**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:40	7440-38-2	
Lead	**24.5**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:40	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 40.7 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.092**	ug/L	0.98	0.092	1	07/15/24 12:20	07/16/24 00:15	83-32-9	
Acenaphthylene	**<0.072**	ug/L	0.98	0.072	1	07/15/24 12:20	07/16/24 00:15	208-96-8	
Anthracene	**<0.080**	ug/L	0.098	0.080	1	07/15/24 12:20	07/16/24 00:15	120-12-7	
Benzo(a)anthracene	**<0.064**	ug/L	0.098	0.064	1	07/15/24 12:20	07/16/24 00:15	56-55-3	
Benzo(a)pyrene	**<0.069**	ug/L	0.098	0.069	1	07/15/24 12:20	07/16/24 00:15	50-32-8	
Benzo(b)fluoranthene	**<0.064**	ug/L	0.098	0.064	1	07/15/24 12:20	07/16/24 00:15	205-99-2	
Benzo(g,h,i)perylene	**<0.089**	ug/L	0.098	0.089	1	07/15/24 12:20	07/16/24 00:15	191-24-2	
Benzo(k)fluoranthene	**<0.067**	ug/L	0.098	0.067	1	07/15/24 12:20	07/16/24 00:15	207-08-9	
Chrysene	**<0.060**	ug/L	0.49	0.060	1	07/15/24 12:20	07/16/24 00:15	218-01-9	
Dibenz(a,h)anthracene	**<0.075**	ug/L	0.098	0.075	1	07/15/24 12:20	07/16/24 00:15	53-70-3	
Fluoranthene	**<0.073**	ug/L	0.98	0.073	1	07/15/24 12:20	07/16/24 00:15	206-44-0	
Fluorene	**<0.094**	ug/L	0.98	0.094	1	07/15/24 12:20	07/16/24 00:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.057**	ug/L	0.098	0.057	1	07/15/24 12:20	07/16/24 00:15	193-39-5	
1-Methylnaphthalene	**6.2**	ug/L	0.98	0.086	1	07/15/24 12:20	07/16/24 00:15	90-12-0	
2-Methylnaphthalene	**9.4**	ug/L	0.98	0.096	1	07/15/24 12:20	07/16/24 00:15	91-57-6	
Naphthalene	**<0.40**	ug/L	0.98	0.40	1	07/15/24 12:20	07/16/24 00:15	91-20-3	
Phenanthrene	**<0.10**	ug/L	0.98	0.10	1	07/15/24 12:20	07/16/24 00:15	85-01-8	
Pyrene	**<0.097**	ug/L	0.98	0.097	1	07/15/24 12:20	07/16/24 00:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	98	%.	43-129		1	07/15/24 12:20	07/16/24 00:15	321-60-8	
p-Terphenyl-d14 (S)	120	%.	64-162		1	07/15/24 12:20	07/16/24 00:15	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/18/24 21:35	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/18/24 21:35	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/18/24 21:35	107-13-1	
Benzene	**2.1J**	ug/L	5.0	0.37	1		07/18/24 21:35	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/18/24 21:35	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/18/24 21:35	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/18/24 21:35	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/18/24 21:35	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 21:35	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/18/24 21:35	78-93-3	
n-Butylbenzene	**2.4J**	ug/L	5.0	0.35	1		07/18/24 21:35	104-51-8	
sec-Butylbenzene	**2.4J**	ug/L	5.0	0.36	1		07/18/24 21:35	135-98-8	
tert-Butylbenzene	**0.44J**	ug/L	5.0	0.33	1		07/18/24 21:35	98-06-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 **Lab ID: 50377912028** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/18/24 21:35	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/18/24 21:35	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/18/24 21:35	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 21:35	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/18/24 21:35	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 21:35	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:35	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:35	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:35	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/18/24 21:35	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/18/24 21:35	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:35	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:35	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:35	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/18/24 21:35	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 21:35	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:35	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:35	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/18/24 21:35	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 21:35	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/18/24 21:35	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/18/24 21:35	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/18/24 21:35	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/18/24 21:35	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/18/24 21:35	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/18/24 21:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/18/24 21:35	10061-02-6	
Ethylbenzene	**22.4**	ug/L	5.0	0.36	1		07/18/24 21:35	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/18/24 21:35	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/18/24 21:35	87-68-3	
n-Hexane	**25.2**	ug/L	5.0	0.50	1		07/18/24 21:35	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/18/24 21:35	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/18/24 21:35	74-88-4	
Isopropylbenzene (Cumene)	**11.5**	ug/L	5.0	0.40	1		07/18/24 21:35	98-82-8	
p-Isopropyltoluene	**2.3J**	ug/L	5.0	0.32	1		07/18/24 21:35	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/18/24 21:35	75-09-2	
1-Methylnaphthalene	**5.5J**	ug/L	10.0	3.3	1		07/18/24 21:35	90-12-0	
2-Methylnaphthalene	**7.1J**	ug/L	10.0	3.2	1		07/18/24 21:35	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/18/24 21:35	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/18/24 21:35	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/18/24 21:35	91-20-3	
n-Propylbenzene	**13.5**	ug/L	5.0	0.35	1		07/18/24 21:35	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/18/24 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/18/24 21:35	630-20-6	

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 **Lab ID: 50377912028** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/18/24 21:35	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/18/24 21:35	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	1		07/18/24 21:35	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/18/24 21:35	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/18/24 21:35	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/18/24 21:35	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 21:35	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/18/24 21:35	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/18/24 21:35	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 21:35	96-18-4	
1,2,4-Trimethylbenzene	**10.6**	ug/L	5.0	0.41	1		07/18/24 21:35	95-63-6	
1,3,5-Trimethylbenzene	**3.4J**	ug/L	5.0	0.36	1		07/18/24 21:35	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/18/24 21:35	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/18/24 21:35	75-01-4	
Xylene (Total)	**6.5J**	ug/L	10.0	1.3	1		07/18/24 21:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%.	82-128		1		07/18/24 21:35	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-124		1		07/18/24 21:35	460-00-4	
Toluene-d8 (S)	100	%.	73-122		1		07/18/24 21:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 DUP **Lab ID: 50377912029** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**26.6**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:41	7440-38-2	
Lead	**22.5**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:41	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 38.9 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.097**	ug/L	1.0	0.097	1	07/15/24 12:20	07/16/24 00:25	83-32-9	
Acenaphthylene	**<0.075**	ug/L	1.0	0.075	1	07/15/24 12:20	07/16/24 00:25	208-96-8	
Anthracene	**<0.083**	ug/L	0.10	0.083	1	07/15/24 12:20	07/16/24 00:25	120-12-7	
Benzo(a)anthracene	**<0.067**	ug/L	0.10	0.067	1	07/15/24 12:20	07/16/24 00:25	56-55-3	
Benzo(a)pyrene	**<0.072**	ug/L	0.10	0.072	1	07/15/24 12:20	07/16/24 00:25	50-32-8	
Benzo(b)fluoranthene	**<0.067**	ug/L	0.10	0.067	1	07/15/24 12:20	07/16/24 00:25	205-99-2	
Benzo(g,h,i)perylene	**<0.094**	ug/L	0.10	0.094	1	07/15/24 12:20	07/16/24 00:25	191-24-2	
Benzo(k)fluoranthene	**<0.070**	ug/L	0.10	0.070	1	07/15/24 12:20	07/16/24 00:25	207-08-9	
Chrysene	**<0.063**	ug/L	0.51	0.063	1	07/15/24 12:20	07/16/24 00:25	218-01-9	
Dibenz(a,h)anthracene	**<0.078**	ug/L	0.10	0.078	1	07/15/24 12:20	07/16/24 00:25	53-70-3	
Fluoranthene	**<0.076**	ug/L	1.0	0.076	1	07/15/24 12:20	07/16/24 00:25	206-44-0	
Fluorene	**<0.099**	ug/L	1.0	0.099	1	07/15/24 12:20	07/16/24 00:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.060**	ug/L	0.10	0.060	1	07/15/24 12:20	07/16/24 00:25	193-39-5	
1-Methylnaphthalene	**5.9**	ug/L	1.0	0.089	1	07/15/24 12:20	07/16/24 00:25	90-12-0	
2-Methylnaphthalene	**8.8**	ug/L	1.0	0.10	1	07/15/24 12:20	07/16/24 00:25	91-57-6	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1	07/15/24 12:20	07/16/24 00:25	91-20-3	
Phenanthrene	**<0.11**	ug/L	1.0	0.11	1	07/15/24 12:20	07/16/24 00:25	85-01-8	
Pyrene	**<0.10**	ug/L	1.0	0.10	1	07/15/24 12:20	07/16/24 00:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	96	%.	43-129		1	07/15/24 12:20	07/16/24 00:25	321-60-8	
p-Terphenyl-d14 (S)	125	%.	64-162		1	07/15/24 12:20	07/16/24 00:25	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/18/24 22:05	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/18/24 22:05	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/18/24 22:05	107-13-1	
Benzene	**2.1J**	ug/L	5.0	0.37	1		07/18/24 22:05	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/18/24 22:05	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/18/24 22:05	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/18/24 22:05	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/18/24 22:05	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 22:05	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/18/24 22:05	78-93-3	
n-Butylbenzene	**2.4J**	ug/L	5.0	0.35	1		07/18/24 22:05	104-51-8	
sec-Butylbenzene	**2.6J**	ug/L	5.0	0.36	1		07/18/24 22:05	135-98-8	
tert-Butylbenzene	**0.49J**	ug/L	5.0	0.33	1		07/18/24 22:05	98-06-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 DUP **Lab ID: 50377912029** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/18/24 22:05	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/18/24 22:05	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/18/24 22:05	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 22:05	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/18/24 22:05	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 22:05	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 22:05	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 22:05	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/18/24 22:05	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/18/24 22:05	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/18/24 22:05	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 22:05	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 22:05	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/18/24 22:05	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/18/24 22:05	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/18/24 22:05	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 22:05	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/18/24 22:05	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/18/24 22:05	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/18/24 22:05	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/18/24 22:05	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/18/24 22:05	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/18/24 22:05	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/18/24 22:05	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/18/24 22:05	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/18/24 22:05	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/18/24 22:05	10061-02-6	
Ethylbenzene	**25.2**	ug/L	5.0	0.36	1		07/18/24 22:05	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/18/24 22:05	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/18/24 22:05	87-68-3	
n-Hexane	**25.2**	ug/L	5.0	0.50	1		07/18/24 22:05	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/18/24 22:05	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/18/24 22:05	74-88-4	
Isopropylbenzene (Cumene)	**12.2**	ug/L	5.0	0.40	1		07/18/24 22:05	98-82-8	
p-Isopropyltoluene	**2.4J**	ug/L	5.0	0.32	1		07/18/24 22:05	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/18/24 22:05	75-09-2	
1-Methylnaphthalene	**5.0J**	ug/L	10.0	3.3	1		07/18/24 22:05	90-12-0	
2-Methylnaphthalene	**7.0J**	ug/L	10.0	3.2	1		07/18/24 22:05	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/18/24 22:05	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/18/24 22:05	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/18/24 22:05	91-20-3	
n-Propylbenzene	**14.0**	ug/L	5.0	0.35	1		07/18/24 22:05	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/18/24 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/18/24 22:05	630-20-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 DUP **Lab ID: 50377912029** Collected: 07/10/24 14:49 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/18/24 22:05	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/18/24 22:05	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	1		07/18/24 22:05	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/18/24 22:05	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/18/24 22:05	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/18/24 22:05	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/18/24 22:05	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/18/24 22:05	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/18/24 22:05	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/18/24 22:05	96-18-4	
1,2,4-Trimethylbenzene	**12.0**	ug/L	5.0	0.41	1		07/18/24 22:05	95-63-6	
1,3,5-Trimethylbenzene	**3.6J**	ug/L	5.0	0.36	1		07/18/24 22:05	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/18/24 22:05	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/18/24 22:05	75-01-4	
Xylene (Total)	**7.3J**	ug/L	10.0	1.3	1		07/18/24 22:05	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%.	82-128		1		07/18/24 22:05	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-124		1		07/18/24 22:05	460-00-4	
Toluene-d8 (S)	102	%.	73-122		1		07/18/24 22:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-3R FF **Lab ID: 50377912030** Collected: 07/10/24 16:30 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**5.5J**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:43	7440-38-2	
Lead	**<2.0**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:43	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-7 FF **Lab ID: 50377912031** Collected: 07/10/24 15:35 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**<4.3**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:49	7440-38-2	
Lead	**<2.0**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:49	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-8 FF **Lab ID: 50377912032** Collected: 07/10/24 16:20 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**6.2J**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:50	7440-38-2	
Lead	**<2.0**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:50	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-9 FF **Lab ID: 50377912033** Collected: 07/10/24 15:48 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**<4.3**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:52	7440-38-2	
Lead	**<2.0**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:52	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-10 FF **Lab ID: 50377912034** Collected: 07/10/24 13:56 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**13.7**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:54	7440-38-2	
Lead	**21.9**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:54	7439-92-1	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: SP-11 FF **Lab ID: 50377912035** Collected: 07/10/24 14:48 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**11.8**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:56	7440-38-2	
Lead	**6.1J**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:56	7439-92-1	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: EB-1 **Lab ID: 50377912036** Collected: 07/10/24 16:45 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Arsenic	**<4.3**	ug/L	10.0	4.3	1	07/19/24 08:05	07/20/24 01:58	7440-38-2	
Lead	**<2.0**	ug/L	10.0	2.0	1	07/19/24 08:05	07/20/24 01:58	7439-92-1	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Initial Volume/Weight: 38.9 mL Final Volume/Weight: 2 mL Pace Analytical Services - Indianapolis								
Acenaphthene	**<0.097**	ug/L	1.0	0.097	1	07/15/24 12:20	07/16/24 00:36	83-32-9	
Acenaphthylene	**<0.075**	ug/L	1.0	0.075	1	07/15/24 12:20	07/16/24 00:36	208-96-8	
Anthracene	**<0.083**	ug/L	0.10	0.083	1	07/15/24 12:20	07/16/24 00:36	120-12-7	
Benzo(a)anthracene	**<0.067**	ug/L	0.10	0.067	1	07/15/24 12:20	07/16/24 00:36	56-55-3	
Benzo(a)pyrene	**<0.072**	ug/L	0.10	0.072	1	07/15/24 12:20	07/16/24 00:36	50-32-8	
Benzo(b)fluoranthene	**<0.067**	ug/L	0.10	0.067	1	07/15/24 12:20	07/16/24 00:36	205-99-2	
Benzo(g,h,i)perylene	**<0.094**	ug/L	0.10	0.094	1	07/15/24 12:20	07/16/24 00:36	191-24-2	
Benzo(k)fluoranthene	**<0.070**	ug/L	0.10	0.070	1	07/15/24 12:20	07/16/24 00:36	207-08-9	
Chrysene	**<0.063**	ug/L	0.51	0.063	1	07/15/24 12:20	07/16/24 00:36	218-01-9	
Dibenz(a,h)anthracene	**<0.078**	ug/L	0.10	0.078	1	07/15/24 12:20	07/16/24 00:36	53-70-3	
Fluoranthene	**<0.076**	ug/L	1.0	0.076	1	07/15/24 12:20	07/16/24 00:36	206-44-0	
Fluorene	**<0.099**	ug/L	1.0	0.099	1	07/15/24 12:20	07/16/24 00:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.060**	ug/L	0.10	0.060	1	07/15/24 12:20	07/16/24 00:36	193-39-5	
1-Methylnaphthalene	**<0.089**	ug/L	1.0	0.089	1	07/15/24 12:20	07/16/24 00:36	90-12-0	
2-Methylnaphthalene	**<0.10**	ug/L	1.0	0.10	1	07/15/24 12:20	07/16/24 00:36	91-57-6	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1	07/15/24 12:20	07/16/24 00:36	91-20-3	
Phenanthrene	**<0.11**	ug/L	1.0	0.11	1	07/15/24 12:20	07/16/24 00:36	85-01-8	
Pyrene	**<0.10**	ug/L	1.0	0.10	1	07/15/24 12:20	07/16/24 00:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	43-129		1	07/15/24 12:20	07/16/24 00:36	321-60-8	
p-Terphenyl-d14 (S)	124	%.	64-162		1	07/15/24 12:20	07/16/24 00:36	1718-51-0	
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/19/24 01:08	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/19/24 01:08	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/19/24 01:08	107-13-1	
Benzene	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:08	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/19/24 01:08	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:08	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/19/24 01:08	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/19/24 01:08	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 01:08	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/19/24 01:08	78-93-3	
n-Butylbenzene	**<0.35**	ug/L	5.0	0.35	1		07/19/24 01:08	104-51-8	
sec-Butylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:08	135-98-8	
tert-Butylbenzene	**<0.33**	ug/L	5.0	0.33	1		07/19/24 01:08	98-06-6	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: EB-1 **Lab ID: 50377912036** Collected: 07/10/24 16:45 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/19/24 01:08	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/19/24 01:08	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/19/24 01:08	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 01:08	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/19/24 01:08	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 01:08	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:08	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:08	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/19/24 01:08	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/19/24 01:08	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:08	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:08	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:08	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/19/24 01:08	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 01:08	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:08	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:08	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/19/24 01:08	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:08	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/19/24 01:08	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:08	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/19/24 01:08	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/19/24 01:08	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:08	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:08	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/19/24 01:08	10061-02-6	
Ethylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:08	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/19/24 01:08	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/19/24 01:08	87-68-3	
n-Hexane	**<0.50**	ug/L	5.0	0.50	1		07/19/24 01:08	110-54-3	
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/19/24 01:08	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/19/24 01:08	74-88-4	
Isopropylbenzene (Cumene)	**<0.40**	ug/L	5.0	0.40	1		07/19/24 01:08	98-82-8	
p-Isopropyltoluene	**<0.32**	ug/L	5.0	0.32	1		07/19/24 01:08	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/19/24 01:08	75-09-2	
1-Methylnaphthalene	**<3.3**	ug/L	10.0	3.3	1		07/19/24 01:08	90-12-0	
2-Methylnaphthalene	**<3.2**	ug/L	10.0	3.2	1		07/19/24 01:08	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/19/24 01:08	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/19/24 01:08	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/19/24 01:08	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	5.0	0.35	1		07/19/24 01:08	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/19/24 01:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/19/24 01:08	630-20-6	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: EB-1 **Lab ID: 50377912036** Collected: 07/10/24 16:45 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:08	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/19/24 01:08	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	1		07/19/24 01:08	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/19/24 01:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/19/24 01:08	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/19/24 01:08	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 01:08	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/19/24 01:08	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/19/24 01:08	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 01:08	96-18-4	
1,2,4-Trimethylbenzene	**<0.41**	ug/L	5.0	0.41	1		07/19/24 01:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:08	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/19/24 01:08	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/19/24 01:08	75-01-4	
Xylene (Total)	**<1.3**	ug/L	10.0	1.3	1		07/19/24 01:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94	%.	82-128		1		07/19/24 01:08	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-124		1		07/19/24 01:08	460-00-4	
Toluene-d8 (S)	100	%.	73-122		1		07/19/24 01:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: Trip Blank **Lab ID: 50377912037** Collected: 07/10/24 08:00 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**0.0088J**	mg/kg	0.10	0.0054	1		07/19/24 03:25	67-64-1	
Acrolein	**<0.016**	mg/kg	0.10	0.016	1		07/19/24 03:25	107-02-8	
Acrylonitrile	**<0.0017**	mg/kg	0.10	0.0017	1		07/19/24 03:25	107-13-1	
Benzene	**<0.00017**	mg/kg	0.0050	0.00017	1		07/19/24 03:25	71-43-2	
Bromobenzene	**<0.00029**	mg/kg	0.0050	0.00029	1		07/19/24 03:25	108-86-1	
Bromochloromethane	**<0.00035**	mg/kg	0.0050	0.00035	1		07/19/24 03:25	74-97-5	
Bromodichloromethane	**<0.00030**	mg/kg	0.0050	0.00030	1		07/19/24 03:25	75-27-4	
Bromoform	**<0.0018**	mg/kg	0.0050	0.0018	1		07/19/24 03:25	75-25-2	
Bromomethane	**<0.00094**	mg/kg	0.0050	0.00094	1		07/19/24 03:25	74-83-9	
2-Butanone (MEK)	**<0.010**	mg/kg	0.025	0.010	1		07/19/24 03:25	78-93-3	
n-Butylbenzene	**<0.00038**	mg/kg	0.0050	0.00038	1		07/19/24 03:25	104-51-8	
sec-Butylbenzene	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	135-98-8	
tert-Butylbenzene	**<0.00019**	mg/kg	0.0050	0.00019	1		07/19/24 03:25	98-06-6	
Carbon disulfide	**<0.00087**	mg/kg	0.010	0.00087	1		07/19/24 03:25	75-15-0	
Carbon tetrachloride	**<0.0014**	mg/kg	0.0050	0.0014	1		07/19/24 03:25	56-23-5	
Chlorobenzene	**<0.00021**	mg/kg	0.0050	0.00021	1		07/19/24 03:25	108-90-7	
Chloroethane	**<0.00092**	mg/kg	0.0050	0.00092	1		07/19/24 03:25	75-00-3	
Chloroform	**<0.0027**	mg/kg	0.0050	0.0027	1		07/19/24 03:25	67-66-3	
Chloromethane	**<0.00043**	mg/kg	0.0050	0.00043	1		07/19/24 03:25	74-87-3	
2-Chlorotoluene	**<0.00023**	mg/kg	0.0050	0.00023	1		07/19/24 03:25	95-49-8	
4-Chlorotoluene	**<0.00022**	mg/kg	0.0050	0.00022	1		07/19/24 03:25	106-43-4	
Dibromochloromethane	**<0.00036**	mg/kg	0.0050	0.00036	1		07/19/24 03:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.00040**	mg/kg	0.0050	0.00040	1		07/19/24 03:25	106-93-4	
Dibromomethane	**<0.0011**	mg/kg	0.0050	0.0011	1		07/19/24 03:25	74-95-3	
1,2-Dichlorobenzene	**<0.00029**	mg/kg	0.0050	0.00029	1		07/19/24 03:25	95-50-1	
1,3-Dichlorobenzene	**<0.00028**	mg/kg	0.0050	0.00028	1		07/19/24 03:25	541-73-1	
1,4-Dichlorobenzene	**<0.00030**	mg/kg	0.0050	0.00030	1		07/19/24 03:25	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.0025**	mg/kg	0.10	0.0025	1		07/19/24 03:25	110-57-6	
Dichlorodifluoromethane	**<0.00037**	mg/kg	0.0050	0.00037	1		07/19/24 03:25	75-71-8	
1,1-Dichloroethane	**<0.00023**	mg/kg	0.0050	0.00023	1		07/19/24 03:25	75-34-3	
1,2-Dichloroethane	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	107-06-2	
1,1-Dichloroethene	**<0.00041**	mg/kg	0.0050	0.00041	1		07/19/24 03:25	75-35-4	
cis-1,2-Dichloroethene	**<0.00034**	mg/kg	0.0050	0.00034	1		07/19/24 03:25	156-59-2	
trans-1,2-Dichloroethene	**<0.00046**	mg/kg	0.0050	0.00046	1		07/19/24 03:25	156-60-5	
1,2-Dichloropropane	**<0.00039**	mg/kg	0.0050	0.00039	1		07/19/24 03:25	78-87-5	
1,3-Dichloropropane	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	142-28-9	
2,2-Dichloropropane	**<0.0017**	mg/kg	0.0050	0.0017	1		07/19/24 03:25	594-20-7	
1,1-Dichloropropene	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	563-58-6	
cis-1,3-Dichloropropene	**<0.00088**	mg/kg	0.0050	0.00088	1		07/19/24 03:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.0011**	mg/kg	0.0050	0.0011	1		07/19/24 03:25	10061-02-6	
Ethylbenzene	**<0.00025**	mg/kg	0.0050	0.00025	1		07/19/24 03:25	100-41-4	
Ethyl methacrylate	**<0.0030**	mg/kg	0.10	0.0030	1		07/19/24 03:25	97-63-2	
Hexachloro-1,3-butadiene	**<0.00050**	mg/kg	0.0050	0.00050	1		07/19/24 03:25	87-68-3	

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ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: Trip Blank **Lab ID: 50377912037** Collected: 07/10/24 08:00 Received: 07/12/24 15:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Initial Volume/Weight: 5 g Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
n-Hexane	**0.035**	mg/kg	0.0050	0.00049	1		07/19/24 03:25	110-54-3	C0
2-Hexanone	**<0.0022**	mg/kg	0.10	0.0022	1		07/19/24 03:25	591-78-6	
Iodomethane	**<0.0026**	mg/kg	0.10	0.0026	1		07/19/24 03:25	74-88-4	
Isopropylbenzene (Cumene)	**<0.00024**	mg/kg	0.0050	0.00024	1		07/19/24 03:25	98-82-8	
p-Isopropyltoluene	**<0.00031**	mg/kg	0.0050	0.00031	1		07/19/24 03:25	99-87-6	
Methylene Chloride	**<0.012**	mg/kg	0.020	0.012	1		07/19/24 03:25	75-09-2	
1-Methylnaphthalene	**0.0018J**	mg/kg	0.010	0.00028	1		07/19/24 03:25	90-12-0	B
2-Methylnaphthalene	**<0.0028**	mg/kg	0.010	0.0028	1		07/19/24 03:25	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<0.0026**	mg/kg	0.025	0.0026	1		07/19/24 03:25	108-10-1	
Methyl-tert-butyl ether	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	1634-04-4	
Naphthalene	**<0.0019**	mg/kg	0.0050	0.0019	1		07/19/24 03:25	91-20-3	
n-Propylbenzene	**<0.00021**	mg/kg	0.0050	0.00021	1		07/19/24 03:25	103-65-1	
Styrene	**<0.00024**	mg/kg	0.0050	0.00024	1		07/19/24 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.00027**	mg/kg	0.0050	0.00027	1		07/19/24 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.00056**	mg/kg	0.0050	0.00056	1		07/19/24 03:25	79-34-5	
Tetrachloroethene	**<0.00031**	mg/kg	0.0050	0.00031	1		07/19/24 03:25	127-18-4	
Toluene	**<0.00046**	mg/kg	0.0050	0.00046	1		07/19/24 03:25	108-88-3	
1,2,3-Trichlorobenzene	**<0.00087**	mg/kg	0.0050	0.00087	1		07/19/24 03:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.00077**	mg/kg	0.0050	0.00077	1		07/19/24 03:25	120-82-1	
1,1,1-Trichloroethane	**<0.00035**	mg/kg	0.0050	0.00035	1		07/19/24 03:25	71-55-6	
1,1,2-Trichloroethane	**<0.00093**	mg/kg	0.0050	0.00093	1		07/19/24 03:25	79-00-5	
Trichloroethene	**0.0027J**	mg/kg	0.0050	0.00039	1		07/19/24 03:25	79-01-6	
Trichlorofluoromethane	**0.0032J**	mg/kg	0.0050	0.00040	1		07/19/24 03:25	75-69-4	
1,2,3-Trichloropropane	**<0.0013**	mg/kg	0.0050	0.0013	1		07/19/24 03:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.00070**	mg/kg	0.0050	0.00070	1		07/19/24 03:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.00026**	mg/kg	0.0050	0.00026	1		07/19/24 03:25	108-67-8	
Vinyl acetate	**<0.0012**	mg/kg	0.10	0.0012	1		07/19/24 03:25	108-05-4	
Vinyl chloride	**<0.0011**	mg/kg	0.0050	0.0011	1		07/19/24 03:25	75-01-4	
Xylene (Total)	**<0.0022**	mg/kg	0.010	0.0022	1		07/19/24 03:25	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%.	75-135		1		07/19/24 03:25	1868-53-7	
Toluene-d8 (S)	99	%.	65-148		1		07/19/24 03:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	63-132		1		07/19/24 03:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: Trip Blank **Lab ID: 50377912038** Collected: 07/10/24 08:00 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
Acetone	**<17.5**	ug/L	100	17.5	1		07/19/24 01:38	67-64-1	
Acrolein	**<17.3**	ug/L	50.0	17.3	1		07/19/24 01:38	107-02-8	
Acrylonitrile	**<2.5**	ug/L	100	2.5	1		07/19/24 01:38	107-13-1	
Benzene	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:38	71-43-2	
Bromobenzene	**<0.31**	ug/L	5.0	0.31	1		07/19/24 01:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:38	74-97-5	
Bromodichloromethane	**<0.48**	ug/L	5.0	0.48	1		07/19/24 01:38	75-27-4	
Bromoform	**<0.96**	ug/L	5.0	0.96	1		07/19/24 01:38	75-25-2	
Bromomethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 01:38	74-83-9	
2-Butanone (MEK)	**<11.8**	ug/L	25.0	11.8	1		07/19/24 01:38	78-93-3	
n-Butylbenzene	**<0.35**	ug/L	5.0	0.35	1		07/19/24 01:38	104-51-8	
sec-Butylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:38	135-98-8	
tert-Butylbenzene	**<0.33**	ug/L	5.0	0.33	1		07/19/24 01:38	98-06-6	
Carbon disulfide	**<0.82**	ug/L	10.0	0.82	1		07/19/24 01:38	75-15-0	
Carbon tetrachloride	**<0.45**	ug/L	5.0	0.45	1		07/19/24 01:38	56-23-5	
Chlorobenzene	**<0.32**	ug/L	5.0	0.32	1		07/19/24 01:38	108-90-7	
Chloroethane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 01:38	75-00-3	
Chloroform	**<0.73**	ug/L	5.0	0.73	1		07/19/24 01:38	67-66-3	
Chloromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 01:38	74-87-3	
2-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:38	95-49-8	
4-Chlorotoluene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:38	106-43-4	
Dibromochloromethane	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.65**	ug/L	5.0	0.65	1		07/19/24 01:38	106-93-4	
Dibromomethane	**<0.81**	ug/L	5.0	0.81	1		07/19/24 01:38	74-95-3	
1,2-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:38	95-50-1	
1,3-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:38	541-73-1	
1,4-Dichlorobenzene	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:38	106-46-7	
trans-1,4-Dichloro-2-butene	**<2.3**	ug/L	100	2.3	1		07/19/24 01:38	110-57-6	
Dichlorodifluoromethane	**<0.51**	ug/L	5.0	0.51	1		07/19/24 01:38	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:38	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:38	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	5.0	0.43	1		07/19/24 01:38	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/L	5.0	0.38	1		07/19/24 01:38	156-59-2	
trans-1,2-Dichloroethene	**<0.66**	ug/L	5.0	0.66	1		07/19/24 01:38	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:38	78-87-5	
1,3-Dichloropropane	**<0.31**	ug/L	5.0	0.31	1		07/19/24 01:38	142-28-9	
2,2-Dichloropropane	**<2.1**	ug/L	5.0	2.1	1		07/19/24 01:38	594-20-7	
1,1-Dichloropropene	**<0.39**	ug/L	5.0	0.39	1		07/19/24 01:38	563-58-6	
cis-1,3-Dichloropropene	**<0.37**	ug/L	5.0	0.37	1		07/19/24 01:38	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/L	5.0	1.2	1		07/19/24 01:38	10061-02-6	
Ethylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:38	100-41-4	
Ethyl methacrylate	**<3.2**	ug/L	100	3.2	1		07/19/24 01:38	97-63-2	
Hexachloro-1,3-butadiene	**<0.40**	ug/L	5.0	0.40	1		07/19/24 01:38	87-68-3	
n-Hexane	**<0.50**	ug/L	5.0	0.50	1		07/19/24 01:38	110-54-3	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Sample: Trip Blank **Lab ID: 50377912038** Collected: 07/10/24 08:00 Received: 07/12/24 15:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 5030/8260 Initial Volume/Weight: 5 mL Final Volume/Weight: 5 mL Pace Analytical Services - Indianapolis								
2-Hexanone	**<2.5**	ug/L	25.0	2.5	1		07/19/24 01:38	591-78-6	
Iodomethane	**<1.4**	ug/L	10.0	1.4	1		07/19/24 01:38	74-88-4	
Isopropylbenzene (Cumene)	**<0.40**	ug/L	5.0	0.40	1		07/19/24 01:38	98-82-8	
p-Isopropyltoluene	**<0.32**	ug/L	5.0	0.32	1		07/19/24 01:38	99-87-6	
Methylene Chloride	**<4.5**	ug/L	5.0	4.5	1		07/19/24 01:38	75-09-2	
1-Methylnaphthalene	**<3.3**	ug/L	10.0	3.3	1		07/19/24 01:38	90-12-0	
2-Methylnaphthalene	**<3.2**	ug/L	10.0	3.2	1		07/19/24 01:38	91-57-6	
4-Methyl-2-pentanone (MIBK)	**<2.1**	ug/L	25.0	2.1	1		07/19/24 01:38	108-10-1	
Methyl-tert-butyl ether	**<0.30**	ug/L	4.0	0.30	1		07/19/24 01:38	1634-04-4	
Naphthalene	**<0.88**	ug/L	1.2	0.88	1		07/19/24 01:38	91-20-3	
n-Propylbenzene	**<0.35**	ug/L	5.0	0.35	1		07/19/24 01:38	103-65-1	
Styrene	**<0.34**	ug/L	5.0	0.34	1		07/19/24 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.33**	ug/L	5.0	0.33	1		07/19/24 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	5.0	0.28	1		07/19/24 01:38	79-34-5	
Tetrachloroethene	**<0.44**	ug/L	5.0	0.44	1		07/19/24 01:38	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	1		07/19/24 01:38	108-88-3	
1,2,3-Trichlorobenzene	**<0.71**	ug/L	5.0	0.71	1		07/19/24 01:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.60**	ug/L	5.0	0.60	1		07/19/24 01:38	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	5.0	0.49	1		07/19/24 01:38	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/L	5.0	0.67	1		07/19/24 01:38	79-00-5	
Trichloroethene	**<0.48**	ug/L	5.0	0.48	1		07/19/24 01:38	79-01-6	
Trichlorofluoromethane	**<0.41**	ug/L	5.0	0.41	1		07/19/24 01:38	75-69-4	
1,2,3-Trichloropropane	**<1.6**	ug/L	5.0	1.6	1		07/19/24 01:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.41**	ug/L	5.0	0.41	1		07/19/24 01:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	5.0	0.36	1		07/19/24 01:38	108-67-8	
Vinyl acetate	**<0.84**	ug/L	50.0	0.84	1		07/19/24 01:38	108-05-4	
Vinyl chloride	**<0.46**	ug/L	2.0	0.46	1		07/19/24 01:38	75-01-4	
Xylene (Total)	**<1.3**	ug/L	10.0	1.3	1		07/19/24 01:38	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	92	%.	82-128		1		07/19/24 01:38	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124		1		07/19/24 01:38	460-00-4	
Toluene-d8 (S)	100	%.	73-122		1		07/19/24 01:38	2037-26-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800177
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912023, 50377912024, 50377912025, 50377912026, 50377912027, 50377912028, 50377912029, 50377912030, 50377912031, 50377912032, 50377912033, 50377912034, 50377912035, 50377912036

METHOD BLANK: 3660737 Matrix: Water
Associated Lab Samples: 50377912023, 50377912024, 50377912025, 50377912026, 50377912027, 50377912028, 50377912029, 50377912030, 50377912031, 50377912032, 50377912033, 50377912034, 50377912035, 50377912036

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<4.3	10.0	4.3	07/20/24 01:05	
Lead	ug/L	<2.0	10.0	2.0	07/20/24 01:05	

LABORATORY CONTROL SAMPLE: 3660738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	968	97	80-120	
Lead	ug/L	1000	929	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660739 3660740

Parameter	Units	50377905054 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<4.3	1000	1000	1010	1010	101	100	75-125	0	20	
Lead	ug/L	<2.0	1000	1000	908	900	91	90	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660741 3660742

Parameter	Units	50377912027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	101	5000	5000	4890	4950	96	97	75-125	1	20	
Lead	ug/L	240	5000	5000	4550	4600	86	87	75-125	1	20	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800764
QC Batch Method: EPA 5030/8260
Analysis Method: EPA 5030/8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912024, 50377912025, 50377912026, 50377912028, 50377912029

METHOD BLANK: 3663270 Matrix: Water
Associated Lab Samples: 50377912024, 50377912025, 50377912026, 50377912028, 50377912029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	5.0	0.33	07/18/24 12:28	
1,1,1-Trichloroethane	ug/L	<0.49	5.0	0.49	07/18/24 12:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	5.0	0.28	07/18/24 12:28	
1,1,2-Trichloroethane	ug/L	<0.67	5.0	0.67	07/18/24 12:28	
1,1-Dichloroethane	ug/L	<0.39	5.0	0.39	07/18/24 12:28	
1,1-Dichloroethene	ug/L	<0.43	5.0	0.43	07/18/24 12:28	
1,1-Dichloropropene	ug/L	<0.39	5.0	0.39	07/18/24 12:28	
1,2,3-Trichlorobenzene	ug/L	<0.71	5.0	0.71	07/18/24 12:28	
1,2,3-Trichloropropane	ug/L	<1.6	5.0	1.6	07/18/24 12:28	
1,2,4-Trichlorobenzene	ug/L	<0.60	5.0	0.60	07/18/24 12:28	
1,2,4-Trimethylbenzene	ug/L	<0.41	5.0	0.41	07/18/24 12:28	
1,2-Dibromoethane (EDB)	ug/L	<0.65	5.0	0.65	07/18/24 12:28	
1,2-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/18/24 12:28	
1,2-Dichloroethane	ug/L	<0.39	5.0	0.39	07/18/24 12:28	
1,2-Dichloropropane	ug/L	<0.37	5.0	0.37	07/18/24 12:28	
1,3,5-Trimethylbenzene	ug/L	<0.36	5.0	0.36	07/18/24 12:28	
1,3-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/18/24 12:28	
1,3-Dichloropropane	ug/L	<0.31	5.0	0.31	07/18/24 12:28	
1,4-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/18/24 12:28	
1-Methylnaphthalene	ug/L	<3.3	10.0	3.3	07/18/24 12:28	
2,2-Dichloropropane	ug/L	<2.1	5.0	2.1	07/18/24 12:28	
2-Butanone (MEK)	ug/L	<11.8	25.0	11.8	07/18/24 12:28	
2-Chlorotoluene	ug/L	<0.38	5.0	0.38	07/18/24 12:28	
2-Hexanone	ug/L	<2.5	25.0	2.5	07/18/24 12:28	
2-Methylnaphthalene	ug/L	<3.2	10.0	3.2	07/18/24 12:28	
4-Chlorotoluene	ug/L	<0.38	5.0	0.38	07/18/24 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	25.0	2.1	07/18/24 12:28	
Acetone	ug/L	<17.5	100	17.5	07/18/24 12:28	
Acrolein	ug/L	<17.3	50.0	17.3	07/18/24 12:28	
Acrylonitrile	ug/L	<2.5	100	2.5	07/18/24 12:28	
Benzene	ug/L	<0.37	5.0	0.37	07/18/24 12:28	
Bromobenzene	ug/L	<0.31	5.0	0.31	07/18/24 12:28	
Bromochloromethane	ug/L	<0.36	5.0	0.36	07/18/24 12:28	
Bromodichloromethane	ug/L	<0.48	5.0	0.48	07/18/24 12:28	
Bromoform	ug/L	<0.96	5.0	0.96	07/18/24 12:28	
Bromomethane	ug/L	<0.67	5.0	0.67	07/18/24 12:28	
Carbon disulfide	ug/L	<0.82	10.0	0.82	07/18/24 12:28	
Carbon tetrachloride	ug/L	<0.45	5.0	0.45	07/18/24 12:28	
Chlorobenzene	ug/L	<0.32	5.0	0.32	07/18/24 12:28	
Chloroethane	ug/L	<1.6	5.0	1.6	07/18/24 12:28	

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REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

METHOD BLANK: 3663270 Matrix: Water
Associated Lab Samples: 50377912024, 50377912025, 50377912026, 50377912028, 50377912029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	ug/L	<0.73	5.0	0.73	07/18/24 12:28	
Chloromethane	ug/L	<0.51	5.0	0.51	07/18/24 12:28	
cis-1,2-Dichloroethene	ug/L	<0.38	5.0	0.38	07/18/24 12:28	
cis-1,3-Dichloropropene	ug/L	<0.37	5.0	0.37	07/18/24 12:28	
Dibromochloromethane	ug/L	<0.38	5.0	0.38	07/18/24 12:28	
Dibromomethane	ug/L	<0.81	5.0	0.81	07/18/24 12:28	
Dichlorodifluoromethane	ug/L	<0.51	5.0	0.51	07/18/24 12:28	
Ethyl methacrylate	ug/L	<3.2	100	3.2	07/18/24 12:28	
Ethylbenzene	ug/L	<0.36	5.0	0.36	07/18/24 12:28	
Hexachloro-1,3-butadiene	ug/L	<0.40	5.0	0.40	07/18/24 12:28	
Iodomethane	ug/L	<1.4	10.0	1.4	07/18/24 12:28	
Isopropylbenzene (Cumene)	ug/L	<0.40	5.0	0.40	07/18/24 12:28	
Methyl-tert-butyl ether	ug/L	<0.30	4.0	0.30	07/18/24 12:28	
Methylene Chloride	ug/L	<4.5	5.0	4.5	07/18/24 12:28	
n-Butylbenzene	ug/L	<0.35	5.0	0.35	07/18/24 12:28	
n-Hexane	ug/L	<0.50	5.0	0.50	07/18/24 12:28	
n-Propylbenzene	ug/L	<0.35	5.0	0.35	07/18/24 12:28	
Naphthalene	ug/L	<0.88	1.2	0.88	07/18/24 12:28	
p-Isopropyltoluene	ug/L	<0.32	5.0	0.32	07/18/24 12:28	
sec-Butylbenzene	ug/L	<0.36	5.0	0.36	07/18/24 12:28	
Styrene	ug/L	<0.34	5.0	0.34	07/18/24 12:28	
tert-Butylbenzene	ug/L	<0.33	5.0	0.33	07/18/24 12:28	
Tetrachloroethene	ug/L	<0.44	5.0	0.44	07/18/24 12:28	
Toluene	ug/L	<1.3	5.0	1.3	07/18/24 12:28	
trans-1,2-Dichloroethene	ug/L	<0.66	5.0	0.66	07/18/24 12:28	
trans-1,3-Dichloropropene	ug/L	<1.2	5.0	1.2	07/18/24 12:28	
trans-1,4-Dichloro-2-butene	ug/L	<2.3	100	2.3	07/18/24 12:28	
Trichloroethene	ug/L	<0.48	5.0	0.48	07/18/24 12:28	
Trichlorofluoromethane	ug/L	<0.41	5.0	0.41	07/18/24 12:28	
Vinyl acetate	ug/L	<0.84	50.0	0.84	07/18/24 12:28	
Vinyl chloride	ug/L	<0.46	2.0	0.46	07/18/24 12:28	
Xylene (Total)	ug/L	<1.3	10.0	1.3	07/18/24 12:28	
4-Bromofluorobenzene (S)	%.	97	79-124		07/18/24 12:28	
Dibromofluoromethane (S)	%.	94	82-128		07/18/24 12:28	
Toluene-d8 (S)	%.	97	73-122		07/18/24 12:28	

LABORATORY CONTROL SAMPLE: 3663271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.5	91	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	37.7	75	70-126	
1,1-Dichloroethene	ug/L	50	44.2	88	71-130	
1,2,4-Trimethylbenzene	ug/L	50	43.0	86	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	41.3	83	80-120	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3663271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.2	84	72-123	
1,2-Dichloropropane	ug/L	50	42.1	84	76-125	
Benzene	ug/L	50	43.0	86	76-122	
Chlorobenzene	ug/L	50	41.0	82	76-118	
Chloroform	ug/L	50	43.4	87	78-121	
cis-1,2-Dichloroethene	ug/L	50	43.8	88	77-123	
Ethylbenzene	ug/L	50	44.6	89	76-120	
Isopropylbenzene (Cumene)	ug/L	50	39.0	78	71-124	
Methyl-tert-butyl ether	ug/L	50	41.9	84	71-121	
n-Hexane	ug/L	50	40.6	81	51-126	
Naphthalene	ug/L	50	42.2	84	62-143	
Tetrachloroethene	ug/L	50	45.2	90	71-122	
Toluene	ug/L	50	40.6	81	74-118	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	75-122	
Trichloroethene	ug/L	50	42.3	85	74-125	
Vinyl chloride	ug/L	50	42.0	84	55-139	
Xylene (Total)	ug/L	150	120	80	73-119	
4-Bromofluorobenzene (S)	%.			97	79-124	
Dibromofluoromethane (S)	%.			99	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663272 3663273

Parameter	Units	50377879011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	41.9	47.2	84	94	47-145	12	20	
1,1,2,2-Tetrachloroethane	ug/L		50	50	37.0	42.1	74	84	49-133	13	20	
1,1-Dichloroethene	ug/L	ND	50	50	41.5	45.0	83	90	53-144	8	20	
1,2,4-Trimethylbenzene	ug/L		50	50	41.7	46.0	83	92	41-131	10	20	
1,2-Dibromoethane (EDB)	ug/L		50	50	40.8	47.9	82	96	55-133	16	20	
1,2-Dichloroethane	ug/L		50	50	39.6	44.6	79	89	50-138	12	20	
1,2-Dichloropropane	ug/L		50	50	40.5	46.0	81	92	54-139	13	20	
Benzene	ug/L	ND	50	50	42.1	47.7	84	95	53-138	13	20	
Chlorobenzene	ug/L	ND	50	50	41.1	46.2	82	92	52-131	12	20	
Chloroform	ug/L	ND	50	50	41.0	45.4	82	91	54-138	10	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	41.2	46.5	82	93	50-141	12	20	
Ethylbenzene	ug/L	ND	50	50	42.0	49.1	84	98	50-136	15	20	
Isopropylbenzene (Cumene)	ug/L		50	50	38.0	43.4	76	87	46-137	13	20	
Methyl-tert-butyl ether	ug/L		50	50	41.1	45.6	82	91	47-135	10	20	
n-Hexane	ug/L		50	50	38.5	43.8	77	88	35-137	13	20	
Naphthalene	ug/L	ND	50	50	41.5	46.8	83	94	34-152	12	20	
Tetrachloroethene	ug/L	ND	50	50	42.4	50.7	85	101	44-138	18	20	
Toluene	ug/L	ND	50	50	39.7	48.1	79	96	52-132	19	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	40.8	47.0	82	94	50-137	14	20	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663272 3663273

Parameter	Units	50377879011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	ND	50	50	40.1	46.6	80	93	49-140	15	20	
Vinyl chloride	ug/L	ND	50	50	38.1	42.1	76	84	41-147	10	20	
Xylene (Total)	ug/L		150	150	120	134	80	89	44-138	11	20	
4-Bromofluorobenzene (S)	%.						96	100	79-124			
Dibromofluoromethane (S)	%.						95	94	82-128			
Toluene-d8 (S)	%.						98	103	73-122			

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800765
QC Batch Method: EPA 5030/8260
Analysis Method: EPA 5030/8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912027, 50377912036, 50377912038

METHOD BLANK: 3663274 Matrix: Water
Associated Lab Samples: 50377912027, 50377912036, 50377912038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.33	5.0	0.33	07/19/24 00:37	
1,1,1-Trichloroethane	ug/L	<0.49	5.0	0.49	07/19/24 00:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	5.0	0.28	07/19/24 00:37	
1,1,2-Trichloroethane	ug/L	<0.67	5.0	0.67	07/19/24 00:37	
1,1-Dichloroethane	ug/L	<0.39	5.0	0.39	07/19/24 00:37	
1,1-Dichloroethene	ug/L	<0.43	5.0	0.43	07/19/24 00:37	
1,1-Dichloropropene	ug/L	<0.39	5.0	0.39	07/19/24 00:37	
1,2,3-Trichlorobenzene	ug/L	<0.71	5.0	0.71	07/19/24 00:37	
1,2,3-Trichloropropane	ug/L	<1.6	5.0	1.6	07/19/24 00:37	
1,2,4-Trichlorobenzene	ug/L	<0.60	5.0	0.60	07/19/24 00:37	
1,2,4-Trimethylbenzene	ug/L	<0.41	5.0	0.41	07/19/24 00:37	
1,2-Dibromoethane (EDB)	ug/L	<0.65	5.0	0.65	07/19/24 00:37	
1,2-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/19/24 00:37	
1,2-Dichloroethane	ug/L	<0.39	5.0	0.39	07/19/24 00:37	
1,2-Dichloropropane	ug/L	<0.37	5.0	0.37	07/19/24 00:37	
1,3,5-Trimethylbenzene	ug/L	<0.36	5.0	0.36	07/19/24 00:37	
1,3-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/19/24 00:37	
1,3-Dichloropropane	ug/L	<0.31	5.0	0.31	07/19/24 00:37	
1,4-Dichlorobenzene	ug/L	<0.28	5.0	0.28	07/19/24 00:37	
1-Methylnaphthalene	ug/L	<3.3	10.0	3.3	07/19/24 00:37	
2,2-Dichloropropane	ug/L	<2.1	5.0	2.1	07/19/24 00:37	
2-Butanone (MEK)	ug/L	<11.8	25.0	11.8	07/19/24 00:37	
2-Chlorotoluene	ug/L	<0.38	5.0	0.38	07/19/24 00:37	
2-Hexanone	ug/L	<2.5	25.0	2.5	07/19/24 00:37	
2-Methylnaphthalene	ug/L	<3.2	10.0	3.2	07/19/24 00:37	
4-Chlorotoluene	ug/L	<0.38	5.0	0.38	07/19/24 00:37	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.1	25.0	2.1	07/19/24 00:37	
Acetone	ug/L	<17.5	100	17.5	07/19/24 00:37	
Acrolein	ug/L	<17.3	50.0	17.3	07/19/24 00:37	
Acrylonitrile	ug/L	<2.5	100	2.5	07/19/24 00:37	
Benzene	ug/L	<0.37	5.0	0.37	07/19/24 00:37	
Bromobenzene	ug/L	<0.31	5.0	0.31	07/19/24 00:37	
Bromochloromethane	ug/L	<0.36	5.0	0.36	07/19/24 00:37	
Bromodichloromethane	ug/L	<0.48	5.0	0.48	07/19/24 00:37	
Bromoform	ug/L	<0.96	5.0	0.96	07/19/24 00:37	
Bromomethane	ug/L	<0.67	5.0	0.67	07/19/24 00:37	
Carbon disulfide	ug/L	<0.82	10.0	0.82	07/19/24 00:37	
Carbon tetrachloride	ug/L	<0.45	5.0	0.45	07/19/24 00:37	
Chlorobenzene	ug/L	<0.32	5.0	0.32	07/19/24 00:37	
Chloroethane	ug/L	<1.6	5.0	1.6	07/19/24 00:37	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

METHOD BLANK: 3663274 Matrix: Water
Associated Lab Samples: 50377912027, 50377912036, 50377912038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	ug/L	<0.73	5.0	0.73	07/19/24 00:37	
Chloromethane	ug/L	<0.51	5.0	0.51	07/19/24 00:37	
cis-1,2-Dichloroethene	ug/L	<0.38	5.0	0.38	07/19/24 00:37	
cis-1,3-Dichloropropene	ug/L	<0.37	5.0	0.37	07/19/24 00:37	
Dibromochloromethane	ug/L	<0.38	5.0	0.38	07/19/24 00:37	
Dibromomethane	ug/L	<0.81	5.0	0.81	07/19/24 00:37	
Dichlorodifluoromethane	ug/L	<0.51	5.0	0.51	07/19/24 00:37	
Ethyl methacrylate	ug/L	<3.2	100	3.2	07/19/24 00:37	
Ethylbenzene	ug/L	<0.36	5.0	0.36	07/19/24 00:37	
Hexachloro-1,3-butadiene	ug/L	<0.40	5.0	0.40	07/19/24 00:37	
Iodomethane	ug/L	<1.4	10.0	1.4	07/19/24 00:37	
Isopropylbenzene (Cumene)	ug/L	<0.40	5.0	0.40	07/19/24 00:37	
Methyl-tert-butyl ether	ug/L	<0.30	4.0	0.30	07/19/24 00:37	
Methylene Chloride	ug/L	<4.5	5.0	4.5	07/19/24 00:37	
n-Butylbenzene	ug/L	<0.35	5.0	0.35	07/19/24 00:37	
n-Hexane	ug/L	<0.50	5.0	0.50	07/19/24 00:37	
n-Propylbenzene	ug/L	<0.35	5.0	0.35	07/19/24 00:37	
Naphthalene	ug/L	<0.88	1.2	0.88	07/19/24 00:37	
p-Isopropyltoluene	ug/L	<0.32	5.0	0.32	07/19/24 00:37	
sec-Butylbenzene	ug/L	<0.36	5.0	0.36	07/19/24 00:37	
Styrene	ug/L	<0.34	5.0	0.34	07/19/24 00:37	
tert-Butylbenzene	ug/L	<0.33	5.0	0.33	07/19/24 00:37	
Tetrachloroethene	ug/L	<0.44	5.0	0.44	07/19/24 00:37	
Toluene	ug/L	<1.3	5.0	1.3	07/19/24 00:37	
trans-1,2-Dichloroethene	ug/L	<0.66	5.0	0.66	07/19/24 00:37	
trans-1,3-Dichloropropene	ug/L	<1.2	5.0	1.2	07/19/24 00:37	
trans-1,4-Dichloro-2-butene	ug/L	<2.3	100	2.3	07/19/24 00:37	
Trichloroethene	ug/L	<0.48	5.0	0.48	07/19/24 00:37	
Trichlorofluoromethane	ug/L	<0.41	5.0	0.41	07/19/24 00:37	
Vinyl acetate	ug/L	<0.84	50.0	0.84	07/19/24 00:37	
Vinyl chloride	ug/L	<0.46	2.0	0.46	07/19/24 00:37	
Xylene (Total)	ug/L	<1.3	10.0	1.3	07/19/24 00:37	
4-Bromofluorobenzene (S)	%.	101	79-124		07/19/24 00:37	
Dibromofluoromethane (S)	%.	95	82-128		07/19/24 00:37	
Toluene-d8 (S)	%.	102	73-122		07/19/24 00:37	

LABORATORY CONTROL SAMPLE: 3663275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.6	95	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	42.4	85	70-126	
1,1-Dichloroethene	ug/L	50	50.7	101	71-130	
1,2,4-Trimethylbenzene	ug/L	50	42.6	85	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	46.3	93	80-120	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3663275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.6	91	72-123	
1,2-Dichloropropane	ug/L	50	43.9	88	76-125	
Benzene	ug/L	50	46.9	94	76-122	
Chlorobenzene	ug/L	50	44.1	88	76-118	
Chloroform	ug/L	50	45.2	90	78-121	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	77-123	
Ethylbenzene	ug/L	50	45.8	92	76-120	
Isopropylbenzene (Cumene)	ug/L	50	46.1	92	71-124	
Methyl-tert-butyl ether	ug/L	50	47.1	94	71-121	
n-Hexane	ug/L	50	44.9	90	51-126	
Naphthalene	ug/L	50	46.9	94	62-143	
Tetrachloroethene	ug/L	50	46.8	94	71-122	
Toluene	ug/L	50	44.2	88	74-118	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	75-122	
Trichloroethene	ug/L	50	44.3	89	74-125	
Vinyl chloride	ug/L	50	40.6	81	55-139	
Xylene (Total)	ug/L	100	87.2	87	73-119	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			101	82-128	
Toluene-d8 (S)	%.			102	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663276 3663277

Parameter	Units	50378097038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	49.8	48.3	100	97	47-145	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.2	44.5	86	89	49-133	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.5	51.3	99	103	53-144	4	20	
1,2,4-Trimethylbenzene	ug/L	101	50	50	145	143	87	83	41-131	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	47.8	49.8	96	100	55-133	4	20	
1,2-Dichloroethane	ug/L	ND	50	50	45.9	47.6	92	95	50-138	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.4	47.9	97	96	54-139	1	20	
Benzene	ug/L	ND	50	50	51.1	51.3	99	99	53-138	0	20	
Chlorobenzene	ug/L	ND	50	50	46.2	45.8	92	92	52-131	1	20	
Chloroform	ug/L	ND	50	50	49.2	47.3	98	95	54-138	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.1	48.5	98	97	50-141	1	20	
Ethylbenzene	ug/L	12.9	50	50	59.7	59.0	94	92	50-136	1	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	44.9	44.4	83	82	46-137	1	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	48.6	49.8	97	100	47-135	3	20	
n-Hexane	ug/L	ND	50	50	46.1	45.7	88	88	35-137	1	20	
Naphthalene	ug/L	29.2	50	50	78.9	81.0	99	104	34-152	3	20	
Tetrachloroethene	ug/L	ND	50	50	48.2	47.9	95	95	44-138	1	20	
Toluene	ug/L	42.0	50	50	88.4	86.8	93	90	52-132	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	46.0	45.7	92	91	50-137	1	20	

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REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663276 3663277

Parameter	Units	50378097038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	ND	50	50	46.0	45.2	92	90	49-140	2	20	
Vinyl chloride	ug/L	ND	50	50	45.5	44.0	91	88	41-147	3	20	
Xylene (Total)	ug/L	119	150	150	245	244	84	83	44-138	1	20	
4-Bromofluorobenzene (S)	%.						95	96	79-124			
Dibromofluoromethane (S)	%.						98	98	82-128			
Toluene-d8 (S)	%.						101	102	73-122			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663278 3663279

Parameter	Units	50377912027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.49	50	50	47.7	46.9	95	94	47-145	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	45.2	41.1	90	82	49-133	9	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	46.5	46.2	93	92	53-144	1	20	
1,2,4-Trimethylbenzene	ug/L	7.1	50	50	51.7	51.4	89	89	41-131	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.65	50	50	46.7	44.8	93	90	55-133	4	20	
1,2-Dichloroethane	ug/L	<0.39	50	50	46.4	47.2	93	94	50-138	2	20	
1,2-Dichloropropane	ug/L	<0.37	50	50	48.0	47.2	96	94	54-139	2	20	
Benzene	ug/L	241	50	50	264	275	46	68	53-138	4	20	M1
Chlorobenzene	ug/L	<0.32	50	50	45.8	45.8	92	92	52-131	0	20	
Chloroform	ug/L	<0.73	50	50	60.1	59.5	120	119	54-138	1	20	
cis-1,2-Dichloroethene	ug/L	<0.38	50	50	42.6	43.5	85	87	50-141	2	20	
Ethylbenzene	ug/L	13.3	50	50	58.9	60.2	91	94	50-136	2	20	
Isopropylbenzene (Cumene)	ug/L	14.8	50	50	54.5	55.3	79	81	46-137	1	20	
Methyl-tert-butyl ether	ug/L	<0.30	50	50	46.3	43.8	93	88	47-135	5	20	
n-Hexane	ug/L	106	50	50	133	138	53	63	35-137	4	20	
Naphthalene	ug/L	2.7	50	50	51.3	49.5	97	94	34-152	4	20	
Tetrachloroethene	ug/L	<0.44	50	50	45.7	45.2	91	90	44-138	1	20	
Toluene	ug/L	9.7	50	50	54.5	53.9	90	88	52-132	1	20	
trans-1,2-Dichloroethene	ug/L	<0.66	50	50	42.2	41.6	84	83	50-137	1	20	
Trichloroethene	ug/L	<0.48	50	50	49.2	48.7	98	97	49-140	1	20	
Vinyl chloride	ug/L	<0.46	50	50	47.5	48.0	95	96	41-147	1	20	
Xylene (Total)	ug/L	23.0	150	150	152	154	86	87	44-138	1	20	
4-Bromofluorobenzene (S)	%.						101	103	79-124			
Dibromofluoromethane (S)	%.						96	95	82-128			H1,pH
Toluene-d8 (S)	%.						103	102	73-122			

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800772
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912001, 50377912002, 50377912003, 50377912004, 50377912006, 50377912007

METHOD BLANK: 3663292 Matrix: Solid
Associated Lab Samples: 50377912001, 50377912002, 50377912003, 50377912004, 50377912006, 50377912007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.00027	0.0050	0.00027	07/18/24 12:44	
1,1,1-Trichloroethane	mg/kg	<0.00035	0.0050	0.00035	07/18/24 12:44	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00056	0.0050	0.00056	07/18/24 12:44	
1,1,2-Trichloroethane	mg/kg	<0.00093	0.0050	0.00093	07/18/24 12:44	
1,1-Dichloroethane	mg/kg	<0.00023	0.0050	0.00023	07/18/24 12:44	
1,1-Dichloroethene	mg/kg	<0.00041	0.0050	0.00041	07/18/24 12:44	
1,1-Dichloropropene	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
1,2,3-Trichlorobenzene	mg/kg	<0.00087	0.0050	0.00087	07/18/24 12:44	
1,2,3-Trichloropropane	mg/kg	<0.0013	0.0050	0.0013	07/18/24 12:44	
1,2,4-Trichlorobenzene	mg/kg	<0.00077	0.0050	0.00077	07/18/24 12:44	
1,2,4-Trimethylbenzene	mg/kg	<0.00070	0.0050	0.00070	07/18/24 12:44	
1,2-Dibromoethane (EDB)	mg/kg	<0.00040	0.0050	0.00040	07/18/24 12:44	
1,2-Dichlorobenzene	mg/kg	<0.00029	0.0050	0.00029	07/18/24 12:44	
1,2-Dichloroethane	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
1,2-Dichloropropane	mg/kg	<0.00039	0.0050	0.00039	07/18/24 12:44	
1,3,5-Trimethylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
1,3-Dichlorobenzene	mg/kg	<0.00028	0.0050	0.00028	07/18/24 12:44	
1,3-Dichloropropane	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
1,4-Dichlorobenzene	mg/kg	<0.00030	0.0050	0.00030	07/18/24 12:44	
1-Methylnaphthalene	mg/kg	0.00060J	0.010	0.00028	07/18/24 12:44	
2,2-Dichloropropane	mg/kg	<0.0017	0.0050	0.0017	07/18/24 12:44	
2-Butanone (MEK)	mg/kg	<0.010	0.025	0.010	07/18/24 12:44	
2-Chlorotoluene	mg/kg	<0.00023	0.0050	0.00023	07/18/24 12:44	
2-Hexanone	mg/kg	<0.0022	0.10	0.0022	07/18/24 12:44	
2-Methylnaphthalene	mg/kg	<0.0028	0.010	0.0028	07/18/24 12:44	
4-Chlorotoluene	mg/kg	<0.00022	0.0050	0.00022	07/18/24 12:44	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0026	0.025	0.0026	07/18/24 12:44	
Acetone	mg/kg	<0.0054	0.10	0.0054	07/18/24 12:44	
Acrolein	mg/kg	<0.016	0.10	0.016	07/18/24 12:44	
Acrylonitrile	mg/kg	<0.0017	0.10	0.0017	07/18/24 12:44	
Benzene	mg/kg	<0.00017	0.0050	0.00017	07/18/24 12:44	
Bromobenzene	mg/kg	<0.00029	0.0050	0.00029	07/18/24 12:44	
Bromochloromethane	mg/kg	<0.00035	0.0050	0.00035	07/18/24 12:44	
Bromodichloromethane	mg/kg	<0.00030	0.0050	0.00030	07/18/24 12:44	
Bromoform	mg/kg	<0.0018	0.0050	0.0018	07/18/24 12:44	
Bromomethane	mg/kg	<0.00094	0.0050	0.00094	07/18/24 12:44	
Carbon disulfide	mg/kg	<0.00087	0.010	0.00087	07/18/24 12:44	
Carbon tetrachloride	mg/kg	<0.0014	0.0050	0.0014	07/18/24 12:44	
Chlorobenzene	mg/kg	<0.00021	0.0050	0.00021	07/18/24 12:44	
Chloroethane	mg/kg	<0.00092	0.0050	0.00092	07/18/24 12:44	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

METHOD BLANK: 3663292 Matrix: Solid
Associated Lab Samples: 50377912001, 50377912002, 50377912003, 50377912004, 50377912006, 50377912007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	mg/kg	<0.0027	0.0050	0.0027	07/18/24 12:44	
Chloromethane	mg/kg	<0.00043	0.0050	0.00043	07/18/24 12:44	
cis-1,2-Dichloroethene	mg/kg	<0.00034	0.0050	0.00034	07/18/24 12:44	
cis-1,3-Dichloropropene	mg/kg	<0.00088	0.0050	0.00088	07/18/24 12:44	
Dibromochloromethane	mg/kg	<0.00036	0.0050	0.00036	07/18/24 12:44	
Dibromomethane	mg/kg	<0.0011	0.0050	0.0011	07/18/24 12:44	
Dichlorodifluoromethane	mg/kg	<0.00037	0.0050	0.00037	07/18/24 12:44	
Ethyl methacrylate	mg/kg	<0.0030	0.10	0.0030	07/18/24 12:44	
Ethylbenzene	mg/kg	<0.00025	0.0050	0.00025	07/18/24 12:44	
Hexachloro-1,3-butadiene	mg/kg	<0.00050	0.0050	0.00050	07/18/24 12:44	
Iodomethane	mg/kg	<0.0026	0.10	0.0026	07/18/24 12:44	
Isopropylbenzene (Cumene)	mg/kg	<0.00024	0.0050	0.00024	07/18/24 12:44	
Methyl-tert-butyl ether	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
Methylene Chloride	mg/kg	<0.012	0.020	0.012	07/18/24 12:44	
n-Butylbenzene	mg/kg	<0.00038	0.0050	0.00038	07/18/24 12:44	
n-Hexane	mg/kg	<0.00054	0.0050	0.00054	07/18/24 12:44	
n-Propylbenzene	mg/kg	<0.00021	0.0050	0.00021	07/18/24 12:44	
Naphthalene	mg/kg	<0.0019	0.0050	0.0019	07/18/24 12:44	
p-Isopropyltoluene	mg/kg	<0.00031	0.0050	0.00031	07/18/24 12:44	
sec-Butylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/18/24 12:44	
Styrene	mg/kg	<0.00024	0.0050	0.00024	07/18/24 12:44	
tert-Butylbenzene	mg/kg	<0.00019	0.0050	0.00019	07/18/24 12:44	
Tetrachloroethene	mg/kg	<0.00031	0.0050	0.00031	07/18/24 12:44	
Toluene	mg/kg	<0.00046	0.0050	0.00046	07/18/24 12:44	
trans-1,2-Dichloroethene	mg/kg	<0.00046	0.0050	0.00046	07/18/24 12:44	
trans-1,3-Dichloropropene	mg/kg	<0.0011	0.0050	0.0011	07/18/24 12:44	
trans-1,4-Dichloro-2-butene	mg/kg	<0.0025	0.10	0.0025	07/18/24 12:44	
Trichloroethene	mg/kg	<0.00039	0.0050	0.00039	07/18/24 12:44	
Trichlorofluoromethane	mg/kg	<0.00040	0.0050	0.00040	07/18/24 12:44	
Vinyl acetate	mg/kg	<0.0012	0.10	0.0012	07/18/24 12:44	
Vinyl chloride	mg/kg	<0.0011	0.0050	0.0011	07/18/24 12:44	
Xylene (Total)	mg/kg	<0.0022	0.010	0.0022	07/18/24 12:44	
4-Bromofluorobenzene (S)	%.	103	63-132		07/18/24 12:44	
Dibromofluoromethane (S)	%.	99	75-135		07/18/24 12:44	1d
Toluene-d8 (S)	%.	99	65-148		07/18/24 12:44	

LABORATORY CONTROL SAMPLE: 3663293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.047	94	70-129	
1,1,1-Trichloroethane	mg/kg	0.05	0.047	95	67-134	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.042	84	67-122	
1,1,2-Trichloroethane	mg/kg	0.05	0.046	92	72-127	
1,1-Dichloroethane	mg/kg	0.05	0.044	87	72-121	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3663293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	0.05	0.047	93	57-140	
1,1-Dichloropropene	mg/kg	0.05	0.051	102	76-133	
1,2,3-Trichlorobenzene	mg/kg	0.05	0.051	102	53-139	
1,2,3-Trichloropropane	mg/kg	0.05	0.045	90	70-124	
1,2,4-Trichlorobenzene	mg/kg	0.05	0.055	110	49-136	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.048	96	60-122	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.049	98	71-126	
1,2-Dichlorobenzene	mg/kg	0.05	0.048	96	68-120	
1,2-Dichloroethane	mg/kg	0.05	0.043	86	67-129	
1,2-Dichloropropane	mg/kg	0.05	0.044	87	71-123	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.049	99	62-118	
1,3-Dichlorobenzene	mg/kg	0.05	0.048	97	65-121	
1,3-Dichloropropane	mg/kg	0.05	0.044	88	73-127	
1,4-Dichlorobenzene	mg/kg	0.05	0.049	97	66-122	
1-Methylnaphthalene	mg/kg	0.05	0.056	113	52-137	
2,2-Dichloropropane	mg/kg	0.05	0.050	101	63-137	
2-Butanone (MEK)	mg/kg	0.25	0.22	87	59-136	
2-Chlorotoluene	mg/kg	0.05	0.047	94	67-121	
2-Hexanone	mg/kg	0.25	0.20	81	62-127	
2-Methylnaphthalene	mg/kg	0.05	0.052	105	50-141	
4-Chlorotoluene	mg/kg	0.05	0.051	101	66-122	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.25	0.21	85	67-131	
Acetone	mg/kg	0.25	0.19	75	45-127	
Acrolein	mg/kg	1	0.79	79	42-158	
Acrylonitrile	mg/kg	0.25	0.21	85	69-127	
Benzene	mg/kg	0.05	0.045	90	69-125	
Bromobenzene	mg/kg	0.05	0.045	91	69-121	
Bromochloromethane	mg/kg	0.05	0.040	81	70-125	
Bromodichloromethane	mg/kg	0.05	0.046	93	77-130	
Bromoform	mg/kg	0.05	0.045	90	67-128	
Bromomethane	mg/kg	0.05	0.059	118	60-156	
Carbon disulfide	mg/kg	0.05	0.045	91	47-137	
Carbon tetrachloride	mg/kg	0.05	0.047	94	68-132	
Chlorobenzene	mg/kg	0.05	0.047	94	68-122	
Chloroethane	mg/kg	0.05	0.046	92	61-137	
Chloroform	mg/kg	0.05	0.046	91	71-124	
Chloromethane	mg/kg	0.05	0.038	77	56-131	
cis-1,2-Dichloroethene	mg/kg	0.05	0.045	91	70-123	
cis-1,3-Dichloropropene	mg/kg	0.05	0.049	97	72-136	
Dibromochloromethane	mg/kg	0.05	0.045	91	73-130	
Dibromomethane	mg/kg	0.05	0.043	86	74-123	
Dichlorodifluoromethane	mg/kg	0.05	0.032	63	23-127	
Ethyl methacrylate	mg/kg	0.05	0.048J	95	70-131	
Ethylbenzene	mg/kg	0.05	0.049	98	65-124	
Hexachloro-1,3-butadiene	mg/kg	0.05	0.051	102	52-133	
Iodomethane	mg/kg	0.05	0.049J	98	50-137	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.043	87	65-126	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3663293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	mg/kg	0.05	0.046	92	69-128	
Methylene Chloride	mg/kg	0.05	0.044	87	61-128	
n-Butylbenzene	mg/kg	0.05	0.052	103	62-127	
n-Hexane	mg/kg	0.05	0.041	82	55-123	
n-Propylbenzene	mg/kg	0.05	0.049	98	67-124	
Naphthalene	mg/kg	0.05	0.048	95	60-133	
p-Isopropyltoluene	mg/kg	0.05	0.050	101	64-124	
sec-Butylbenzene	mg/kg	0.05	0.050	100	68-124	
Styrene	mg/kg	0.05	0.046	93	68-124	
tert-Butylbenzene	mg/kg	0.05	0.050	101	69-122	
Tetrachloroethene	mg/kg	0.05	0.051	102	62-128	
Toluene	mg/kg	0.05	0.045	90	60-122	
trans-1,2-Dichloroethene	mg/kg	0.05	0.046	92	67-124	
trans-1,3-Dichloropropene	mg/kg	0.05	0.049	98	68-136	
trans-1,4-Dichloro-2-butene	mg/kg	0.05	0.044J	88	64-134	
Trichloroethene	mg/kg	0.05	0.047	94	68-128	
Trichlorofluoromethane	mg/kg	0.05	0.042	84	57-146	
Vinyl acetate	mg/kg	0.2	0.20	100	56-181	
Vinyl chloride	mg/kg	0.05	0.045	90	52-142	
Xylene (Total)	mg/kg	0.15	0.15	97	62-122	
4-Bromofluorobenzene (S)	%.			97	63-132	
Dibromofluoromethane (S)	%.			94	75-135	
Toluene-d8 (S)	%.			102	65-148	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800773
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912008, 50377912009, 50377912037

METHOD BLANK: 3663296 Matrix: Solid
Associated Lab Samples: 50377912008, 50377912009, 50377912037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.00027	0.0050	0.00027	07/19/24 00:52	
1,1,1-Trichloroethane	mg/kg	<0.00035	0.0050	0.00035	07/19/24 00:52	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00056	0.0050	0.00056	07/19/24 00:52	
1,1,2-Trichloroethane	mg/kg	<0.00093	0.0050	0.00093	07/19/24 00:52	
1,1-Dichloroethane	mg/kg	<0.00023	0.0050	0.00023	07/19/24 00:52	
1,1-Dichloroethene	mg/kg	<0.00041	0.0050	0.00041	07/19/24 00:52	
1,1-Dichloropropene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
1,2,3-Trichlorobenzene	mg/kg	<0.00087	0.0050	0.00087	07/19/24 00:52	
1,2,3-Trichloropropane	mg/kg	<0.0013	0.0050	0.0013	07/19/24 00:52	
1,2,4-Trichlorobenzene	mg/kg	<0.00077	0.0050	0.00077	07/19/24 00:52	
1,2,4-Trimethylbenzene	mg/kg	<0.00070	0.0050	0.00070	07/19/24 00:52	
1,2-Dibromoethane (EDB)	mg/kg	<0.00040	0.0050	0.00040	07/19/24 00:52	
1,2-Dichlorobenzene	mg/kg	<0.00029	0.0050	0.00029	07/19/24 00:52	
1,2-Dichloroethane	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
1,2-Dichloropropane	mg/kg	<0.00039	0.0050	0.00039	07/19/24 00:52	
1,3,5-Trimethylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
1,3-Dichlorobenzene	mg/kg	<0.00028	0.0050	0.00028	07/19/24 00:52	
1,3-Dichloropropane	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
1,4-Dichlorobenzene	mg/kg	<0.00030	0.0050	0.00030	07/19/24 00:52	
1-Methylnaphthalene	mg/kg	0.00071J	0.010	0.00028	07/19/24 00:52	
2,2-Dichloropropane	mg/kg	<0.0017	0.0050	0.0017	07/19/24 00:52	
2-Butanone (MEK)	mg/kg	<0.010	0.025	0.010	07/19/24 00:52	
2-Chlorotoluene	mg/kg	<0.00023	0.0050	0.00023	07/19/24 00:52	
2-Hexanone	mg/kg	<0.0022	0.10	0.0022	07/19/24 00:52	
2-Methylnaphthalene	mg/kg	<0.0028	0.010	0.0028	07/19/24 00:52	
4-Chlorotoluene	mg/kg	<0.00022	0.0050	0.00022	07/19/24 00:52	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0026	0.025	0.0026	07/19/24 00:52	
Acetone	mg/kg	<0.0054	0.10	0.0054	07/19/24 00:52	
Acrolein	mg/kg	<0.016	0.10	0.016	07/19/24 00:52	
Acrylonitrile	mg/kg	<0.0017	0.10	0.0017	07/19/24 00:52	
Benzene	mg/kg	<0.00017	0.0050	0.00017	07/19/24 00:52	
Bromobenzene	mg/kg	<0.00029	0.0050	0.00029	07/19/24 00:52	
Bromochloromethane	mg/kg	<0.00035	0.0050	0.00035	07/19/24 00:52	
Bromodichloromethane	mg/kg	<0.00030	0.0050	0.00030	07/19/24 00:52	
Bromoform	mg/kg	<0.0018	0.0050	0.0018	07/19/24 00:52	
Bromomethane	mg/kg	<0.00094	0.0050	0.00094	07/19/24 00:52	
Carbon disulfide	mg/kg	<0.00087	0.010	0.00087	07/19/24 00:52	
Carbon tetrachloride	mg/kg	<0.0014	0.0050	0.0014	07/19/24 00:52	
Chlorobenzene	mg/kg	<0.00021	0.0050	0.00021	07/19/24 00:52	
Chloroethane	mg/kg	<0.00092	0.0050	0.00092	07/19/24 00:52	

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REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

METHOD BLANK: 3663296 Matrix: Solid
Associated Lab Samples: 50377912008, 50377912009, 50377912037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	mg/kg	<0.0027	0.0050	0.0027	07/19/24 00:52	
Chloromethane	mg/kg	<0.00043	0.0050	0.00043	07/19/24 00:52	
cis-1,2-Dichloroethene	mg/kg	<0.00034	0.0050	0.00034	07/19/24 00:52	
cis-1,3-Dichloropropene	mg/kg	<0.00088	0.0050	0.00088	07/19/24 00:52	
Dibromochloromethane	mg/kg	<0.00036	0.0050	0.00036	07/19/24 00:52	
Dibromomethane	mg/kg	<0.0011	0.0050	0.0011	07/19/24 00:52	
Dichlorodifluoromethane	mg/kg	<0.00037	0.0050	0.00037	07/19/24 00:52	
Ethyl methacrylate	mg/kg	<0.0030	0.10	0.0030	07/19/24 00:52	
Ethylbenzene	mg/kg	<0.00025	0.0050	0.00025	07/19/24 00:52	
Hexachloro-1,3-butadiene	mg/kg	<0.00050	0.0050	0.00050	07/19/24 00:52	
Iodomethane	mg/kg	<0.0026	0.10	0.0026	07/19/24 00:52	
Isopropylbenzene (Cumene)	mg/kg	<0.00024	0.0050	0.00024	07/19/24 00:52	
Methyl-tert-butyl ether	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
Methylene Chloride	mg/kg	<0.012	0.020	0.012	07/19/24 00:52	
n-Butylbenzene	mg/kg	<0.00038	0.0050	0.00038	07/19/24 00:52	
n-Hexane	mg/kg	<0.00049	0.0050	0.00049	07/19/24 00:52	
n-Propylbenzene	mg/kg	<0.00021	0.0050	0.00021	07/19/24 00:52	
Naphthalene	mg/kg	<0.0019	0.0050	0.0019	07/19/24 00:52	
p-Isopropyltoluene	mg/kg	<0.00031	0.0050	0.00031	07/19/24 00:52	
sec-Butylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 00:52	
Styrene	mg/kg	<0.00024	0.0050	0.00024	07/19/24 00:52	
tert-Butylbenzene	mg/kg	<0.00019	0.0050	0.00019	07/19/24 00:52	
Tetrachloroethene	mg/kg	<0.00031	0.0050	0.00031	07/19/24 00:52	
Toluene	mg/kg	<0.00046	0.0050	0.00046	07/19/24 00:52	
trans-1,2-Dichloroethene	mg/kg	<0.00046	0.0050	0.00046	07/19/24 00:52	
trans-1,3-Dichloropropene	mg/kg	<0.0011	0.0050	0.0011	07/19/24 00:52	
trans-1,4-Dichloro-2-butene	mg/kg	<0.0025	0.10	0.0025	07/19/24 00:52	
Trichloroethene	mg/kg	<0.00039	0.0050	0.00039	07/19/24 00:52	
Trichlorofluoromethane	mg/kg	<0.00040	0.0050	0.00040	07/19/24 00:52	
Vinyl acetate	mg/kg	<0.0012	0.10	0.0012	07/19/24 00:52	
Vinyl chloride	mg/kg	<0.0011	0.0050	0.0011	07/19/24 00:52	
Xylene (Total)	mg/kg	<0.0022	0.010	0.0022	07/19/24 00:52	
4-Bromofluorobenzene (S)	%.	100	63-132		07/19/24 00:52	
Dibromofluoromethane (S)	%.	97	75-135		07/19/24 00:52	
Toluene-d8 (S)	%.	99	65-148		07/19/24 00:52	

LABORATORY CONTROL SAMPLE: 3663297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	0.05	0.046	92	67-134	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.043	85	67-122	
1,1-Dichloroethene	mg/kg	0.05	0.046	92	57-140	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.044	88	60-122	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.049	97	71-126	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3663297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/kg	0.05	0.045	90	67-129	
1,2-Dichloropropane	mg/kg	0.05	0.044	88	71-123	
Benzene	mg/kg	0.05	0.045	89	69-125	
Chlorobenzene	mg/kg	0.05	0.045	90	68-122	
Chloroform	mg/kg	0.05	0.046	92	71-124	
cis-1,2-Dichloroethene	mg/kg	0.05	0.046	91	70-123	
Ethylbenzene	mg/kg	0.05	0.047	94	65-124	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.040	80	65-126	
Methyl-tert-butyl ether	mg/kg	0.05	0.047	94	69-128	
n-Hexane	mg/kg	0.05	0.045	89	55-123	
Naphthalene	mg/kg	0.05	0.043	87	60-133	
Tetrachloroethene	mg/kg	0.05	0.047	95	62-128	
Toluene	mg/kg	0.05	0.045	90	60-122	
trans-1,2-Dichloroethene	mg/kg	0.05	0.045	89	67-124	
Trichloroethene	mg/kg	0.05	0.045	89	68-128	
Vinyl chloride	mg/kg	0.05	0.046	93	52-142	
Xylene (Total)	mg/kg	0.15	0.13	86	62-122	
4-Bromofluorobenzene (S)	%.			99	63-132	
Dibromofluoromethane (S)	%.			96	75-135	
Toluene-d8 (S)	%.			101	65-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663298 3663299

Parameter	Units	50377912008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	<0.019	2.7	2.7	2.5	2.5	91	91	52-148	0	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.030	2.7	2.7	6.2	6.7	227	245	24-166	8	20	M1
1,1-Dichloroethene	mg/kg	<0.022	2.7	2.7	2.4	2.5	88	91	39-162	3	20	
1,2,4-Trimethylbenzene	mg/kg	<0.038	2.7	2.7	2.4	2.6	87	95	12-157	8	20	
1,2-Dibromoethane (EDB)	mg/kg	<0.022	2.7	2.7	2.7	2.7	99	99	36-141	0	20	
1,2-Dichloroethane	mg/kg	<0.014	2.7	2.7	2.4	2.4	89	90	48-138	0	20	
1,2-Dichloropropane	mg/kg	<0.021	2.7	2.7	2.5	2.5	90	92	45-140	2	20	
Benzene	mg/kg	<0.0094	2.7	2.7	2.4	2.5	90	93	48-137	3	20	
Chlorobenzene	mg/kg	<0.011	2.7	2.7	2.5	2.7	92	98	28-136	6	20	
Chloroform	mg/kg	<0.15	2.7	2.7	2.5	2.5	90	92	54-136	2	20	
cis-1,2-Dichloroethene	mg/kg	<0.018	2.7	2.7	2.4	2.5	89	91	52-132	3	20	
Ethylbenzene	mg/kg	<0.014	2.7	2.7	2.6	2.7	96	100	24-150	4	20	
Isopropylbenzene (Cumene)	mg/kg	1.0	2.7	2.7	3.1	3.2	77	79	30-144	2	20	
Methyl-tert-butyl ether	mg/kg	<0.014	2.7	2.7	2.7	2.6	99	95	57-141	4	20	
n-Hexane	mg/kg	0.52	2.7	2.7	2.8	2.8	84	83	22-150	1	20	
Naphthalene	mg/kg	<0.10	2.7	2.7	2.6	2.8	93	102	10-132	9	20	
Tetrachloroethene	mg/kg	<0.017	2.7	2.7	2.8	2.9	101	105	26-159	4	20	
Toluene	mg/kg	<0.025	2.7	2.7	2.6	2.6	95	97	28-150	1	20	
trans-1,2-Dichloroethene	mg/kg	<0.025	2.7	2.7	2.4	2.4	88	87	50-134	2	20	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3663298 3663299

Parameter	Units	50377912008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	mg/kg	<0.021	2.7	2.7	2.5	2.6	90	96	33-155	6	20	
Vinyl chloride	mg/kg	<0.059	2.7	2.7	2.5	2.6	92	95	37-161	4	20	
Xylene (Total)	mg/kg	<0.12	8.3	8.3	7.4	7.7	90	94	25-142	5	20	
4-Bromofluorobenzene (S)	%.						115	118	63-132			
Dibromofluoromethane (S)	%.						95	94	75-135			
Toluene-d8 (S)	%.						117	117	65-148			

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800956
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50377912005

METHOD BLANK: 3664195 Matrix: Solid
Associated Lab Samples: 50377912005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.00033	0.0050	0.00033	07/19/24 12:21	
1,1,1-Trichloroethane	mg/kg	<0.00031	0.0050	0.00031	07/19/24 12:21	
1,1,2,2-Tetrachloroethane	mg/kg	<0.00067	0.0050	0.00067	07/19/24 12:21	
1,1,2-Trichloroethane	mg/kg	<0.00069	0.0050	0.00069	07/19/24 12:21	
1,1-Dichloroethane	mg/kg	<0.00022	0.0050	0.00022	07/19/24 12:21	
1,1-Dichloroethene	mg/kg	<0.00037	0.0050	0.00037	07/19/24 12:21	
1,1-Dichloropropene	mg/kg	<0.00024	0.0050	0.00024	07/19/24 12:21	
1,2,3-Trichlorobenzene	mg/kg	<0.00060	0.0050	0.00060	07/19/24 12:21	
1,2,3-Trichloropropane	mg/kg	<0.0017	0.0050	0.0017	07/19/24 12:21	
1,2,4-Trichlorobenzene	mg/kg	<0.00055	0.0050	0.00055	07/19/24 12:21	
1,2,4-Trimethylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 12:21	
1,2-Dibromoethane (EDB)	mg/kg	<0.00065	0.0050	0.00065	07/19/24 12:21	
1,2-Dichlorobenzene	mg/kg	<0.00032	0.0050	0.00032	07/19/24 12:21	
1,2-Dichloroethane	mg/kg	<0.00025	0.0050	0.00025	07/19/24 12:21	
1,2-Dichloropropane	mg/kg	<0.00046	0.0050	0.00046	07/19/24 12:21	
1,3,5-Trimethylbenzene	mg/kg	<0.00028	0.0050	0.00028	07/19/24 12:21	
1,3-Dichlorobenzene	mg/kg	<0.00032	0.0050	0.00032	07/19/24 12:21	
1,3-Dichloropropane	mg/kg	<0.00029	0.0050	0.00029	07/19/24 12:21	
1,4-Dichlorobenzene	mg/kg	<0.00034	0.0050	0.00034	07/19/24 12:21	
1-Methylnaphthalene	mg/kg	<0.0020	0.010	0.0020	07/19/24 12:21	
2,2-Dichloropropane	mg/kg	<0.0017	0.0050	0.0017	07/19/24 12:21	
2-Butanone (MEK)	mg/kg	<0.0071	0.025	0.0071	07/19/24 12:21	
2-Chlorotoluene	mg/kg	<0.00031	0.0050	0.00031	07/19/24 12:21	
2-Hexanone	mg/kg	<0.0023	0.10	0.0023	07/19/24 12:21	
2-Methylnaphthalene	mg/kg	<0.0020	0.010	0.0020	07/19/24 12:21	
4-Chlorotoluene	mg/kg	<0.00034	0.0050	0.00034	07/19/24 12:21	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.0017	0.025	0.0017	07/19/24 12:21	
Acetone	mg/kg	<0.014	0.10	0.014	07/19/24 12:21	
Acrolein	mg/kg	<0.019	0.10	0.019	07/19/24 12:21	
Acrylonitrile	mg/kg	<0.0019	0.10	0.0019	07/19/24 12:21	
Benzene	mg/kg	<0.00025	0.0050	0.00025	07/19/24 12:21	
Bromobenzene	mg/kg	<0.00036	0.0050	0.00036	07/19/24 12:21	
Bromochloromethane	mg/kg	<0.00040	0.0050	0.00040	07/19/24 12:21	
Bromodichloromethane	mg/kg	<0.00037	0.0050	0.00037	07/19/24 12:21	
Bromoform	mg/kg	<0.00040	0.0050	0.00040	07/19/24 12:21	
Bromomethane	mg/kg	<0.00048	0.0050	0.00048	07/19/24 12:21	
Carbon disulfide	mg/kg	<0.00066	0.010	0.00066	07/19/24 12:21	
Carbon tetrachloride	mg/kg	<0.00029	0.0050	0.00029	07/19/24 12:21	
Chlorobenzene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 12:21	
Chloroethane	mg/kg	<0.00069	0.0050	0.00069	07/19/24 12:21	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

METHOD BLANK: 3664195 Matrix: Solid
Associated Lab Samples: 50377912005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	mg/kg	<0.0022	0.0050	0.0022	07/19/24 12:21	
Chloromethane	mg/kg	<0.00033	0.0050	0.00033	07/19/24 12:21	
cis-1,2-Dichloroethene	mg/kg	<0.00034	0.0050	0.00034	07/19/24 12:21	
cis-1,3-Dichloropropene	mg/kg	<0.00027	0.0050	0.00027	07/19/24 12:21	
Dibromochloromethane	mg/kg	<0.00039	0.0050	0.00039	07/19/24 12:21	
Dibromomethane	mg/kg	<0.00059	0.0050	0.00059	07/19/24 12:21	
Dichlorodifluoromethane	mg/kg	<0.00033	0.0050	0.00033	07/19/24 12:21	
Ethyl methacrylate	mg/kg	<0.0028	0.10	0.0028	07/19/24 12:21	
Ethylbenzene	mg/kg	<0.00024	0.0050	0.00024	07/19/24 12:21	
Hexachloro-1,3-butadiene	mg/kg	<0.00033	0.0050	0.00033	07/19/24 12:21	
Iodomethane	mg/kg	<0.00047	0.10	0.00047	07/19/24 12:21	
Isopropylbenzene (Cumene)	mg/kg	<0.00031	0.0050	0.00031	07/19/24 12:21	
Methyl-tert-butyl ether	mg/kg	<0.00025	0.0050	0.00025	07/19/24 12:21	
Methylene Chloride	mg/kg	<0.012	0.020	0.012	07/19/24 12:21	
n-Butylbenzene	mg/kg	<0.00035	0.0050	0.00035	07/19/24 12:21	
n-Hexane	mg/kg	<0.00054	0.0050	0.00054	07/19/24 12:21	
n-Propylbenzene	mg/kg	<0.00028	0.0050	0.00028	07/19/24 12:21	
Naphthalene	mg/kg	<0.00088	0.0050	0.00088	07/19/24 12:21	
p-Isopropyltoluene	mg/kg	<0.00030	0.0050	0.00030	07/19/24 12:21	
sec-Butylbenzene	mg/kg	<0.00028	0.0050	0.00028	07/19/24 12:21	
Styrene	mg/kg	<0.00032	0.0050	0.00032	07/19/24 12:21	
tert-Butylbenzene	mg/kg	<0.00026	0.0050	0.00026	07/19/24 12:21	
Tetrachloroethene	mg/kg	<0.00028	0.0050	0.00028	07/19/24 12:21	
Toluene	mg/kg	<0.0013	0.0050	0.0013	07/19/24 12:21	
trans-1,2-Dichloroethene	mg/kg	<0.00051	0.0050	0.00051	07/19/24 12:21	
trans-1,3-Dichloropropene	mg/kg	<0.0010	0.0050	0.0010	07/19/24 12:21	
trans-1,4-Dichloro-2-butene	mg/kg	<0.0022	0.10	0.0022	07/19/24 12:21	
Trichloroethene	mg/kg	<0.00053	0.0050	0.00053	07/19/24 12:21	
Trichlorofluoromethane	mg/kg	<0.00035	0.0050	0.00035	07/19/24 12:21	
Vinyl acetate	mg/kg	<0.0010	0.10	0.0010	07/19/24 12:21	
Vinyl chloride	mg/kg	<0.00025	0.0050	0.00025	07/19/24 12:21	
Xylene (Total)	mg/kg	<0.00066	0.010	0.00066	07/19/24 12:21	
4-Bromofluorobenzene (S)	%.	98	63-132		07/19/24 12:21	
Dibromofluoromethane (S)	%.	94	75-135		07/19/24 12:21	1d
Toluene-d8 (S)	%.	96	65-148		07/19/24 12:21	

LABORATORY CONTROL SAMPLE: 3664196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.05	0.042	84	70-129	
1,1,1-Trichloroethane	mg/kg	0.05	0.043	86	67-134	
1,1,2,2-Tetrachloroethane	mg/kg	0.05	0.039	78	67-122	
1,1,2-Trichloroethane	mg/kg	0.05	0.040	81	72-127	
1,1-Dichloroethane	mg/kg	0.05	0.041	83	72-121	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3664196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	0.05	0.047	93	57-140	
1,1-Dichloropropene	mg/kg	0.05	0.047	95	76-133	
1,2,3-Trichlorobenzene	mg/kg	0.05	0.046	93	53-139	
1,2,3-Trichloropropane	mg/kg	0.05	0.041	81	70-124	
1,2,4-Trichlorobenzene	mg/kg	0.05	0.045	90	49-136	
1,2,4-Trimethylbenzene	mg/kg	0.05	0.041	83	60-122	
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.043	86	71-126	
1,2-Dichlorobenzene	mg/kg	0.05	0.041	83	68-120	
1,2-Dichloroethane	mg/kg	0.05	0.040	80	67-129	
1,2-Dichloropropane	mg/kg	0.05	0.041	83	71-123	
1,3,5-Trimethylbenzene	mg/kg	0.05	0.042	84	62-118	
1,3-Dichlorobenzene	mg/kg	0.05	0.043	86	65-121	
1,3-Dichloropropane	mg/kg	0.05	0.041	83	73-127	
1,4-Dichlorobenzene	mg/kg	0.05	0.043	86	66-122	
1-Methylnaphthalene	mg/kg	0.05	0.043	86	52-137	
2,2-Dichloropropane	mg/kg	0.05	0.047	95	63-137	
2-Butanone (MEK)	mg/kg	0.25	0.16	65	59-136	
2-Chlorotoluene	mg/kg	0.05	0.042	83	67-121	
2-Hexanone	mg/kg	0.25	0.18	71	62-127	
2-Methylnaphthalene	mg/kg	0.05	0.040	80	50-141	
4-Chlorotoluene	mg/kg	0.05	0.043	86	66-122	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.25	0.19	76	67-131	
Acetone	mg/kg	0.25	0.15	60	45-127	
Acrolein	mg/kg	1	0.89	89	42-158	
Acrylonitrile	mg/kg	0.25	0.20	82	69-127	
Benzene	mg/kg	0.05	0.044	87	69-125	
Bromobenzene	mg/kg	0.05	0.039	79	69-121	
Bromochloromethane	mg/kg	0.05	0.039	79	70-125	
Bromodichloromethane	mg/kg	0.05	0.042	84	77-130	
Bromoform	mg/kg	0.05	0.038	76	67-128	
Bromomethane	mg/kg	0.05	0.055	111	60-156	
Carbon disulfide	mg/kg	0.05	0.044	88	47-137	
Carbon tetrachloride	mg/kg	0.05	0.043	85	68-132	
Chlorobenzene	mg/kg	0.05	0.041	82	68-122	
Chloroethane	mg/kg	0.05	0.047	94	61-137	
Chloroform	mg/kg	0.05	0.042	84	71-124	
Chloromethane	mg/kg	0.05	0.039	77	56-131	
cis-1,2-Dichloroethene	mg/kg	0.05	0.045	89	70-123	
cis-1,3-Dichloropropene	mg/kg	0.05	0.041	81	72-136	
Dibromochloromethane	mg/kg	0.05	0.040	80	73-130	
Dibromomethane	mg/kg	0.05	0.042	84	74-123	
Dichlorodifluoromethane	mg/kg	0.05	0.029	59	23-127	
Ethyl methacrylate	mg/kg	0.05	0.042J	84	70-131	
Ethylbenzene	mg/kg	0.05	0.043	85	65-124	
Hexachloro-1,3-butadiene	mg/kg	0.05	0.047	93	52-133	
Iodomethane	mg/kg	0.05	0.046J	93	50-137	
Isopropylbenzene (Cumene)	mg/kg	0.05	0.037	75	65-126	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3664196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	mg/kg	0.05	0.042	84	69-128	
Methylene Chloride	mg/kg	0.05	0.038	75	61-128	
n-Butylbenzene	mg/kg	0.05	0.044	88	62-127	
n-Hexane	mg/kg	0.05	0.039	79	55-123	
n-Propylbenzene	mg/kg	0.05	0.043	86	67-124	
Naphthalene	mg/kg	0.05	0.044	87	60-133	
p-Isopropyltoluene	mg/kg	0.05	0.044	88	64-124	
sec-Butylbenzene	mg/kg	0.05	0.043	86	68-124	
Styrene	mg/kg	0.05	0.042	83	68-124	
tert-Butylbenzene	mg/kg	0.05	0.043	86	69-122	
Tetrachloroethene	mg/kg	0.05	0.044	88	62-128	
Toluene	mg/kg	0.05	0.040	80	60-122	
trans-1,2-Dichloroethene	mg/kg	0.05	0.043	87	67-124	
trans-1,3-Dichloropropene	mg/kg	0.05	0.042	84	68-136	
trans-1,4-Dichloro-2-butene	mg/kg	0.05	0.039J	78	64-134	
Trichloroethene	mg/kg	0.05	0.042	83	68-128	
Trichlorofluoromethane	mg/kg	0.05	0.046	91	57-146	
Vinyl acetate	mg/kg	0.2	0.18	88	56-181	
Vinyl chloride	mg/kg	0.05	0.044	88	52-142	
Xylene (Total)	mg/kg	0.15	0.12	81	62-122	
4-Bromofluorobenzene (S)	%.			97	63-132	
Dibromofluoromethane (S)	%.			99	75-135	
Toluene-d8 (S)	%.			98	65-148	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800042
QC Batch Method: EPA 3511
Analysis Method: EPA 8270 by SIM 40E
Analysis Description: 8270 Water PAH 40 by SIM MSSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912024, 50377912025, 50377912026, 50377912027, 50377912028, 50377912029, 50377912036

METHOD BLANK: 3660431 Matrix: Water
Associated Lab Samples: 50377912024, 50377912025, 50377912026, 50377912027, 50377912028, 50377912029, 50377912036

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.087	1.0	0.087	07/15/24 21:44	
2-Methylnaphthalene	ug/L	<0.098	1.0	0.098	07/15/24 21:44	
Acenaphthene	ug/L	<0.094	1.0	0.094	07/15/24 21:44	
Acenaphthylene	ug/L	<0.073	1.0	0.073	07/15/24 21:44	
Anthracene	ug/L	<0.081	0.10	0.081	07/15/24 21:44	
Benzo(a)anthracene	ug/L	<0.065	0.10	0.065	07/15/24 21:44	
Benzo(a)pyrene	ug/L	<0.070	0.10	0.070	07/15/24 21:44	
Benzo(b)fluoranthene	ug/L	<0.065	0.10	0.065	07/15/24 21:44	
Benzo(g,h,i)perylene	ug/L	<0.091	0.10	0.091	07/15/24 21:44	
Benzo(k)fluoranthene	ug/L	<0.068	0.10	0.068	07/15/24 21:44	
Chrysene	ug/L	<0.061	0.50	0.061	07/15/24 21:44	
Dibenz(a,h)anthracene	ug/L	<0.076	0.10	0.076	07/15/24 21:44	
Fluoranthene	ug/L	<0.074	1.0	0.074	07/15/24 21:44	
Fluorene	ug/L	<0.096	1.0	0.096	07/15/24 21:44	
Indeno(1,2,3-cd)pyrene	ug/L	<0.058	0.10	0.058	07/15/24 21:44	
Naphthalene	ug/L	<0.41	1.0	0.41	07/15/24 21:44	
Phenanthrene	ug/L	<0.10	1.0	0.10	07/15/24 21:44	
Pyrene	ug/L	<0.099	1.0	0.099	07/15/24 21:44	
2-Fluorobiphenyl (S)	%.	96	43-129		07/15/24 21:44	
p-Terphenyl-d14 (S)	%.	129	64-162		07/15/24 21:44	

LABORATORY CONTROL SAMPLE: 3660432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	25	24.2	97	55-123	
2-Methylnaphthalene	ug/L	25	20.2	81	49-116	
Acenaphthene	ug/L	25	23.1	92	65-121	
Acenaphthylene	ug/L	25	28.1	112	57-131	
Anthracene	ug/L	25	23.6	94	45-133	
Benzo(a)anthracene	ug/L	25	27.1	108	74-147	
Benzo(a)pyrene	ug/L	25	28.4	114	79-132	
Benzo(b)fluoranthene	ug/L	25	27.6	110	80-157	
Benzo(g,h,i)perylene	ug/L	25	26.4	105	70-131	
Benzo(k)fluoranthene	ug/L	25	30.9	124	71-158	
Chrysene	ug/L	25	29.5	118	65-135	
Dibenz(a,h)anthracene	ug/L	25	24.8	99	75-141	
Fluoranthene	ug/L	25	32.5	130	85-139	
Fluorene	ug/L	25	27.4	110	74-129	
Indeno(1,2,3-cd)pyrene	ug/L	25	25.0	100	65-133	

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3660432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	25	22.1	88	60-114	
Phenanthrene	ug/L	25	28.4	114	82-128	
Pyrene	ug/L	25	28.3	113	70-145	
2-Fluorobiphenyl (S)	%.			97	43-129	
p-Terphenyl-d14 (S)	%.			124	64-162	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660433 3660434

Parameter	Units	50377915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	15.1	25	24.6	33.1	29.6	72	59	35-144	11	20	
2-Methylnaphthalene	ug/L	1.3	25	24.6	20.1	18.9	75	71	38-130	6	20	
Acenaphthene	ug/L	ND	25	24.6	22.7	21.8	90	88	52-131	4	20	
Acenaphthylene	ug/L	ND	25	24.6	27.6	27.1	111	110	57-120	2	20	
Anthracene	ug/L	ND	25	24.6	22.9	22.5	92	91	43-123	2	20	
Benzo(a)anthracene	ug/L	ND	25	24.6	26.6	26.8	107	109	79-132	1	20	
Benzo(a)pyrene	ug/L	ND	25	24.6	27.6	27.5	110	112	75-125	0	20	
Benzo(b)fluoranthene	ug/L	ND	25	24.6	26.7	26.7	107	108	79-149	0	20	
Benzo(g,h,i)perylene	ug/L	ND	25	24.6	25.7	26.0	103	106	48-156	1	20	
Benzo(k)fluoranthene	ug/L	ND	25	24.6	29.9	29.2	120	118	81-150	2	20	
Chrysene	ug/L	ND	25	24.6	28.5	28.6	114	116	78-130	0	20	
Dibenz(a,h)anthracene	ug/L	ND	25	24.6	23.9	24.4	96	99	62-149	2	20	
Fluoranthene	ug/L	ND	25	24.6	32.1	30.6	128	124	74-141	5	20	
Fluorene	ug/L	ND	25	24.6	26.9	25.7	108	104	56-145	5	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	25	24.6	23.9	24.6	96	100	51-146	3	20	
Naphthalene	ug/L	ND	25	24.6	23.3	22.3	93	91	31-147	4	20	
Phenanthrene	ug/L	ND	25	24.6	28.1	27.5	112	111	77-130	2	20	
Pyrene	ug/L	ND	25	24.6	27.3	27.5	109	111	75-150	1	20	
2-Fluorobiphenyl (S)	%.						93	97	43-129			
p-Terphenyl-d14 (S)	%.						117	121	64-162			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660435 3660436

Parameter	Units	50377912027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	12.5	25.4	27	38.2	37.9	101	94	35-144	1	20	
2-Methylnaphthalene	ug/L	14.1	25.4	27	35.7	35.8	85	80	38-130	0	20	
Acenaphthene	ug/L	0.13J	25.4	27	23.7	25.4	92	94	52-131	7	20	
Acenaphthylene	ug/L	<0.072	25.4	27	28.7	30.6	113	114	57-120	6	20	
Anthracene	ug/L	<0.080	25.4	27	24.8	25.8	97	96	43-123	4	20	
Benzo(a)anthracene	ug/L	<0.064	25.4	27	28.4	29.7	112	110	79-132	4	20	
Benzo(a)pyrene	ug/L	<0.069	25.4	27	28.7	30.0	113	111	75-125	4	20	
Benzo(b)fluoranthene	ug/L	<0.064	25.4	27	28.5	29.6	112	110	79-149	4	20	
Benzo(g,h,i)perylene	ug/L	<0.090	25.4	27	26.5	27.3	104	101	48-156	3	20	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3660435 3660436

Parameter	Units	50377912027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(k)fluoranthene	ug/L	<0.067	25.4	27	29.5	31.1	116	115	81-150	5	20	
Chrysene	ug/L	<0.060	25.4	27	29.3	30.4	115	113	78-130	4	20	
Dibenz(a,h)anthracene	ug/L	<0.075	25.4	27	28.9	26.6	113	99	62-149	8	20	
Fluoranthene	ug/L	<0.073	25.4	27	31.6	32.5	124	121	74-141	3	20	
Fluorene	ug/L	<0.095	25.4	27	28.4	29.6	111	110	56-145	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	<0.057	25.4	27	25.2	26.2	99	97	51-146	4	20	
Naphthalene	ug/L	2.6	25.4	27	25.7	27.2	91	91	31-147	5	20	
Phenanthrene	ug/L	<0.10	25.4	27	29.0	30.5	114	113	77-130	5	20	
Pyrene	ug/L	<0.098	25.4	27	28.9	30.7	113	114	75-150	6	20	
2-Fluorobiphenyl (S)	%.						96	96	43-129			
p-Terphenyl-d14 (S)	%.						121	121	64-162			

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800652
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912010, 50377912011, 50377912012

METHOD BLANK: 3662773 Matrix: Solid
Associated Lab Samples: 50377912010, 50377912011, 50377912012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0020	0.0050	0.0020	07/18/24 21:15	
2-Methylnaphthalene	mg/kg	<0.0047	0.0050	0.0047	07/18/24 21:15	
Acenaphthene	mg/kg	<0.0020	0.0050	0.0020	07/18/24 21:15	
Acenaphthylene	mg/kg	<0.0019	0.0050	0.0019	07/18/24 21:15	
Anthracene	mg/kg	<0.0025	0.0050	0.0025	07/18/24 21:15	
Benzo(a)anthracene	mg/kg	<0.0014	0.0050	0.0014	07/18/24 21:15	
Benzo(a)pyrene	mg/kg	<0.0030	0.0050	0.0030	07/18/24 21:15	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0050	0.0028	07/18/24 21:15	
Benzo(g,h,i)perylene	mg/kg	<0.0030	0.0050	0.0030	07/18/24 21:15	
Benzo(k)fluoranthene	mg/kg	<0.0023	0.0050	0.0023	07/18/24 21:15	
Chrysene	mg/kg	<0.0034	0.0050	0.0034	07/18/24 21:15	
Dibenz(a,h)anthracene	mg/kg	<0.0025	0.0050	0.0025	07/18/24 21:15	
Fluoranthene	mg/kg	<0.0035	0.0050	0.0035	07/18/24 21:15	
Fluorene	mg/kg	<0.0020	0.0050	0.0020	07/18/24 21:15	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0025	0.0050	0.0025	07/18/24 21:15	
Naphthalene	mg/kg	<0.0046	0.0050	0.0046	07/18/24 21:15	
Phenanthrene	mg/kg	<0.0036	0.0050	0.0036	07/18/24 21:15	
Pyrene	mg/kg	<0.0034	0.0050	0.0034	07/18/24 21:15	
2-Fluorobiphenyl (S)	%.	67	16-93		07/18/24 21:15	
p-Terphenyl-d14 (S)	%.	86	19-115		07/18/24 21:15	

LABORATORY CONTROL SAMPLE: 3662774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.67	0.52	79	49-116	
2-Methylnaphthalene	mg/kg	0.67	0.47	70	48-116	
Acenaphthene	mg/kg	0.67	0.48	73	48-118	
Acenaphthylene	mg/kg	0.67	0.56	85	50-123	
Anthracene	mg/kg	0.67	0.47	71	45-123	
Benzo(a)anthracene	mg/kg	0.67	0.49	73	52-131	
Benzo(a)pyrene	mg/kg	0.67	0.57	85	56-135	
Benzo(b)fluoranthene	mg/kg	0.67	0.54	82	52-139	
Benzo(g,h,i)perylene	mg/kg	0.67	0.48	71	49-132	
Benzo(k)fluoranthene	mg/kg	0.67	0.57	86	55-134	
Chrysene	mg/kg	0.67	0.50	75	52-127	
Dibenz(a,h)anthracene	mg/kg	0.67	0.52	78	51-137	
Fluoranthene	mg/kg	0.67	0.53	79	53-136	
Fluorene	mg/kg	0.67	0.53	80	52-124	
Indeno(1,2,3-cd)pyrene	mg/kg	0.67	0.51	76	49-139	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3662774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	0.67	0.50	74	45-110	
Phenanthrene	mg/kg	0.67	0.50	74	52-124	
Pyrene	mg/kg	0.67	0.56	84	53-129	
2-Fluorobiphenyl (S)	%.			73	16-93	
p-Terphenyl-d14 (S)	%.			87	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3662775 3662776

Parameter	Units	50377911004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	4990 ug/kg	0.82	0.82	4.6	4.9	-47	-14	20-133	6	20	M1
2-Methylnaphthalene	mg/kg	7930 ug/kg	0.82	0.82	6.9	7.5	-129	-58	16-136	8	20	M1
Acenaphthene	mg/kg	84.1 ug/kg	0.82	0.82	0.59	0.62	61	66	30-119	5	20	
Acenaphthylene	mg/kg	29.9 ug/kg	0.82	0.82	0.62	0.66	73	77	34-117	5	20	
Anthracene	mg/kg	33.2 ug/kg	0.82	0.82	0.54	0.57	62	66	16-129	5	20	
Benzo(a)anthracene	mg/kg	ND	0.82	0.82	0.51	0.55	63	68	20-136	8	20	
Benzo(a)pyrene	mg/kg	ND	0.82	0.82	0.57	0.62	70	76	20-142	8	20	
Benzo(b)fluoranthene	mg/kg	ND	0.82	0.82	0.50	0.54	62	66	17-141	7	20	
Benzo(g,h,i)perylene	mg/kg	ND	0.82	0.82	0.49	0.53	60	65	14-130	8	20	
Benzo(k)fluoranthene	mg/kg	ND	0.82	0.82	0.62	0.68	76	84	19-142	10	20	
Chrysene	mg/kg	ND	0.82	0.82	0.54	0.58	66	71	22-131	6	20	
Dibenz(a,h)anthracene	mg/kg	ND	0.82	0.82	0.52	0.57	64	70	27-124	8	20	
Fluoranthene	mg/kg	37.9 ug/kg	0.82	0.82	0.59	0.62	68	71	12-155	4	20	
Fluorene	mg/kg	132 ug/kg	0.82	0.82	0.66	0.69	65	68	25-135	4	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.82	0.82	0.51	0.55	63	68	18-133	8	20	
Naphthalene	mg/kg	5120 ug/kg	0.82	0.82	4.9	5.4	-33	28	11-130	10	20	ED,M1
Phenanthrene	mg/kg	170 ug/kg	0.82	0.82	0.68	0.69	62	64	11-147	3	20	
Pyrene	mg/kg	59.2 ug/kg	0.82	0.82	0.63	0.66	69	75	11-154	6	20	
2-Fluorobiphenyl (S)	%.						69	67	16-93			
p-Terphenyl-d14 (S)	%.						77	76	19-115			

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(317)228-3100

QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 800666
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912013, 50377912014, 50377912015, 50377912016, 50377912017, 50377912018, 50377912019, 50377912020, 50377912021, 50377912022

METHOD BLANK: 3662825 Matrix: Solid
Associated Lab Samples: 50377912013, 50377912014, 50377912015, 50377912016, 50377912017, 50377912018, 50377912019, 50377912020, 50377912021, 50377912022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0020	0.0050	0.0020	07/19/24 12:56	
2-Methylnaphthalene	mg/kg	<0.0047	0.0050	0.0047	07/19/24 12:56	
Acenaphthene	mg/kg	<0.0020	0.0050	0.0020	07/19/24 12:56	
Acenaphthylene	mg/kg	<0.0019	0.0050	0.0019	07/19/24 12:56	
Anthracene	mg/kg	<0.0025	0.0050	0.0025	07/19/24 12:56	
Benzo(a)anthracene	mg/kg	<0.0014	0.0050	0.0014	07/19/24 12:56	
Benzo(a)pyrene	mg/kg	<0.0030	0.0050	0.0030	07/19/24 12:56	
Benzo(b)fluoranthene	mg/kg	<0.0028	0.0050	0.0028	07/19/24 12:56	
Benzo(g,h,i)perylene	mg/kg	<0.0030	0.0050	0.0030	07/19/24 12:56	
Benzo(k)fluoranthene	mg/kg	<0.0023	0.0050	0.0023	07/19/24 12:56	
Chrysene	mg/kg	<0.0034	0.0050	0.0034	07/19/24 12:56	
Dibenz(a,h)anthracene	mg/kg	<0.0025	0.0050	0.0025	07/19/24 12:56	
Fluoranthene	mg/kg	<0.0035	0.0050	0.0035	07/19/24 12:56	
Fluorene	mg/kg	<0.0020	0.0050	0.0020	07/19/24 12:56	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0025	0.0050	0.0025	07/19/24 12:56	
Naphthalene	mg/kg	<0.0046	0.0050	0.0046	07/19/24 12:56	
Phenanthrene	mg/kg	<0.0036	0.0050	0.0036	07/19/24 12:56	
Pyrene	mg/kg	<0.0034	0.0050	0.0034	07/19/24 12:56	
2-Fluorobiphenyl (S)	%.	70	16-93		07/19/24 12:56	
p-Terphenyl-d14 (S)	%.	79	19-115		07/19/24 12:56	

LABORATORY CONTROL SAMPLE: 3662826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.67	0.48	71	49-116	
2-Methylnaphthalene	mg/kg	0.67	0.42	63	48-116	
Acenaphthene	mg/kg	0.67	0.46	69	48-118	
Acenaphthylene	mg/kg	0.67	0.53	80	50-123	
Anthracene	mg/kg	0.67	0.45	68	45-123	
Benzo(a)anthracene	mg/kg	0.67	0.48	72	52-131	
Benzo(a)pyrene	mg/kg	0.67	0.55	82	56-135	
Benzo(b)fluoranthene	mg/kg	0.67	0.53	79	52-139	
Benzo(g,h,i)perylene	mg/kg	0.67	0.50	75	49-132	
Benzo(k)fluoranthene	mg/kg	0.67	0.52	78	55-134	
Chrysene	mg/kg	0.67	0.49	73	52-127	
Dibenz(a,h)anthracene	mg/kg	0.67	0.54	81	51-137	
Fluoranthene	mg/kg	0.67	0.50	76	53-136	

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

LABORATORY CONTROL SAMPLE: 3662826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	mg/kg	0.67	0.49	73	52-124	
Indeno(1,2,3-cd)pyrene	mg/kg	0.67	0.52	78	49-139	
Naphthalene	mg/kg	0.67	0.48	72	45-110	
Phenanthrene	mg/kg	0.67	0.47	71	52-124	
Pyrene	mg/kg	0.67	0.51	77	53-129	
2-Fluorobiphenyl (S)	%.			71	16-93	
p-Terphenyl-d14 (S)	%.			76	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3662827 3662828

Parameter	Units	50377912020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	0.038	0.73	0.73	0.44	0.41	55	51	20-133	7	20	
2-Methylnaphthalene	mg/kg	0.035	0.73	0.73	0.39	0.37	49	46	16-136	7	20	
Acenaphthene	mg/kg	<0.011	0.73	0.73	0.37	0.39	50	53	30-119	6	20	
Acenaphthylene	mg/kg	<0.010	0.73	0.73	0.40	0.44	55	60	34-117	10	20	
Anthracene	mg/kg	0.037	0.73	0.73	0.36	0.36	45	45	16-129	0	20	
Benzo(a)anthracene	mg/kg	0.086	0.73	0.73	0.38	0.41	40	44	20-136	8	20	
Benzo(a)pyrene	mg/kg	0.11	0.73	0.73	0.41	0.45	41	47	20-142	9	20	
Benzo(b)fluoranthene	mg/kg	0.11	0.73	0.73	0.38	0.43	37	44	17-141	13	20	
Benzo(g,h,i)perylene	mg/kg	0.062	0.73	0.73	0.33	0.37	37	42	14-130	11	20	
Benzo(k)fluoranthene	mg/kg	0.039	0.73	0.73	0.38	0.42	46	52	19-142	11	20	
Chrysene	mg/kg	0.16	0.73	0.73	0.49	0.43	44	36	22-131	13	20	
Dibenz(a,h)anthracene	mg/kg	<0.013	0.73	0.73	0.34	0.38	47	52	27-124	9	20	
Fluoranthene	mg/kg	0.22	0.73	0.73	0.49	0.49	37	38	12-155	0	20	
Fluorene	mg/kg	0.040	0.73	0.73	0.41	0.41	51	50	25-135	2	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.055	0.73	0.73	0.34	0.38	39	45	18-133	12	20	
Naphthalene	mg/kg	0.12	0.73	0.73	0.57	0.43	62	43	11-130	28	20	ED,R1
Phenanthrene	mg/kg	0.27	0.73	0.73	0.76	0.48	68	29	11-147	45	20	R1
Pyrene	mg/kg	0.27	0.73	0.73	0.58	0.51	43	34	11-154	13	20	
2-Fluorobiphenyl (S)	%.						48	50	16-93			
p-Terphenyl-d14 (S)	%.						50	53	19-115			

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch:	801094	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50377912001, 50377912002, 50377912003, 50377912004, 50377912005, 50377912006, 50377912007, 50377912008, 50377912009, 50377912010, 50377912011, 50377912012, 50377912013, 50377912014, 50377912015, 50377912016, 50377912017, 50377912018

SAMPLE DUPLICATE: 3664877

Parameter	Units	50377912008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.9	19.4	3	10	N2

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QUALITY CONTROL DATA

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

QC Batch: 801270
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50377912019, 50377912020, 50377912021, 50377912022

SAMPLE DUPLICATE: 3665401

Parameter	Units	50377904007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.4	21.0	8	10	N2

SAMPLE DUPLICATE: 3665402

Parameter	Units	50377912020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	11.3	14	10	N2,R1

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QUALIFIERS

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.
B	Analyte was detected in the associated method blank.
C0	Result confirmed by second analysis.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
H1	Analysis conducted outside the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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METHOD CROSS REFERENCE TABLE

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Parameter	Matrix	Analytical Method	Preparation Method
6010 MET ICP	Water	SW-846 6010B	SW-846 3010A
8260 MSV 5035A VOA	Solid	SW-846 8260C	SW-846 5035A
8270 PAH Soil by SIM	Solid	SW-846 8270C	SW-846 3546
8270 PAH by 3511	Water	SW-846 8270C	SW-846 3511

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50377912023	**SP-3R**	EPA 3010	800177	EPA 6010	800985
50377912024	**SP-7**	EPA 3010	800177	EPA 6010	800985
50377912025	**SP-8**	EPA 3010	800177	EPA 6010	800985
50377912026	**SP-9**	EPA 3010	800177	EPA 6010	800985
50377912027	**SP-10**	EPA 3010	800177	EPA 6010	800985
50377912028	**SP-11**	EPA 3010	800177	EPA 6010	800985
50377912029	**SP-11 DUP**	EPA 3010	800177	EPA 6010	800985
50377912030	**SP-3R FF**	EPA 3010	800177	EPA 6010	800985
50377912031	**SP-7 FF**	EPA 3010	800177	EPA 6010	800985
50377912032	**SP-8 FF**	EPA 3010	800177	EPA 6010	800985
50377912033	**SP-9 FF**	EPA 3010	800177	EPA 6010	800985
50377912034	**SP-10 FF**	EPA 3010	800177	EPA 6010	800985
50377912035	**SP-11 FF**	EPA 3010	800177	EPA 6010	800985
50377912036	**EB-1**	EPA 3010	800177	EPA 6010	800985
50377912024	**SP-7**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912025	**SP-8**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912026	**SP-9**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912027	**SP-10**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912028	**SP-11**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912029	**SP-11 DUP**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912036	**EB-1**	EPA 3511	800042	EPA 8270 by SIM 40E	800140
50377912010	**SP-6 (6-7')**	EPA 3546	800652	EPA 8270 by SIM	800942
50377912011	**SP-7 (7-9')**	EPA 3546	800652	EPA 8270 by SIM	800942
50377912012	**SP-7 (10-12')**	EPA 3546	800652	EPA 8270 by SIM	800942
50377912013	**SP-7 (10-12') DUP**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912014	**SP-8 (7-10')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912015	**SP-8 (10-12')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912016	**SP-9 (7-10')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912017	**SP-9 (10-12')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912018	**SP-10 (0-2')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912019	**SP-10 (5-7')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912020	**SP-11 (0-2')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912021	**SP-11 (5-7')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912022	**SP-11 (2-4')**	EPA 3546	800666	EPA 8270 by SIM	800862
50377912024	**SP-7**	EPA 5030/8260	800764		
50377912025	**SP-8**	EPA 5030/8260	800764		
50377912026	**SP-9**	EPA 5030/8260	800764		
50377912027	**SP-10**	EPA 5030/8260	800765		
50377912028	**SP-11**	EPA 5030/8260	800764		
50377912029	**SP-11 DUP**	EPA 5030/8260	800764		
50377912036	**EB-1**	EPA 5030/8260	800765		
50377912038	**Trip Blank**	EPA 5030/8260	800765		
50377912001	**SP-10 11'**	EPA 8260	800772		
50377912002	**SP-8 6'**	EPA 8260	800772		
50377912003	**SP-8 12'**	EPA 8260	800772		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 216 S. College Ave 24-199
Pace Project No.: 50377912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50377912004	**SP-9 10.5'**	EPA 8260	800772		
50377912005	**SP-6 11'**	EPA 8260	800956		
50377912006	**SP-7 7'**	EPA 8260	800772		
50377912007	**SP-7 7' DUP**	EPA 8260	800772		
50377912008	**SP-11 7'**	EPA 8260	800773		
50377912009	**SP-3R 10'**	EPA 8260	800773		
50377912037	**Trip Blank**	EPA 8260	800773		
50377912001	**SP-10 11'**	SM 2540G	801094		
50377912002	**SP-8 6'**	SM 2540G	801094		
50377912003	**SP-8 12'**	SM 2540G	801094		
50377912004	**SP-9 10.5'**	SM 2540G	801094		
50377912005	**SP-6 11'**	SM 2540G	801094		
50377912006	**SP-7 7'**	SM 2540G	801094		
50377912007	**SP-7 7' DUP**	SM 2540G	801094		
50377912008	**SP-11 7'**	SM 2540G	801094		
50377912009	**SP-3R 10'**	SM 2540G	801094		
50377912010	**SP-6 (6-7')**	SM 2540G	801094		
50377912011	**SP-7 (7-9')**	SM 2540G	801094		
50377912012	**SP-7 (10-12')**	SM 2540G	801094		
50377912013	**SP-7 (10-12') DUP**	SM 2540G	801094		
50377912014	**SP-8 (7-10')**	SM 2540G	801094		
50377912015	**SP-8 (10-12')**	SM 2540G	801094		
50377912016	**SP-9 (7-10')**	SM 2540G	801094		
50377912017	**SP-9 (10-12')**	SM 2540G	801094		
50377912018	**SP-10 (0-2')**	SM 2540G	801094		
50377912019	**SP-10 (5-7')**	SM 2540G	801270		
50377912020	**SP-11 (0-2')**	SM 2540G	801270		
50377912021	**SP-11 (5-7')**	SM 2540G	801270		
50377912022	**SP-11 (2-4')**	SM 2540G	801270		

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Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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WO# : 50377912

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Company Name:	BCA Environmental Consultants, LLC	Contact/Report To:	Jacob Teuschler
Street Address:	7202 E. 87th St., Indianapolis, IN 46256	Phone #:	317-578-4233
		E-Mail:	jteuschler@bcaconsultants.com
		Cc E-Mail:	
Customer Project #:	#24-199		
Project Name:	216 S. College Ave	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@bcaconsultants.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	City of Bloomington
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Indiana

Data Deliverables: [ ] Level II [X] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Regina Bedel**

AcctNum / Client ID:

Table #:

Profile / Template: **1198 - 1(FF), 11(SL), 12(WT)**

Prelog / Bottle Ord. ID: **EZ 3134071**

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 8260	PAH by 8270	Total As & Pb by 6010	Field Filtered As & Pb by 6010 (HOLD)	Sample Comment
SP-10 11'	S	G	7-10	9:50			4			X				001
SP-8 6'			7-11	7:50			4			X				002
SP-8 12'				7:55			4			X				003
SP-8 10.5'				8:15			4			X				Not received
SP-9 10.5'				8:15			4			X				004
SP-6 11'				8:30			4			X				005
SP-7 7'				8:50			4			X				006
~~SP-7 DUP 10-12'~~ SP-7 7' DUP (MCS 07/26/2024)				8:50			4			X				007
SP-11 7'				9:25			12			X				008
SP-3R 10'				10:15			4			X				009

Additional Instructions from Pace®:
Terra core vials must be frozen at the lab within 48 hours of collection.
TC frozen 7-11

Collected By:
(Printed Name)

Signature:

Customer Remarks / Special Conditions / Possible Hazards:
4 MS/MSD

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	H	-.2	2.7	2.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
BCA	7/12/24 1415	Pace	7/12/24 1415
Pace	7/12/24 1540		7/12/24 15:40

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 4

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ENV-FRM-CORQ-0019_v02_110123 ©

(1)

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	BCA Environmental Consultants, LLC	Contact/Report To:	Jacob Teuschler
Street Address:	7202 E. 87th St., Indianapolis, IN 46256	Phone #:	317-578-4233
		E-Mail:	jteuschler@bcaconsultants.com
		Cc E-Mail:	
Customer Project #:	#24-199		
Project Name:	216 S. College Ave	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@bcaconsultants.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	City of Bloomington
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Indiana

Data Deliverables: [ ] Level II [X] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size ** — **Identify Container Preservative Type***** — **Analysis Requested**

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 8260	PAH by 8270	Total As & Pb by 6010	Field Filtered As & Pb by 6010 (HOLD)	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
SP-6 (6-7')	SS	G	7-10	8:25			1				X				010	
SP-7 (7-9')	SS			8:50			1				X				011	
SP-7 (10-12')				8:55			1				X				012	
SP-7 (10-12') DUP				8:55			1				X				013	
SP-8 (7-10')				7:50			1				X				014	
SP-8 (10-12')				7:55			1				X				015	
SP-9 (7-10')				8:10			1				X				016	
SP-9 (10-12')				8:15			1				X				017	
SP-10 (0-2')				9:40			1				X				018	
SP-10 (5-7')				9:45			1				X				019	

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
- Proj. Mgr: **Regina Bedel**
- AcctNum / Client ID:
- Table #:
- Profile / Template: **1198 - 1(FF), 11(SL), 12(WT)**
- Prelog / Bottle Ord. ID: **EZ 3134071**

Additional Instructions from Pace®:
Terra core vials must be frozen at the lab within 48 hours of collection.

Collected By: (Printed Name)

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	H	-.2	2.7	2.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[signature] / BCA	7/12/24 1415	[signature] Pace	7/12/24 1415	
[signature] Pace	7/12/24 1540	[signature]	7/12/24 15:40	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

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ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

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Street Address:	7202 E. 87th St., Indianapolis, IN 46256	Phone #:	317-578-4233
		E-Mail:	jteuschler@bcaconsultants.com
		Cc E-Mail:	
Customer Project #:	#24-199		
Project Name:	216 S. College Ave	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@bcaconsultants.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	City of Bloomington
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Indiana

Data Deliverables: [ ] Level II [X] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 4 | 1 | 2

Identify Container Preservative Type***

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Regina Bedel; AcctNum / Client ID:; Table #:; Profile / Template: 1198 - 1(FF), 11(SL), 12(WT); Prelog / Bottle Ord. ID: EZ 3134071

Preservation non-conformance identified for sample.

	Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 8260	PAH by 8270	Total As & Pb by 6010	Field Filtered As & Pb by 6010 (FF)	Sample Comment
A	SP-11 (0-2') MS/MSD	SS	G	7/8	9:30			3				X			020
	~~SP-11 (0-2') MS/MSD~~				~~9:30~~			~~1~~				~~X~~			
	~~SP-11 (0-2') MS/MSD~~				9:20			1				X			
	SP-11 (5-7')				9:25			1				X			021
	SP-11 (2-4')				9:20			1				X			022
	SP-3D	GW			16:30			2	1		X	X	X	X	023
	SP-7				15:35			7			X	X	X	X	024
	SP-8				16:20			7			X	X	X	X	025
	SP-9				15:48			7			X	X	X	X	026
X	SP-10 MS/MSD				13:56			21			X	X	X	X	027

Additional Instructions from Pace®:
Terra core vials must be frozen at the lab within 48 hours of collection.

Collected By: (Printed Name)

Signature:

Customer Remarks / Special Conditions / Possible Hazards:
X MS/MSD (SP-11) (0-2'), SP-10

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	H	-.2	2.7	2.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
TSCA / Pace	7/12/24 1415	Pace	7/12/24 1415
Pace	7/12/24 1540		7/12/25 1540

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 3 of 4

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ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	BCA Environmental Consultants, LLC	Contact/Report To:	Jacob Teuschler
Street Address:	7202 E. 87th St., Indianapolis, IN 46256	Phone #:	317-578-4233
		E-Mail:	jteuschler@bcaconsultants.com
		Cc E-Mail:	
Customer Project #:	#24-199		
Project Name:	216 S. College Ave	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@bcaconsultants.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	City of Bloomington
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Indiana

Data Deliverables: [ ] Level II [X] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 4 | 1 | 2 | 2

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Regina Bedel; AcctNum / Client ID:; Table #:; Profile / Template: 1198 - 1(FF), 11(SL), 12(WT); Prelog / Bottle Ord. ID: EZ 3134071

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 8260	PAH by 8270	Total As & Pb by 6010	Field Filtered As & Pb by 6010 (FF)	Sample Comment	Preservation non-conformance identified for sample.
SP-11	GW	G	7/10	14:49			7			X	X	X	X	028	
SP-11 DUP	GW	G	7/10	14:49			7			X	X	X	X	029	
~~SP-3R~~	~~GW~~	~~G~~	~~7/10~~	~~16:30~~			~~8~~			~~X~~	~~X~~	~~X~~	~~X~~		
SP-3R FF			7/10	16:30			1						X	030	
SP-7 FF				15:35			1						X	031	
SP-8-FF				16:20			1						X	032	
SP-9-FF				15:48			1						X	033	
SP-10-FF				13:56			1						X	034	
SP-11 FF				14:48			1						X	035	
EB-1							7			X	X	X		036	

Additional Instructions from Pace®:
Terra core vials must be frozen at the lab within 48 hours of collection.

Collected By: (Printed Name)

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	A	-.2	2.7	2.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
BCA	7/12/24 1415	Pace	7/12/24 1415
Pace	7/12/24 1540		7/12/24 1540

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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F-IN-Q-290-rev.27, 13Jun2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 7/12/24 17:32 JG

1. Courier: ☐FED EX ☐UPS ☐CLIENT ☑PACE ☐NOW/JETT ☐OTHER _____

2. Custody Seal on Cooler/Box Present: ☐ Yes ☑ No

(If yes)Seals Intact: ☐ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

4. Cooler Temperature(s): 2.7/2.5 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: ☐Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. Ice Type: ☑ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler?: ☐Yes ☐No
Cooler temp should be above freezing to 6°C

8. EZ Bottle Order? ☑Yes ☐No
If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	✓		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details		✓	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Present?	✓		
			Trip Blank Custody Seals?:	✓		

COMMENTS: Rcv'd terracore trip blanks that were expired (custody seal date 4/14/22) JG 7/12/24. Rcv'd trip blanks not on COC JG 7/12/24

Sample labeled SP-8 10.5' is SP-9 10.5' per Rod Manny. 7/16/24 RRB

Client sample ID updated from "SP-7 DUP 10-12'" to "SP-7 7' DUP" per client email on 07/26/2024. (MCS 07/26/2024)

COC PAGE 1 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only) SBS (DI) R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U (DG9U)	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3			1																						SL				
2				↓			↓																						↓				
3																																	
4				↓			↓																						J				
5																																	
6				3			1																						SL				
7				↓			↓																						↓				
8				↓			↓																										
9				9			3																										
10				3			1																						↓				
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER					Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit				HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1	1																											SL				
2	↓																											↓				
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 3 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU	BG1U	MeOH (only) SBS DI R	DG9H (VG9H)	VOA VIAL HS (>6mm)	VG9U (DG9U)	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
AMBER GLASS																PLASTIC									OTHER									
1	3																													SL				
2																																		
3																																		
4	1																													SL				
5	1																													↓				
6																				1										WT	✓			
7					3		3													↓										↓	↓			
8					↓		↓																											
9					↓		↓													↓											↓			
10					9		9													3										↓	pH3,587			
11																																		
12																																		

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 4 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

						AMBER GLASS							PLASTIC									OTHER										
			MeOH (only)																												
			SBS																												
			DI																												
COC Line Item	WGFU	WGKU	BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U BG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1					3		3													1									WT				
2					↓		↓													1									↓				
3																																	
4																					1								WT				
5																					↓								↓				
6																																	
7																																	
8																																	
9																					↓												
10					3		3													1									↓				
11				3	7/10/24		8:00		IDi Trip Blank																					SL				
12					3		7/10/24		8:00	IDi Trip Blank																				WT				

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

ATTACHMENT 5

PHOTOGRAPHS

Photo 1: Soil boring at VB-1/MW-1; View to the northeast

Photo 2: Soil boring at VB-2/MW-2; View to the east-southeast

Photo 3: Temporary monitoring well MW-1; View to the north

Photo 4: Example soil column at VB-1; View down

ATTACHMENT 6

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log — **Log 1 of 8**

Project: 25-183 HAND - College Square		Boring Log/Well #: VB-1/MW-1	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403		Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC		Top of Casing Elev. (ft): 754.695	Groundwater Elev. (ft): 744.915
Drilling Method: Geoprobe 7822 DT		Total Depth (ft): 13	Depth to Water (ft): 9.78
Driller: Jay McFall		PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)
0				Asphalt	10YR 2/1 (black) asphalt.	0	N/A
2			55	Crushed Limestone	10YR 6/1 (gray) crushed limestone.	0	N/A
				Fill	5YR 4/6 (yellowish red) brick.		
4				Silty Clay	10YR 4/4 (dark yellowish brown) silty clay.		
				Silty Clay	10YR 5/8 (yellowish brown) silty clay.	0	N/A
6			75	Silty Clay	10YR 6/3 (pale brown) silty clay.		
				Clay	10YR 6/2 (light brownish gray) hard clay; dry.	0	N/A
8				Clay	10YR 4/6 (dark yellowish brown) hard clay; dry.		
				Clay	7.5YR 4/6 (strong brown) hard clay; dry.	48.1	N/A
10			100	Clay	10YR 4/2 (dark grayish brown) soft clay with a strong petroleum odor; moist.		
		VB-1 (10'-12') (VOCs, PAHs, Lead, Arsenic)		Clay	10YR 2/1 (black) soft clay with a strong petroleum odor; saturated.	197.7	N/A
12			0	Bedrock	10YR 6/1 (gray) weathered limestone bedrock.	N/A	N/A

WELL DIAGRAM

Notes: Northing: 4335238.3636, Easting: 540167.4147. Soil samples (VB-1 (10'-12') (VOCs, PAHs, Lead, Arsenic)) and (VB-DUP-1 (10'-12') (VOCs, PAHs, Lead, Arsenic)) at 1400. Bedrock refusal at 13'.

Installed piezometer at this location with 10' PVC slotted screen. Screened interval 3'-13' below ground surface.

Groundwater samples (MW-1 (VOCs, PAHs, Lead, Arsenic)) and (MW-DUP-1 (VOCs, PAHs, Lead, Arsenic)) at 1515.

Ground surface elevation: 752.795'. TDD = 13'. Static water level = 744.915'. Depth to water = 9.78'. Stick-up = 1.9'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log — **Log 2 of 8**

Project: 25-183 HAND - College Square		Boring Log/Well #: VB-2/MW-2	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403		Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC		Top of Casing Elev. (ft): 752.775	Groundwater Elev. (ft): 744.435
Drilling Method: Geoprobe 7822 DT		Total Depth (ft): 16	Depth to Water (ft): 8.34
Driller: Jay McFall		PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)
0				Asphalt	10YR 2/1 (black) asphalt.	0	N/A
2			75	Crushed Limestone	10YR 6/1 (gray) crushed limestone.		
				Clay	10YR 3/3 (dark brown) soft clay with brick fragments; moist.	0	N/A
4				Clay	10YR 4/3 (brown) soft clay; moist.		
				Clay	Gley 1 5/N (gray) soft clay with 10YR 4/6 (dark yellowish brown) redox in pore linings; moist.	0	N/A
6			100	Clay	10YR 4/2 (dark grayish brown) plastic clay; less moist.		
				Clay	10YR 5/1 soft plastic clay; moist. Petroleum odor observed at 7.5' with 10YR 2/1 (black) petroleum staining.	189.3	N/A
8				Clay	10YR 4/2 (dark grayish brown) plastic clay with no odor; moist.	181.7	N/A
10		VB-2 (10'-12') (VOCs, PAHs, Lead, Arsenic)	100	Clay	10YR 3/4 (dark yellowish brown) clay; less moist.	546.1	N/A
12				Clay	10YR 3/4 (dark yellowish brown) clay with a petroleum odor; saturated.	12	N/A
14			100			16.2	N/A
16				Bedrock	10YR 5/6 (yellowish brown) weathered limestone bedrock with a minor petroleum odor; saturated.		

WELL DIAGRAM

Notes: Northing: 4335208.0267, Easting: 540167.1833. Soil sample (VB-2 (10'-12') (VOCs, PAHs, Lead, Arsenic)) at 1405.

Installed piezometer at this location with 10' PVC slotted screen. Screened interval 6'-16' below ground surface.

Groundwater sample (MW-2 (VOCs, PAHs, Lead, Arsenic)) at 1620.

Ground surface elevation: 751.035'. TDD = 16'. Static water level = 744.435'. Depth to water = 8.34'. Stick-up = 1.74'.

Bedrock refusal at 16'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log — **Log 3 of 8**

Project: 25-183 HAND - College Square		Boring Log/Well #: VB-3/MW-3	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403		Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC		Top of Casing Elev. (ft): 754.415	Groundwater Elev. (ft): 743.545
Drilling Method: Geoprobe 7822 DT		Total Depth (ft): 11.5	Depth to Water (ft): 10.87
Driller: Jay McFall		PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)
0			50	Asphalt	10YR 2/1 (black) asphalt.	0	N/A
2				Crushed Limestone	10YR 6/1 (gray) crushed limestone.	0.1	N/A
4				Clay	10YR 4/1 (dark gray) soft plastic clay.		
			100	Silty Clay	10YR 4/6 (dark yellowish brown) soft silty clay with 10YR 5/1 (gray) redox in matrix; moist.	125.1	N/A
6				Clay	10YR 5/1 (gray) plastic clay with a slight petroleum odor; moist.	540.5	N/A
8				Clay	10YR 4/4 (dark yellowish brown) clay with 10YR 5/1 (gray) redox in matrix; less moist.	390	N/A
10		VB-3 (10'-11.5') (VOCs, PAHs, Lead, Arsenic)	100	Clay	10YR 4/2 (dark grayish brown) plastic clay; less moist.	874.3	N/A
				Clay	10YR 4/2 (dark grayish brown) soft plastic clay with weathered limestone bedrock at the base; petroleum odor; saturated.		
12				Bedrock	Weathered limestone bedrock.	N/A	N/A

WELL DIAGRAM

Notes: Northing: 4335223.6687, Easting: 540157.9986. Soil sample (VB-3 (10'-11.5') (VOCs, PAHs, Lead, Arsenic)) at 1410.

Installed piezometer at this location with 10' PVC slotted screen. Screened interval 1.5'-11.5' below ground surface.

Groundwater sample (MW-3 (VOCs, PAHs, Lead, Arsenic)) at 1540.

Ground surface elevation: 752.615'. TDD = 11.5'. Static water level = 743.545'. Depth to water = 10.87'. Stick-up = 1.8'.

MS/MSD conducted at this location. Bedrock refusal at 11.5'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log — **Log 4 of 8**

Project: 25-183 HAND - College Square		Boring Log/Well #: VB-4/MW-4	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403		Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC		Top of Casing Elev. (ft): 748.391	Groundwater Elev. (ft): 741.371
Drilling Method: Geoprobe 7822 DT		Total Depth (ft): 16	Depth to Water (ft): 7.02
Driller: Jay McFall		PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)
0			50	Fill	10YR 2/1 (black) asphalt and 10YR 4/4 (dark yellowish brown) sandy fill.	0.4	N/A
2				Crushed Limestone	10YR 6/1 (gray) crushed limestone.	0.3	N/A
				Clay	10YR 5/6 (yellowish brown) soft clay; moist.		
4			75	Clay	10YR 5/8 (yellowish brown) compact plastic clay with 10YR 5/2 (grayish brown) redox in matrix.	0.4	N/A
6						0.2	N/A
8			100	Clay	10YR 5/8 (yellowish brown) compact plastic clay with 10YR 5/2 (grayish brown) redox in matrix; moist.	0.1	N/A
				Clay	10YR 4/3 (brown) clay; saturated.		
10		VB-4 (10'-12') (VOCs, PAHs, Lead, Arsenic)		Clay	10YR 6/2 (light brownish gray) clay with weathered limestone at base; saturated.	0.3	N/A
12			100			0.1	N/A
14				Clay	10YR 4/4 (dark yellowish brown) clay; saturated.	0.1	N/A
16							

WELL DIAGRAM

Notes: Northing: 4335167.1651, Easting: 540165.2197. Soil sample (VB-4 (10'-12') (VOCs, PAHs, Lead, Arsenic)) at 1415.

Installed piezometer at this location with 10' PVC slotted screen. Screened interval 6'-16' below ground surface.

Groundwater sample (MW-4 (VOCs, PAHs, Lead, Arsenic)) at 1635.

Ground surface elevation: 747.851'. TDD = 16'. Static water level = 741.371'. Depth to water = 7.02'. Stick-up = 0.54'.

Tooling deflected in subsurface due to obstruction; terminated at 16'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log **Log 5 of 8**

Project: 25-183 HAND - College Square	Boring Log/Well #: VB-4A	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403	Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev. (ft): N/A	Groundwater Elev. (ft): N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 3	Depth to Water (ft): N/A
Driller: Jay McFall	PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
0				Asphalt	10YR 2/1 (black) asphalt.	2.2	N/A	N/A
			50	Crushed Limestone	10YR 6/1 (gray) crushed limestone; more moist with depth.			
2		N/A		Fill	10YR 4/4 (dark yellowish brown) sandy fill; more moist with depth.	1.3	N/A	
			N/A	Concrete	Concrete refusal.	N/A	N/A	

Notes: Northing: 4335163.7141, Easting: 540165.0653.

Concrete refusal at 3'; Selected alternate location to advance boring.

Ground surface elevation = 747.850'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log **Log 6 of 8**

Project: 25-183 HAND - College Square	Boring Log/Well #: VB-4B	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403	Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev. (ft): N/A	Groundwater Elev. (ft): N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 3	Depth to Water (ft): N/A
Driller: Jay McFall	PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
0				Asphalt	10YR 2/1 (black) asphalt.	2.2	N/A	
			50	Crushed Limestone	10YR 6/1 (gray) crushed limestone.			
2		N/A		Fill	10YR 4/4 (dark yellowish brown) sandy fill.	1.3	N/A	N/A
			N/A	Concrete	Concrete refusal.	N/A	N/A	

Notes: Northing: 4335166.4393, Easting: 540167.6241.
Concrete refusal at 3'; Selected alternate location to advance boring.
Ground surface elevation = 747.850'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log

Project: 25-183 HAND - College Square	Boring Log/Well #: VB-4C	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403	Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC	Top of Casing Elev. (ft): N/A	Groundwater Elev. (ft): N/A
Drilling Method: Geoprobe 7822 DT	Total Depth (ft): 3	Depth to Water (ft): N/A
Driller: Jay McFall	PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
0				Asphalt	10YR 2/1 (black) asphalt.	2.2	N/A	N/A
		N/A	50	Crushed Limestone	10YR 6/1 (gray) crushed limestone.			
2				Fill	10YR 4/4 (dark yellowish brown) sandy fill.	1.3	N/A	
			N/A	Concrete	Concrete refusal; dry.	N/A	N/A	

Notes: Northing: 4335159.9655, Easting: 540166.8665.

Concrete refusal at 3'; Selected alternate location to advance boring.

Ground surface elevation = 747.850'.

VET Environmental Engineering, LLC

Well Completion Diagram/Soil Boring Log — **Log 8 of 8**

Project: 25-183 HAND - College Square		Boring Log/Well #: VB-5/MW-5	Logged By: Sara Hamidovic, MS, PE, CHMM
Project Location: 226 South College Avenue, Bloomington, Indiana 47403		Date Started: 02/23/2026	Date Finished: 02/23/2026
Drilling Contractor: Strata Environmental Contractors, LLC		Top of Casing Elev. (ft): 752.087	Groundwater Elev. (ft): N/A
Drilling Method: Geoprobe 7822 DT		Total Depth (ft): 9	Depth to Water (ft): N/A
Driller: Jay McFall		PID (ppm): MiniRAE 3000+	FID (ppm): N/A

DEPTH (feet)	SAMPLES: Sample	SAMPLES: Sample No.	REC. %	LITHOLOGY	MATERIAL DESCRIPTION	PID (ppm)	FID (ppm)	WELL DIAGRAM
0			50	Asphalt	10YR 2/1 (black) asphalt.	0.3	N/A	
				Crushed Limestone	10YR 6/1 (gray) crushed limestone.			
2				Fill	5YR 4/4 (reddish brown) brick.	0.2	N/A	
				Fill	10YR 2/1 (black) mixed granular fill material.			
4			50	Silty Clay	10YR 4/1 (dark gray) silty clay; saturated.	0.1	N/A	
6		VB-5 (6'-8') (VOCs, PAHs, Lead, Arsenic)		Silty Clay	10YR 4/3 (brown) silty clay; moist.	0	N/A	
8				Bedrock	10YR 6/1 (gray) weathered limestone bedrock.	0.1	N/A	

Notes: Northing: 4335170.4660, Easting: 540107.644. Soil sample (VB-5 (6'-8') (VOCs, PAHs, Lead, Asbestos)) at 1420.
Installed piezometer at this location with 10' PVC slotted screen. Screened interval 0'-9' below ground surface.
Ground surface elevation: 750.787'. TDD = 9'. Stick-up = 1.3'. Monitoring well dry on 2/23/26.
Bedrock refusal at 9'.

ATTACHMENT 7

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Sara R Hamidovic
VET Environmental Engineering LLC
2335 W. Fountain Drive
Bloomington, Indiana 47404

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JOB DESCRIPTION

25-183 College Square

JOB NUMBER

500-282251-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

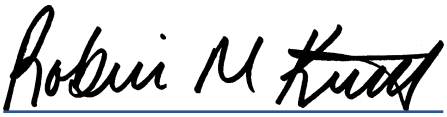
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Robin Kintz, Project Manager II
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Job Narrative
500-282251-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 2/24/2026 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -1.6°C and 2.4°C.

Receipt Exceptions
Received 5 bottles for samples 1-5 & 12, COC has 4.

GC/MS VOA
Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-1 (500-282251-6), MW-3 (500-282251-7), MW-3 (500-282251-7[MS]), MW-3 (500-282251-7[MSD]), MW-2 (500-282251-8), MW-4 (500-282251-9), MW-DUP-1 (500-282251-10) and Trip Blank (500-282251-11).

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (500-282251-8). Elevated reporting limits (RLs) are provided.

Method 8260D: The following analytes has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 2-Methylnaphthalene

Method 8260D: The continuing calibration verification (CCV) analyzed in 500-855771 was outside the method criteria for the following analyte(s): Bromomethane, Carbon tetrachloride, Chloroethane, trans-1,3-Dichloropropene and Trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following samples were diluted due to the abundance of non-target analytes: VB-2 (10'-12') (500-282251-2) and VB-3 (10'-12') (500-282251-3). Elevated reporting limits (RLs) are provided.

Method 8260D: The following analytes has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 2-Methylnaphthalene .

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-855772 was high for the following analyte(s): Bromomethane, Carbon tetrachloride, Chloroethane, trans-1,3-Dichloropropene and Trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-855652 was below the method criteria for the following analyte(s): 1,1,1-Trichloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) analyzed in 500-855652 was outside the method criteria low for the following analyte(s): 2-Methylnaphthalene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Job ID: 500-282251-1 (Continued) Eurofins Chicago

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-855652 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 500-855652 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) analyzed in 500-855652 was above the method criteria for the following analyte(s): 2-Butanone (MEK), Chloromethane, 2-Hexanone and methyl isobutyl ketone. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: MW-DUP-1 (500-282251-10). The reporting limits (RLs) have been adjusted proportionately.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: MW-3 (500-282251-7), MW-3 (500-282251-7[MS]) and MW-3 (500-282251-7[MSD]). Elevated reporting limits (RLs) are provided.

Method 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-855477 and analytical batch 500-855595 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D: The following sample was diluted due to the abundance of non-target analytes: VB-4 (10'-12') (500-282251-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-282251-1	VB-1 (10'-12')	Solid	02/23/26 14:00	02/24/26 09:20	Indiana
500-282251-2	VB-2 (10'-12')	Solid	02/23/26 14:05	02/24/26 09:20	Indiana
500-282251-3	VB-3 (10'-12')	Solid	02/23/26 14:10	02/24/26 09:20	Indiana
500-282251-4	VB-4 (10'-12')	Solid	02/23/26 14:15	02/24/26 09:20	Indiana
500-282251-5	VB-5 (6'-8')	Solid	02/23/26 14:20	02/24/26 09:20	Indiana
500-282251-6	MW-1	Water	02/23/26 15:15	02/24/26 09:20	Indiana
500-282251-7	MW-3	Water	02/23/26 15:40	02/24/26 09:20	Indiana
500-282251-8	MW-2	Water	02/23/26 16:20	02/24/26 09:20	Indiana
500-282251-9	MW-4	Water	02/23/26 16:35	02/24/26 09:20	Indiana
500-282251-10	MW-DUP-1	Water	02/23/26 00:00	02/24/26 09:20	Indiana
500-282251-11	Trip Blank	Water	02/23/26 00:00	02/24/26 09:20	Indiana
500-282251-12	VB-DUP-1	Solid	02/23/26 00:00	02/24/26 09:20	Indiana

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-1 (10'-12')
Date Collected: 02/23/26 14:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-1
Matrix: Solid
Percent Solids: 56.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.11		0.031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Benzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Bromoform	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Bromomethane	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
2-Butanone (MEK)	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Carbon disulfide	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Carbon tetrachloride	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Chlorobenzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Chlorodibromomethane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Chloroethane	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Chloroform	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Chloromethane	<0.0078	*+	0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
cis-1,2-Dichloroethene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
cis-1,3-Dichloropropene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Cyclohexane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Dichlorobromomethane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,1-Dichloroethane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,2-Dichloroethane	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,1-Dichloroethene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,2-Dichloropropane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,4-Dioxane	<0.16		0.16		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Ethylbenzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Ethylene Dibromide	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
2-Hexanone	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Isopropylbenzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Methyl acetate	<0.039		0.039		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Methylcyclohexane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Methylene Chloride	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
methyl isobutyl ketone	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
2-Methylnaphthalene	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Methyl tert-butyl ether	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Naphthalene	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Styrene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Tetrachloroethene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Toluene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
trans-1,2-Dichloroethene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
trans-1,3-Dichloropropene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,1,1-Trichloroethane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,1,2-Trichloroethane	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Trichloroethene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Trichlorofluoromethane	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,2,4-Trimethylbenzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
1,3,5-Trimethylbenzene	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Vinyl acetate	<0.0078		0.0078		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Vinyl chloride	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1
Xylenes, Total	<0.0062		0.0062		mg/Kg	☼	02/24/26 17:26	03/02/26 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*02/24/26 17:26*	*03/02/26 19:41*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*02/24/26 17:26*	*03/02/26 19:41*	*1*

Client Sample ID: VB-1 (10'-12')

Date Collected: 02/23/26 14:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-1

Matrix: Solid
Percent Solids: 56.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*	*02/24/26 17:26*	*03/02/26 19:41*	*1*
Toluene-d8 (Surr)	*104*		*75 - 124*	*02/24/26 17:26*	*03/02/26 19:41*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Acenaphthylene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Anthracene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Benzo[a]anthracene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Benzo[a]pyrene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Benzo[b]fluoranthene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Benzo[g,h,i]perylene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Benzo[k]fluoranthene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Chrysene	**0.077**		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Dibenz(a,h)anthracene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Fluoranthene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Fluorene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Indeno[1,2,3-cd]pyrene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
1-Methylnaphthalene	<0.12		0.12		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
2-Methylnaphthalene	<0.12		0.12		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Naphthalene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Phenanthrene	<0.057		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1
Pyrene	**0.058**		0.057		mg/Kg	☼	02/26/26 08:31	02/27/26 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*43 - 145*	*02/26/26 08:31*	*02/27/26 01:03*	*1*
Nitrobenzene-d5 (Surr)	*44*		*37 - 147*	*02/26/26 08:31*	*02/27/26 01:03*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*02/26/26 08:31*	*02/27/26 01:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**35**		0.89		mg/Kg	☼	02/25/26 08:39	02/28/26 08:40	1
Arsenic	**13**		1.8		mg/Kg	☼	02/25/26 08:39	02/28/26 08:40	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-2 (10'-12')

Date Collected: 02/23/26 14:05
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-2

Matrix: Solid
Percent Solids: 80.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.1		5.1		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Benzene	<0.13		0.13		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Bromoform	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Bromomethane	<1.5		1.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
2-Butanone (MEK)	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Carbon disulfide	<1.0		1.0		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Carbon tetrachloride	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Chlorobenzene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Chlorodibromomethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Chloroethane	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Chloroform	<1.0		1.0		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Chloromethane	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
cis-1,2-Dichloroethene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
cis-1,3-Dichloropropene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Cyclohexane	**8.6**		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Dichlorobromomethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,1-Dichloroethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,2-Dichloroethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,1-Dichloroethene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,2-Dichloropropane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,4-Dioxane	<51		51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Ethylbenzene	**0.53**		0.13		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Ethylene Dibromide	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
2-Hexanone	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Isopropylbenzene	**0.77**		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Methyl acetate	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Methylcyclohexane	**22**		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Methylene Chloride	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
methyl isobutyl ketone	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
2-Methylnaphthalene	<2.5		2.5		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Methyl tert-butyl ether	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Naphthalene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Styrene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Tetrachloroethene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Toluene	<0.13		0.13		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
trans-1,2-Dichloroethene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
trans-1,3-Dichloropropene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,1,1-Trichloroethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,1,2-Trichloroethane	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Trichloroethene	<0.25		0.25		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Trichlorofluoromethane	<0.51	*+	0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,2,4-Trimethylbenzene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
1,3,5-Trimethylbenzene	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Vinyl acetate	<1.0		1.0		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Vinyl chloride	<0.51		0.51		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500
Xylenes, Total	<0.25		0.25		mg/Kg	☼	02/23/26 14:05	03/03/26 14:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*02/23/26 14:05*	*03/03/26 14:13*	*500*
Dibromofluoromethane	*105*		*75 - 120*	*02/23/26 14:05*	*03/03/26 14:13*	*500*

Client Sample ID: VB-2 (10'-12')

Date Collected: 02/23/26 14:05
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-2

Matrix: Solid
Percent Solids: 80.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*	*02/23/26 14:05*	*03/03/26 14:13*	*500*
Toluene-d8 (Surr)	*100*		*75 - 120*	*02/23/26 14:05*	*03/03/26 14:13*	*500*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Acenaphthylene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Anthracene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Benzo[a]anthracene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Benzo[a]pyrene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Benzo[b]fluoranthene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Benzo[g,h,i]perylene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Benzo[k]fluoranthene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Chrysene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Dibenz(a,h)anthracene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Fluoranthene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Fluorene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
1-Methylnaphthalene	**0.44**		0.083		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
2-Methylnaphthalene	**0.98**		0.083		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Naphthalene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Phenanthrene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1
Pyrene	<0.041		0.041		mg/Kg	☼	02/26/26 08:31	02/27/26 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*43 - 145*	*02/26/26 08:31*	*02/27/26 01:28*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*02/26/26 08:31*	*02/27/26 01:28*	*1*
Terphenyl-d14 (Surr)	*99*		*42 - 157*	*02/26/26 08:31*	*02/27/26 01:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**24**		0.58		mg/Kg	☼	02/25/26 08:39	02/28/26 08:45	1
Arsenic	**7.2**		1.2		mg/Kg	☼	02/25/26 08:39	02/28/26 08:45	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-3 (10'-12')
Date Collected: 02/23/26 14:10
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-3
Matrix: Solid
Percent Solids: 72.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.76		0.76		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Benzene	<0.019		0.019		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Bromoform	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Bromomethane	<0.23		0.23		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
2-Butanone (MEK)	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Carbon disulfide	<0.15		0.15		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Carbon tetrachloride	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Chlorobenzene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Chlorodibromomethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Chloroethane	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Chloroform	<0.15		0.15		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Chloromethane	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
cis-1,2-Dichloroethene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
cis-1,3-Dichloropropene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Cyclohexane	**1.8**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Dichlorobromomethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,1-Dichloroethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,2-Dichloroethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,1-Dichloroethene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,2-Dichloropropane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,4-Dioxane	<7.6	*3	7.6		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Ethylbenzene	**0.49**		0.019		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Ethylene Dibromide	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
2-Hexanone	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Isopropylbenzene	**0.29**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Methyl acetate	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Methylcyclohexane	**3.9**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Methylene Chloride	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
methyl isobutyl ketone	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
2-Methylnaphthalene	<0.38		0.38		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Methyl tert-butyl ether	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Naphthalene	**0.084**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Styrene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Tetrachloroethene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Toluene	<0.019		0.019		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
trans-1,2-Dichloroethene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
trans-1,3-Dichloropropene	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,1,1-Trichloroethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,1,2-Trichloroethane	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Trichloroethene	<0.038		0.038		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Trichlorofluoromethane	<0.076	*+	0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,2,4-Trimethylbenzene	**0.43**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
1,3,5-Trimethylbenzene	**0.26**		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Vinyl acetate	<0.15		0.15		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Vinyl chloride	<0.076		0.076		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50
Xylenes, Total	**0.11**		0.038		mg/Kg	☼	02/23/26 14:10	03/03/26 14:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*02/23/26 14:10*	*03/03/26 14:59*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*02/23/26 14:10*	*03/03/26 14:59*	*50*

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-3 (10'-12')

Date Collected: 02/23/26 14:10
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-3

Matrix: Solid
Percent Solids: 72.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*02/23/26 14:10*	*03/03/26 14:59*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*02/23/26 14:10*	*03/03/26 14:59*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Acenaphthylene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Anthracene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Benzo[a]anthracene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Benzo[a]pyrene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Benzo[b]fluoranthene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Benzo[g,h,i]perylene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Benzo[k]fluoranthene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Chrysene	**0.051**		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Dibenz(a,h)anthracene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Fluoranthene	**0.044**		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Fluorene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Indeno[1,2,3-cd]pyrene	<0.044		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
1-Methylnaphthalene	**1.1**		0.088		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
2-Methylnaphthalene	**2.2**		0.088		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Naphthalene	**0.11**		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Phenanthrene	**0.080**		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1
Pyrene	**0.049**		0.044		mg/Kg	☼	02/26/26 08:31	02/27/26 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*83*		*43 - 145*	*02/26/26 08:31*	*02/27/26 01:52*	*1*
Nitrobenzene-d5 (Surr)	*74*		*37 - 147*	*02/26/26 08:31*	*02/27/26 01:52*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*02/26/26 08:31*	*02/27/26 01:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		0.62		mg/Kg	☼	02/25/26 08:39	02/28/26 08:49	1
Arsenic	**9.9**		1.2		mg/Kg	☼	02/25/26 08:39	02/28/26 08:49	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-4 (10'-12')
Date Collected: 02/23/26 14:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-4
Matrix: Solid
Percent Solids: 62.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.047**		0.025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Benzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Bromoform	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Bromomethane	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
2-Butanone (MEK)	**0.0094**		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Carbon disulfide	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Carbon tetrachloride	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Chlorobenzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Chlorodibromomethane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Chloroethane	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Chloroform	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Chloromethane	<0.0061	*+	0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
cis-1,2-Dichloroethene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
cis-1,3-Dichloropropene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Cyclohexane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Dichlorobromomethane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,1-Dichloroethane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,2-Dichloroethane	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,1-Dichloroethene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,2-Dichloropropane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,4-Dioxane	<0.12		0.12		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Ethylbenzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Ethylene Dibromide	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
2-Hexanone	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Isopropylbenzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Methyl acetate	<0.031		0.031		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Methylcyclohexane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Methylene Chloride	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
methyl isobutyl ketone	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
2-Methylnaphthalene	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Methyl tert-butyl ether	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Naphthalene	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Styrene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Tetrachloroethene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Toluene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
trans-1,2-Dichloroethene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
trans-1,3-Dichloropropene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,1,1-Trichloroethane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,1,2-Trichloroethane	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Trichloroethene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Trichlorofluoromethane	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,2,4-Trimethylbenzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
1,3,5-Trimethylbenzene	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Vinyl acetate	<0.0061		0.0061		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Vinyl chloride	<0.0025		0.0025		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1
Xylenes, Total	<0.0049		0.0049		mg/Kg	☼	02/24/26 17:26	03/02/26 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*	*02/24/26 17:26*	*03/02/26 20:05*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*02/24/26 17:26*	*03/02/26 20:05*	*1*

Client Sample ID: VB-4 (10'-12')

Date Collected: 02/23/26 14:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-4

Matrix: Solid
Percent Solids: 62.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*02/24/26 17:26*	*03/02/26 20:05*	*1*
Toluene-d8 (Surr)	*101*		*75 - 124*	*02/24/26 17:26*	*03/02/26 20:05*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Acenaphthylene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Benzo[a]anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Benzo[a]pyrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Benzo[b]fluoranthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Benzo[g,h,i]perylene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Benzo[k]fluoranthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Chrysene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Dibenz(a,h)anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Fluoranthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Fluorene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Indeno[1,2,3-cd]pyrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
1-Methylnaphthalene	<0.11		0.11		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
2-Methylnaphthalene	<0.11		0.11		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Naphthalene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Phenanthrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1
Pyrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*88*		*43 - 145*	*02/26/26 08:31*	*02/27/26 02:17*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*02/26/26 08:31*	*02/27/26 02:17*	*1*
Terphenyl-d14 (Surr)	*104*		*42 - 157*	*02/26/26 08:31*	*02/27/26 02:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<1.5		1.5		mg/Kg	☼	02/25/26 08:39	03/02/26 20:08	2
Arsenic	**6.9**		1.5		mg/Kg	☼	02/25/26 08:39	02/28/26 08:53	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-5 (6'-8')
Date Collected: 02/23/26 14:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-5
Matrix: Solid
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.020**		0.015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Benzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Bromoform	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Bromomethane	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
2-Butanone (MEK)	**0.0044**		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Carbon disulfide	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Carbon tetrachloride	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Chlorobenzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Chlorodibromomethane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Chloroethane	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Chloroform	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Chloromethane	<0.0039	*+	0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
cis-1,2-Dichloroethene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
cis-1,3-Dichloropropene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Cyclohexane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Dichlorobromomethane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,1-Dichloroethane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,2-Dichloroethane	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,1-Dichloroethene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,2-Dichloropropane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,4-Dioxane	<0.077		0.077		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Ethylbenzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Ethylene Dibromide	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
2-Hexanone	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Isopropylbenzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Methyl acetate	<0.019		0.019		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Methylcyclohexane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Methylene Chloride	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
methyl isobutyl ketone	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
2-Methylnaphthalene	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Methyl tert-butyl ether	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Naphthalene	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Styrene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Tetrachloroethene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Toluene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
trans-1,2-Dichloroethene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
trans-1,3-Dichloropropene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,1,1-Trichloroethane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,1,2-Trichloroethane	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Trichloroethene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Trichlorofluoromethane	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,2,4-Trimethylbenzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
1,3,5-Trimethylbenzene	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Vinyl acetate	<0.0039		0.0039		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Vinyl chloride	<0.0015		0.0015		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1
Xylenes, Total	<0.0031		0.0031		mg/Kg	☼	02/24/26 17:26	03/02/26 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*75 - 131*	*02/24/26 17:26*	*03/02/26 20:29*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*02/24/26 17:26*	*03/02/26 20:29*	*1*

Client Sample ID: VB-5 (6'-8')
Date Collected: 02/23/26 14:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-5
Matrix: Solid
Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*02/24/26 17:26*	*03/02/26 20:29*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*02/24/26 17:26*	*03/02/26 20:29*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Acenaphthylene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Anthracene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Benzo[a]anthracene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Benzo[a]pyrene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Benzo[b]fluoranthene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Benzo[g,h,i]perylene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Benzo[k]fluoranthene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Chrysene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Dibenz(a,h)anthracene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Fluoranthene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Fluorene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Indeno[1,2,3-cd]pyrene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
1-Methylnaphthalene	<0.079		0.079		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
2-Methylnaphthalene	<0.079		0.079		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Naphthalene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Phenanthrene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1
Pyrene	<0.039		0.039		mg/Kg	☼	02/26/26 08:31	02/27/26 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*43 - 145*	*02/26/26 08:31*	*02/27/26 02:42*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*02/26/26 08:31*	*02/27/26 02:42*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*02/26/26 08:31*	*02/27/26 02:42*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		0.51		mg/Kg	☼	02/25/26 08:39	02/28/26 08:58	1
Arsenic	**20**		1.0		mg/Kg	☼	02/25/26 08:39	02/28/26 08:58	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-1
Date Collected: 02/23/26 15:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 16:07	1
Benzene	<0.50		0.50		ug/L			03/03/26 16:07	1
Bromoform	<1.0		1.0		ug/L			03/03/26 16:07	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 16:07	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 16:07	1
Carbon disulfide	<2.0		2.0		ug/L			03/03/26 16:07	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 16:07	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 16:07	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 16:07	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 16:07	1
Chloroform	<2.0		2.0		ug/L			03/03/26 16:07	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 16:07	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:07	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 16:07	1
Cyclohexane	<1.0		1.0		ug/L			03/03/26 16:07	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 16:07	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 16:07	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 16:07	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:07	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 16:07	1
1,4-Dioxane	<100		100		ug/L			03/03/26 16:07	1
Ethylbenzene	<0.50		0.50		ug/L			03/03/26 16:07	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 16:07	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 16:07	1
Isopropylbenzene	<1.0		1.0		ug/L			03/03/26 16:07	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 16:07	1
Methylcyclohexane	**4.5**		1.0		ug/L			03/03/26 16:07	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 16:07	1
methyl isobutyl ketone	<5.0		5.0		ug/L			03/03/26 16:07	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 16:07	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 16:07	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 16:07	1
Styrene	<1.0		1.0		ug/L			03/03/26 16:07	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 16:07	1
Toluene	**0.98**		0.50		ug/L			03/03/26 16:07	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:07	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 16:07	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 16:07	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 16:07	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 16:07	1
Trichlorofluoromethane	<1.0	*+	1.0		ug/L			03/03/26 16:07	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 16:07	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 16:07	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 16:07	1
Vinyl chloride	<1.0		1.0		ug/L			03/03/26 16:07	1
Xylenes, Total	<1.0		1.0		ug/L			03/03/26 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*03/03/26 16:07*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*03/03/26 16:07*	*1*

Client Sample ID: MW-1
Date Collected: 02/23/26 15:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*03/03/26 16:07*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*03/03/26 16:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Acenaphthylene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Anthracene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Benzo[a]anthracene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Benzo[a]pyrene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Benzo[b]fluoranthene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Benzo[g,h,i]perylene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Benzo[k]fluoranthene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Chrysene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Dibenz(a,h)anthracene	<0.27		0.27		ug/L		02/27/26 15:17	03/02/26 15:28	1
Fluoranthene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Indeno[1,2,3-cd]pyrene	<0.18		0.18		ug/L		02/27/26 15:17	03/02/26 15:28	1
Naphthalene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Phenanthrene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
Pyrene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
2-Methylnaphthalene	<1.8		1.8		ug/L		02/27/26 15:17	03/02/26 15:28	1
Fluorene	<0.90		0.90		ug/L		02/27/26 15:17	03/02/26 15:28	1
1-Methylnaphthalene	<1.8		1.8		ug/L		02/27/26 15:17	03/02/26 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*02/27/26 15:17*	*03/02/26 15:28*	*1*
2-Fluorobiphenyl	*83*		*34 - 110*	*02/27/26 15:17*	*03/02/26 15:28*	*1*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*02/27/26 15:17*	*03/02/26 15:28*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	**6.7**		5.0		ug/L		02/25/26 13:51	02/28/26 07:04	1
Arsenic, Dissolved	<10		10		ug/L		02/25/26 13:51	02/28/26 07:04	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-3
Date Collected: 02/23/26 15:40
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 16:29	1
Benzene	**41**		0.50		ug/L			03/03/26 16:29	1
Bromoform	<1.0		1.0		ug/L			03/03/26 16:29	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 16:29	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 16:29	1
Carbon disulfide	<2.0	F1	2.0		ug/L			03/03/26 16:29	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 16:29	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 16:29	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 16:29	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 16:29	1
Chloroform	<2.0		2.0		ug/L			03/03/26 16:29	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 16:29	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:29	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 16:29	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 16:29	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 16:29	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 16:29	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:29	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 16:29	1
1,4-Dioxane	<100		100		ug/L			03/03/26 16:29	1
Ethylbenzene	**20**	**F1**	0.50		ug/L			03/03/26 16:29	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 16:29	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 16:29	1
Isopropylbenzene	**32**	**F1**	1.0		ug/L			03/03/26 16:29	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 16:29	1
Methylcyclohexane	**130**	**F1**	1.0		ug/L			03/03/26 16:29	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 16:29	1
methyl isobutyl ketone	<5.0	F1	5.0		ug/L			03/03/26 16:29	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 16:29	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 16:29	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 16:29	1
Styrene	<1.0		1.0		ug/L			03/03/26 16:29	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 16:29	1
Toluene	**3.0**		0.50		ug/L			03/03/26 16:29	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 16:29	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 16:29	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 16:29	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 16:29	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 16:29	1
Trichlorofluoromethane	<1.0	*+ F1	1.0		ug/L			03/03/26 16:29	1
1,2,4-Trimethylbenzene	**3.3**		1.0		ug/L			03/03/26 16:29	1
1,3,5-Trimethylbenzene	**2.5**		1.0		ug/L			03/03/26 16:29	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 16:29	1
Vinyl chloride	<1.0	F1	1.0		ug/L			03/03/26 16:29	1
Xylenes, Total	**18**		1.0		ug/L			03/03/26 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*03/03/26 16:29*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/03/26 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*03/03/26 16:29*	*1*

Client Sample ID: MW-3
Date Collected: 02/23/26 15:40
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 120*		*03/03/26 16:29*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**160**		20		ug/L			03/03/26 16:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*03/03/26 16:52*	*20*
Dibromofluoromethane	*103*		*75 - 120*		*03/03/26 16:52*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*03/03/26 16:52*	*20*
Toluene-d8 (Surr)	*100*		*75 - 120*		*03/03/26 16:52*	*20*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Acenaphthylene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Anthracene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Benzo[a]anthracene	<1.1	F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Benzo[a]pyrene	<1.1	F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Benzo[b]fluoranthene	<1.1	F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Benzo[g,h,i]perylene	<5.3	F1 F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Benzo[k]fluoranthene	<1.1	F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Chrysene	<1.1	F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Dibenz(a,h)anthracene	<1.6	F1 F2	1.6		ug/L		02/27/26 15:17	03/02/26 19:27	5
Fluoranthene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Indeno[1,2,3-cd]pyrene	<1.1	F1 F2	1.1		ug/L		02/27/26 15:17	03/02/26 19:27	5
Naphthalene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Phenanthrene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
Pyrene	<5.3	F1 F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
2-Methylnaphthalene	**12**	**F2**	11		ug/L		02/27/26 15:17	03/02/26 19:27	5
Fluorene	<5.3	F2	5.3		ug/L		02/27/26 15:17	03/02/26 19:27	5
1-Methylnaphthalene	<11	F2	11		ug/L		02/27/26 15:17	03/02/26 19:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*	*02/27/26 15:17*	*03/02/26 19:27*	*5*
2-Fluorobiphenyl	*77*		*34 - 110*	*02/27/26 15:17*	*03/02/26 19:27*	*5*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*02/27/26 15:17*	*03/02/26 19:27*	*5*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<5.0		5.0		ug/L		02/25/26 13:51	02/28/26 07:09	1
Arsenic, Dissolved	<10		10		ug/L		02/25/26 13:51	02/28/26 07:09	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-2

Date Collected: 02/23/26 16:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/L			03/03/26 17:15	5
Benzene	**180**		2.5		ug/L			03/03/26 17:15	5
Bromoform	<5.0		5.0		ug/L			03/03/26 17:15	5
Bromomethane	<15		15		ug/L			03/03/26 17:15	5
2-Butanone (MEK)	<25		25		ug/L			03/03/26 17:15	5
Carbon disulfide	<10		10		ug/L			03/03/26 17:15	5
Carbon tetrachloride	<5.0		5.0		ug/L			03/03/26 17:15	5
Chlorobenzene	<5.0		5.0		ug/L			03/03/26 17:15	5
Chlorodibromomethane	<5.0		5.0		ug/L			03/03/26 17:15	5
Chloroethane	<25		25		ug/L			03/03/26 17:15	5
Chloroform	<10		10		ug/L			03/03/26 17:15	5
Chloromethane	<25		25		ug/L			03/03/26 17:15	5
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			03/03/26 17:15	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			03/03/26 17:15	5
Cyclohexane	**400**		5.0		ug/L			03/03/26 17:15	5
Dichlorobromomethane	<5.0		5.0		ug/L			03/03/26 17:15	5
1,1-Dichloroethane	<5.0		5.0		ug/L			03/03/26 17:15	5
1,2-Dichloroethane	<5.0		5.0		ug/L			03/03/26 17:15	5
1,1-Dichloroethene	<5.0		5.0		ug/L			03/03/26 17:15	5
1,2-Dichloropropane	<5.0		5.0		ug/L			03/03/26 17:15	5
1,4-Dioxane	<500		500		ug/L			03/03/26 17:15	5
Ethylbenzene	**11**		2.5		ug/L			03/03/26 17:15	5
Ethylene Dibromide	<5.0		5.0		ug/L			03/03/26 17:15	5
2-Hexanone	<25		25		ug/L			03/03/26 17:15	5
Isopropylbenzene	**31**		5.0		ug/L			03/03/26 17:15	5
Methyl acetate	<25		25		ug/L			03/03/26 17:15	5
Methylcyclohexane	**250**		5.0		ug/L			03/03/26 17:15	5
Methylene Chloride	<25		25		ug/L			03/03/26 17:15	5
methyl isobutyl ketone	<25		25		ug/L			03/03/26 17:15	5
2-Methylnaphthalene	<25		25		ug/L			03/03/26 17:15	5
Methyl tert-butyl ether	<5.0		5.0		ug/L			03/03/26 17:15	5
Naphthalene	<5.0		5.0		ug/L			03/03/26 17:15	5
Styrene	<5.0		5.0		ug/L			03/03/26 17:15	5
Tetrachloroethene	<5.0		5.0		ug/L			03/03/26 17:15	5
Toluene	**8.2**		2.5		ug/L			03/03/26 17:15	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			03/03/26 17:15	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			03/03/26 17:15	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			03/03/26 17:15	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			03/03/26 17:15	5
Trichloroethene	<2.5		2.5		ug/L			03/03/26 17:15	5
Trichlorofluoromethane	<5.0	*+	5.0		ug/L			03/03/26 17:15	5
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			03/03/26 17:15	5
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			03/03/26 17:15	5
Vinyl acetate	<10		10		ug/L			03/03/26 17:15	5
Vinyl chloride	<5.0		5.0		ug/L			03/03/26 17:15	5
Xylenes, Total	**38**		5.0		ug/L			03/03/26 17:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*03/03/26 17:15*	*5*
Dibromofluoromethane	*101*		*75 - 120*		*03/03/26 17:15*	*5*

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-2

Date Collected: 02/23/26 16:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*03/03/26 17:15*	*5*
Toluene-d8 (Surr)	*99*		*75 - 120*		*03/03/26 17:15*	*5*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Acenaphthylene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Anthracene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Benzo[a]anthracene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Benzo[a]pyrene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Benzo[b]fluoranthene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Benzo[g,h,i]perylene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Benzo[k]fluoranthene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Chrysene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Dibenz(a,h)anthracene	<0.26		0.26		ug/L		02/27/26 15:17	03/02/26 15:50	1
Fluoranthene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Indeno[1,2,3-cd]pyrene	<0.17		0.17		ug/L		02/27/26 15:17	03/02/26 15:50	1
Naphthalene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Phenanthrene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
Pyrene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
2-Methylnaphthalene	**23**		1.7		ug/L		02/27/26 15:17	03/02/26 15:50	1
Fluorene	<0.85		0.85		ug/L		02/27/26 15:17	03/02/26 15:50	1
1-Methylnaphthalene	**14**		1.7		ug/L		02/27/26 15:17	03/02/26 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*02/27/26 15:17*	*03/02/26 15:50*	*1*
2-Fluorobiphenyl	*78*		*34 - 110*	*02/27/26 15:17*	*03/02/26 15:50*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*02/27/26 15:17*	*03/02/26 15:50*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<5.0		5.0		ug/L		02/25/26 13:51	02/28/26 07:40	1
Arsenic, Dissolved	<10		10		ug/L		02/25/26 13:51	02/28/26 07:40	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-4
Date Collected: 02/23/26 16:35
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 18:00	1
Benzene	<0.50		0.50		ug/L			03/03/26 18:00	1
Bromoform	<1.0		1.0		ug/L			03/03/26 18:00	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 18:00	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 18:00	1
Carbon disulfide	<2.0		2.0		ug/L			03/03/26 18:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 18:00	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 18:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 18:00	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 18:00	1
Chloroform	<2.0		2.0		ug/L			03/03/26 18:00	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 18:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:00	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 18:00	1
Cyclohexane	<1.0		1.0		ug/L			03/03/26 18:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 18:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 18:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 18:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 18:00	1
1,4-Dioxane	<100		100		ug/L			03/03/26 18:00	1
Ethylbenzene	<0.50		0.50		ug/L			03/03/26 18:00	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 18:00	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 18:00	1
Isopropylbenzene	<1.0		1.0		ug/L			03/03/26 18:00	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 18:00	1
Methylcyclohexane	<1.0		1.0		ug/L			03/03/26 18:00	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 18:00	1
methyl isobutyl ketone	<5.0		5.0		ug/L			03/03/26 18:00	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 18:00	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 18:00	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 18:00	1
Styrene	<1.0		1.0		ug/L			03/03/26 18:00	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 18:00	1
Toluene	**0.82**		0.50		ug/L			03/03/26 18:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:00	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 18:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 18:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 18:00	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 18:00	1
Trichlorofluoromethane	<1.0	*+	1.0		ug/L			03/03/26 18:00	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 18:00	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 18:00	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 18:00	1
Vinyl chloride	<1.0		1.0		ug/L			03/03/26 18:00	1
Xylenes, Total	<1.0		1.0		ug/L			03/03/26 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*03/03/26 18:00*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*03/03/26 18:00*	*1*

Client Sample ID: MW-4

Date Collected: 02/23/26 16:35
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-9

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*03/03/26 18:00*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*03/03/26 18:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Acenaphthylene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Anthracene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Benzo[a]anthracene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Benzo[a]pyrene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Benzo[g,h,i]perylene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Chrysene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Dibenz(a,h)anthracene	<0.28		0.28		ug/L		02/27/26 15:17	03/02/26 16:11	1
Fluoranthene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		02/27/26 15:17	03/02/26 16:11	1
Naphthalene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Phenanthrene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
Pyrene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
2-Methylnaphthalene	<1.9		1.9		ug/L		02/27/26 15:17	03/02/26 16:11	1
Fluorene	<0.94		0.94		ug/L		02/27/26 15:17	03/02/26 16:11	1
1-Methylnaphthalene	<1.9		1.9		ug/L		02/27/26 15:17	03/02/26 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*02/27/26 15:17*	*03/02/26 16:11*	*1*
2-Fluorobiphenyl	*75*		*34 - 110*	*02/27/26 15:17*	*03/02/26 16:11*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*02/27/26 15:17*	*03/02/26 16:11*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<5.0		5.0		ug/L		02/25/26 13:51	02/28/26 07:45	1
Arsenic, Dissolved	<10		10		ug/L		02/25/26 13:51	02/28/26 07:45	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-DUP-1

Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 18:44	1
Benzene	<0.50		0.50		ug/L			03/03/26 18:44	1
Bromoform	<1.0		1.0		ug/L			03/03/26 18:44	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 18:44	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 18:44	1
Carbon disulfide	<2.0		2.0		ug/L			03/03/26 18:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 18:44	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 18:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 18:44	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 18:44	1
Chloroform	<2.0		2.0		ug/L			03/03/26 18:44	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 18:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:44	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 18:44	1
Cyclohexane	<1.0		1.0		ug/L			03/03/26 18:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 18:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 18:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 18:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 18:44	1
1,4-Dioxane	<100		100		ug/L			03/03/26 18:44	1
Ethylbenzene	<0.50		0.50		ug/L			03/03/26 18:44	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 18:44	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 18:44	1
Isopropylbenzene	<1.0		1.0		ug/L			03/03/26 18:44	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 18:44	1
Methylcyclohexane	**5.2**		1.0		ug/L			03/03/26 18:44	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 18:44	1
methyl isobutyl ketone	<5.0		5.0		ug/L			03/03/26 18:44	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 18:44	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 18:44	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 18:44	1
Styrene	<1.0		1.0		ug/L			03/03/26 18:44	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 18:44	1
Toluene	**0.92**		0.50		ug/L			03/03/26 18:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 18:44	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 18:44	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 18:44	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 18:44	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 18:44	1
Trichlorofluoromethane	<1.0	*+	1.0		ug/L			03/03/26 18:44	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 18:44	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 18:44	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 18:44	1
Vinyl chloride	<1.0		1.0		ug/L			03/03/26 18:44	1
Xylenes, Total	<1.0		1.0		ug/L			03/03/26 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*03/03/26 18:44*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/03/26 18:44*	*1*

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-DUP-1

Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/03/26 18:44*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*03/03/26 18:44*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Acenaphthylene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Anthracene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Benzo[a]anthracene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Benzo[a]pyrene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Benzo[b]fluoranthene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Benzo[g,h,i]perylene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Benzo[k]fluoranthene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Chrysene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Dibenz(a,h)anthracene	<0.60		0.60		ug/L		02/24/26 15:12	02/25/26 17:08	1
Fluoranthene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Indeno[1,2,3-cd]pyrene	<0.40		0.40		ug/L		02/24/26 15:12	02/25/26 17:08	1
Naphthalene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Phenanthrene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Pyrene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
2-Methylnaphthalene	<4.0		4.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
Fluorene	<2.0		2.0		ug/L		02/24/26 15:12	02/25/26 17:08	1
1-Methylnaphthalene	<4.0		4.0		ug/L		02/24/26 15:12	02/25/26 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*02/24/26 15:12*	*02/25/26 17:08*	*1*
2-Fluorobiphenyl	*76*		*34 - 110*	*02/24/26 15:12*	*02/25/26 17:08*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*02/24/26 15:12*	*02/25/26 17:08*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	**23**		5.0		ug/L		02/25/26 13:51	02/28/26 07:50	1
Arsenic, Dissolved	**21**		10		ug/L		02/25/26 13:51	02/28/26 07:50	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: Trip Blank

Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-11

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 19:07	1
Benzene	<0.50		0.50		ug/L			03/03/26 19:07	1
Bromoform	<1.0		1.0		ug/L			03/03/26 19:07	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 19:07	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 19:07	1
Carbon disulfide	<2.0		2.0		ug/L			03/03/26 19:07	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 19:07	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 19:07	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 19:07	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 19:07	1
Chloroform	<2.0		2.0		ug/L			03/03/26 19:07	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 19:07	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 19:07	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 19:07	1
Cyclohexane	<1.0		1.0		ug/L			03/03/26 19:07	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 19:07	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 19:07	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 19:07	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 19:07	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 19:07	1
1,4-Dioxane	<100		100		ug/L			03/03/26 19:07	1
Ethylbenzene	<0.50		0.50		ug/L			03/03/26 19:07	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 19:07	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 19:07	1
Isopropylbenzene	<1.0		1.0		ug/L			03/03/26 19:07	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 19:07	1
Methylcyclohexane	<1.0		1.0		ug/L			03/03/26 19:07	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 19:07	1
methyl isobutyl ketone	<5.0		5.0		ug/L			03/03/26 19:07	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 19:07	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 19:07	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 19:07	1
Styrene	<1.0		1.0		ug/L			03/03/26 19:07	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 19:07	1
Toluene	<0.50		0.50		ug/L			03/03/26 19:07	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 19:07	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 19:07	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 19:07	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 19:07	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 19:07	1
Trichlorofluoromethane	<1.0	*+	1.0		ug/L			03/03/26 19:07	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 19:07	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 19:07	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 19:07	1
Vinyl chloride	<1.0		1.0		ug/L			03/03/26 19:07	1
Xylenes, Total	<1.0		1.0		ug/L			03/03/26 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*03/03/26 19:07*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*03/03/26 19:07*	*1*

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: Trip Blank
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		03/03/26 19:07	1
Toluene-d8 (Surr)	100		75 - 120		03/03/26 19:07	1

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-DUP-1
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-12
Matrix: Solid
Percent Solids: 61.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.1		1.1		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Benzene	<0.027		0.027		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Bromoform	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Bromomethane	<0.33		0.33		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
2-Butanone (MEK)	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Carbon disulfide	<0.22		0.22		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Carbon tetrachloride	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Chlorobenzene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Chlorodibromomethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Chloroethane	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Chloroform	<0.22		0.22		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Chloromethane	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
cis-1,2-Dichloroethene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
cis-1,3-Dichloropropene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Cyclohexane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Dichlorobromomethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,1-Dichloroethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,2-Dichloroethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,1-Dichloroethene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,2-Dichloropropane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,4-Dioxane	<11	*3	11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Ethylbenzene	<0.027		0.027		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Ethylene Dibromide	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
2-Hexanone	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Isopropylbenzene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Methyl acetate	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Methylcyclohexane	**0.36**		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Methylene Chloride	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
methyl isobutyl ketone	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
2-Methylnaphthalene	<0.55		0.55		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Methyl tert-butyl ether	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Naphthalene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Styrene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Tetrachloroethene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Toluene	<0.027		0.027		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
trans-1,2-Dichloroethene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
trans-1,3-Dichloropropene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,1,1-Trichloroethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,1,2-Trichloroethane	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Trichloroethene	<0.055		0.055		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Trichlorofluoromethane	<0.11	*+	0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,2,4-Trimethylbenzene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
1,3,5-Trimethylbenzene	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Vinyl acetate	<0.22		0.22		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Vinyl chloride	<0.11		0.11		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50
Xylenes, Total	<0.055		0.055		mg/Kg	☼	02/23/26 00:00	03/03/26 15:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*02/23/26 00:00*	*03/03/26 15:44*	*50*
Dibromofluoromethane	*100*		*75 - 120*	*02/23/26 00:00*	*03/03/26 15:44*	*50*

Client Sample ID: VB-DUP-1

Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-12

Matrix: Solid
Percent Solids: 61.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*02/23/26 00:00*	*03/03/26 15:44*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*02/23/26 00:00*	*03/03/26 15:44*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Acenaphthylene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Benzo[a]anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Benzo[a]pyrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Benzo[b]fluoranthene	**0.052**		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Benzo[g,h,i]perylene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Benzo[k]fluoranthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Chrysene	**0.087**		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Dibenz(a,h)anthracene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Fluoranthene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Fluorene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Indeno[1,2,3-cd]pyrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
1-Methylnaphthalene	<0.11		0.11		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
2-Methylnaphthalene	<0.11		0.11		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Naphthalene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Phenanthrene	<0.052		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1
Pyrene	**0.074**		0.052		mg/Kg	☼	02/26/26 08:31	02/27/26 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*43 - 145*	*02/26/26 08:31*	*02/27/26 03:06*	*1*
Nitrobenzene-d5 (Surr)	*43*		*37 - 147*	*02/26/26 08:31*	*02/27/26 03:06*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*02/26/26 08:31*	*02/27/26 03:06*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**30**		0.72		mg/Kg	☼	02/25/26 08:39	02/28/26 09:02	1
Arsenic	**12**		1.4		mg/Kg	☼	02/25/26 08:39	02/28/26 09:02	1

Definitions/Glossary

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 855239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	5035	
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	5035	
500-282251-12	VB-DUP-1	Total/NA	Solid	5035	

Prep Batch: 855621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	5035	
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	5035	
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	5035	

Analysis Batch: 855652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	8260D	855621
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	8260D	855621
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	8260D	855621
MB 500-855652/9	Method Blank	Total/NA	Solid	8260D	
LCS 500-855652/30	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-855652/31	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 855771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-6	MW-1	Total/NA	Water	8260D	
500-282251-7	MW-3	Total/NA	Water	8260D	
500-282251-7 - DL	MW-3	Total/NA	Water	8260D	
500-282251-8	MW-2	Total/NA	Water	8260D	
500-282251-9	MW-4	Total/NA	Water	8260D	
500-282251-10	MW-DUP-1	Total/NA	Water	8260D	
500-282251-11	Trip Blank	Total/NA	Water	8260D	
MB 500-855771/8	Method Blank	Total/NA	Water	8260D	
LCS 500-855771/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-855771/5	Lab Control Sample Dup	Total/NA	Water	8260D	
500-282251-7 MS	MW-3	Total/NA	Water	8260D	
500-282251-7 MSD	MW-3	Total/NA	Water	8260D	

Analysis Batch: 855772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	8260D	855239
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	8260D	855239
500-282251-12	VB-DUP-1	Total/NA	Solid	8260D	855239
MB 500-855772/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-855772/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-855772/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 854834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-10	MW-DUP-1	Total/NA	Water	3510C	
MB 500-854834/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-854834/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-854834/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 854927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-10	MW-DUP-1	Total/NA	Water	8270E	854834
MB 500-854834/1-A	Method Blank	Total/NA	Water	8270E	854834
LCS 500-854834/2-A	Lab Control Sample	Total/NA	Water	8270E	854834
LCSD 500-854834/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	854834

Prep Batch: 855134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	3546	
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	3546	
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	3546	
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	3546	
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	3546	
500-282251-12	VB-DUP-1	Total/NA	Solid	3546	
MB 500-855134/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-855134/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 855224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	8270E	855134
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	8270E	855134
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	8270E	855134
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	8270E	855134
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	8270E	855134
500-282251-12	VB-DUP-1	Total/NA	Solid	8270E	855134
MB 500-855134/1-A	Method Blank	Total/NA	Solid	8270E	855134
LCS 500-855134/2-A	Lab Control Sample	Total/NA	Solid	8270E	855134

Prep Batch: 855477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-6	MW-1	Total/NA	Water	3510C	
500-282251-7	MW-3	Total/NA	Water	3510C	
500-282251-8	MW-2	Total/NA	Water	3510C	
500-282251-9	MW-4	Total/NA	Water	3510C	
MB 500-855477/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-855477/2-A	Lab Control Sample	Total/NA	Water	3510C	
500-282251-7 MS	MW-3	Total/NA	Water	3510C	
500-282251-7 MSD	MW-3	Total/NA	Water	3510C	

Analysis Batch: 855595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-6	MW-1	Total/NA	Water	8270E	855477
500-282251-7	MW-3	Total/NA	Water	8270E	855477
500-282251-8	MW-2	Total/NA	Water	8270E	855477
500-282251-9	MW-4	Total/NA	Water	8270E	855477
MB 500-855477/1-A	Method Blank	Total/NA	Water	8270E	855477
LCS 500-855477/2-A	Lab Control Sample	Total/NA	Water	8270E	855477
500-282251-7 MS	MW-3	Total/NA	Water	8270E	855477
500-282251-7 MSD	MW-3	Total/NA	Water	8270E	855477

Metals

Prep Batch: 854946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	3050B	
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	3050B	
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	3050B	
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	3050B	
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	3050B	
500-282251-12	VB-DUP-1	Total/NA	Solid	3050B	
MB 500-854946/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-854946/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 855043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-6	MW-1	Dissolved	Water	3010A	
500-282251-7	MW-3	Dissolved	Water	3010A	
500-282251-8	MW-2	Dissolved	Water	3010A	
500-282251-9	MW-4	Dissolved	Water	3010A	
500-282251-10	MW-DUP-1	Dissolved	Water	3010A	
MB 500-855043/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-855043/2-A	Lab Control Sample	Total/NA	Water	3010A	
500-282251-7 MS	MW-3	Dissolved	Water	3010A	
500-282251-7 MSD	MW-3	Dissolved	Water	3010A	
500-282251-7 DU	MW-3	Dissolved	Water	3010A	

Analysis Batch: 855506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	6010D	854946
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	6010D	854946
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	6010D	854946
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	6010D	854946
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	6010D	854946
500-282251-6	MW-1	Dissolved	Water	6010D	855043
500-282251-7	MW-3	Dissolved	Water	6010D	855043
500-282251-8	MW-2	Dissolved	Water	6010D	855043
500-282251-9	MW-4	Dissolved	Water	6010D	855043
500-282251-10	MW-DUP-1	Dissolved	Water	6010D	855043
500-282251-12	VB-DUP-1	Total/NA	Solid	6010D	854946
MB 500-854946/1-A	Method Blank	Total/NA	Solid	6010D	854946
MB 500-855043/1-A	Method Blank	Total/NA	Water	6010D	855043
LCS 500-854946/2-A	Lab Control Sample	Total/NA	Solid	6010D	854946
LCS 500-855043/2-A	Lab Control Sample	Total/NA	Water	6010D	855043
500-282251-7 MS	MW-3	Dissolved	Water	6010D	855043
500-282251-7 MSD	MW-3	Dissolved	Water	6010D	855043
500-282251-7 DU	MW-3	Dissolved	Water	6010D	855043

Analysis Batch: 855774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	6010D	854946

QC Association Summary

Client: VET Environmental Engineering LLC
Job ID: 500-282251-1
Project/Site: 25-183 College Square

General Chemistry

Analysis Batch: 855022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-282251-1	VB-1 (10'-12')	Total/NA	Solid	Moisture	
500-282251-2	VB-2 (10'-12')	Total/NA	Solid	Moisture	
500-282251-3	VB-3 (10'-12')	Total/NA	Solid	Moisture	
500-282251-4	VB-4 (10'-12')	Total/NA	Solid	Moisture	
500-282251-5	VB-5 (6'-8')	Total/NA	Solid	Moisture	
500-282251-12	VB-DUP-1	Total/NA	Solid	Moisture	

Surrogate Summary

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)
500-282251-1	VB-1 (10'-12')	105	88	89	104
500-282251-4	VB-4 (10'-12')	96	94	95	101
500-282251-5	VB-5 (6'-8')	98	98	100	100
LCS 500-855652/30	Lab Control Sample	97	94	94	101
LCSD 500-855652/31	Lab Control Sample Dup	96	94	94	100
MB 500-855652/9	Method Blank	96	95	94	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-282251-2	VB-2 (10'-12')	100	105	111	100
500-282251-3	VB-3 (10'-12')	98	101	109	100
500-282251-12	VB-DUP-1	96	100	109	100
LCS 500-855772/4	Lab Control Sample	99	108	111	99
LCSD 500-855772/5	Lab Control Sample Dup	97	108	111	99
MB 500-855772/8	Method Blank	97	105	110	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-282251-6	MW-1	100	103	105	101
500-282251-7	MW-3	98	101	105	100
500-282251-7 - DL	MW-3	98	103	106	100
500-282251-7 MS	MW-3	99	104	105	101
500-282251-7 MSD	MW-3	99	102	106	101
500-282251-8	MW-2	99	101	105	99
500-282251-9	MW-4	98	103	105	100
500-282251-10	MW-DUP-1	101	106	108	99
500-282251-11	Trip Blank	98	102	105	100
LCS 500-855771/4	Lab Control Sample	99	108	111	99
LCSD 500-855771/5	Lab Control Sample Dup	97	108	111	99
MB 500-855771/8	Method Blank	97	105	110	99

Surrogate Legend

Client: VET Environmental Engineering LLC
Job ID: 500-282251-1
Project/Site: 25-183 College Square

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-282251-1	VB-1 (10'-12')	92	44	99
500-282251-2	VB-2 (10'-12')	87	72	99
500-282251-3	VB-3 (10'-12')	83	74	96
500-282251-4	VB-4 (10'-12')	88	81	104
500-282251-5	VB-5 (6'-8')	84	78	98
500-282251-12	VB-DUP-1	92	43	96
LCS 500-855134/2-A	Lab Control Sample	82	76	103
MB 500-855134/1-A	Method Blank	80	81	105

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	NBZ (36-120)	FBP (34-110)	TPHL (40-145)
500-282251-6	MW-1	81	83	103
500-282251-7	MW-3	75	77	103
500-282251-7 MS	MW-3	67	67	90
500-282251-7 MSD	MW-3	76	77	107
500-282251-8	MW-2	81	78	94
500-282251-9	MW-4	78	75	86
500-282251-10	MW-DUP-1	77	76	92
LCS 500-854834/2-A	Lab Control Sample	72	72	97
LCS 500-855477/2-A	Lab Control Sample	74	75	102
LCSD 500-854834/3-A	Lab Control Sample Dup	70	67	93
MB 500-854834/1-A	Method Blank	85	82	118
MB 500-855477/1-A	Method Blank	64	56	85

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-855652/9
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020		mg/Kg			03/02/26 17:14	1
Benzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Bromoform	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Bromomethane	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
2-Butanone (MEK)	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Carbon disulfide	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Carbon tetrachloride	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Chlorobenzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Chlorodibromomethane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Chloroethane	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Chloroform	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Chloromethane	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
cis-1,3-Dichloropropene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Cyclohexane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Dichlorobromomethane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,1-Dichloroethane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,2-Dichloroethane	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
1,1-Dichloroethene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,2-Dichloropropane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,4-Dioxane	<0.10		0.10		mg/Kg			03/02/26 17:14	1
Ethylbenzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Ethylene Dibromide	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
2-Hexanone	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Isopropylbenzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Methyl acetate	<0.025		0.025		mg/Kg			03/02/26 17:14	1
Methylcyclohexane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Methylene Chloride	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
methyl isobutyl ketone	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
2-Methylnaphthalene	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Methyl tert-butyl ether	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Naphthalene	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Styrene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Tetrachloroethene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Toluene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
trans-1,3-Dichloropropene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,1,1-Trichloroethane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,1,2-Trichloroethane	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Trichloroethene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Trichlorofluoromethane	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
1,2,4-Trimethylbenzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
1,3,5-Trimethylbenzene	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Vinyl acetate	<0.0050		0.0050		mg/Kg			03/02/26 17:14	1
Vinyl chloride	<0.0020		0.0020		mg/Kg			03/02/26 17:14	1
Xylenes, Total	<0.0040		0.0040		mg/Kg			03/02/26 17:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-855652/9
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*		*03/02/26 17:14*	*1*
Dibromofluoromethane	*95*		*75 - 126*		*03/02/26 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*03/02/26 17:14*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*		*03/02/26 17:14*	*1*

Lab Sample ID: LCS 500-855652/30
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0511		mg/Kg		102	40 - 150
Benzene	0.0500	0.0427		mg/Kg		85	70 - 125
Bromoform	0.0500	0.0462		mg/Kg		92	68 - 136
Bromomethane	0.0500	0.0460		mg/Kg		92	70 - 130
2-Butanone (MEK)	0.0500	0.0613		mg/Kg		123	47 - 138
Carbon disulfide	0.0500	0.0418		mg/Kg		84	70 - 129
Carbon tetrachloride	0.0500	0.0398		mg/Kg		80	75 - 125
Chlorobenzene	0.0500	0.0435		mg/Kg		87	50 - 150
Chlorodibromomethane	0.0500	0.0462		mg/Kg		92	69 - 125
Chloroethane	0.0500	0.0550		mg/Kg		110	75 - 125
Chloroform	0.0500	0.0402		mg/Kg		80	57 - 135
Chloromethane	0.0500	0.0729	*+	mg/Kg		146	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0413		mg/Kg		83	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0450		mg/Kg		90	70 - 125
Cyclohexane	0.0500	0.0521		mg/Kg		104	70 - 125
Dichlorobromomethane	0.0500	0.0405		mg/Kg		81	67 - 129
1,1-Dichloroethane	0.0500	0.0439		mg/Kg		88	70 - 125
1,2-Dichloroethane	0.0500	0.0409		mg/Kg		82	70 - 130
1,1-Dichloroethene	0.0500	0.0409		mg/Kg		82	70 - 120
1,2-Dichloropropane	0.0500	0.0482		mg/Kg		96	70 - 125
1,4-Dioxane	1.00	0.913		mg/Kg		91	70 - 137
Ethylbenzene	0.0500	0.0435		mg/Kg		87	61 - 136
Ethylene Dibromide	0.0500	0.0457		mg/Kg		91	70 - 125
2-Hexanone	0.0500	0.0638		mg/Kg		128	48 - 146
Isopropylbenzene	0.0500	0.0447		mg/Kg		89	70 - 125
Methyl acetate	0.100	0.104		mg/Kg		104	70 - 125
Methylcyclohexane	0.0500	0.0428		mg/Kg		86	70 - 125
Methylene Chloride	0.0500	0.0430		mg/Kg		86	70 - 126
methyl isobutyl ketone	0.0500	0.0623		mg/Kg		125	50 - 148
Methyl tert-butyl ether	0.0500	0.0422		mg/Kg		84	50 - 140
m-Xylene & p-Xylene	0.0500	0.0425		mg/Kg		85	53 - 147
o-Xylene	0.0500	0.0425		mg/Kg		85	75 - 125
Styrene	0.0500	0.0431		mg/Kg		86	70 - 125
Tetrachloroethene	0.0500	0.0441		mg/Kg		88	70 - 124
Toluene	0.0500	0.0430		mg/Kg		86	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0414		mg/Kg		83	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0446		mg/Kg		89	70 - 125
1,1,1-Trichloroethane	0.0500	0.0397		mg/Kg		79	70 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-855652/30
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0442		mg/Kg		88	70 - 125
Trichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125
Trichlorofluoromethane	0.0500	0.0469		mg/Kg		94	70 - 134
1,2,4-Trimethylbenzene	0.0500	0.0442		mg/Kg		88	75 - 125
1,3,5-Trimethylbenzene	0.0500	0.0444		mg/Kg		89	75 - 122
Vinyl acetate	0.0500	0.0579		mg/Kg		116	40 - 153
Vinyl chloride	0.0500	0.0544		mg/Kg		109	70 - 125
Xylenes, Total	0.100	0.0850		mg/Kg		85	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*75 - 131*
Dibromofluoromethane	*94*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*
Toluene-d8 (Surr)	*101*		*75 - 124*

Lab Sample ID: LCSD 500-855652/31
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0497		mg/Kg		99	40 - 150	3	30
Benzene	0.0500	0.0422		mg/Kg		84	70 - 125	1	30
Bromoform	0.0500	0.0469		mg/Kg		94	68 - 136	2	30
Bromomethane	0.0500	0.0441		mg/Kg		88	70 - 130	4	30
2-Butanone (MEK)	0.0500	0.0598		mg/Kg		120	47 - 138	2	30
Carbon disulfide	0.0500	0.0414		mg/Kg		83	70 - 129	1	30
Carbon tetrachloride	0.0500	0.0397		mg/Kg		79	75 - 125	0	30
Chlorobenzene	0.0500	0.0435		mg/Kg		87	50 - 150	0	30
Chlorodibromomethane	0.0500	0.0462		mg/Kg		92	69 - 125	0	30
Chloroethane	0.0500	0.0520		mg/Kg		104	75 - 125	6	30
Chloroform	0.0500	0.0395		mg/Kg		79	57 - 135	2	30
Chloromethane	0.0500	0.0678	*+	mg/Kg		136	70 - 125	7	30
cis-1,2-Dichloroethene	0.0500	0.0403		mg/Kg		81	70 - 125	2	30
cis-1,3-Dichloropropene	0.0500	0.0451		mg/Kg		90	70 - 125	0	30
Cyclohexane	0.0500	0.0514		mg/Kg		103	70 - 125	1	30
Dichlorobromomethane	0.0500	0.0400		mg/Kg		80	67 - 129	1	30
1,1-Dichloroethane	0.0500	0.0433		mg/Kg		87	70 - 125	1	30
1,2-Dichloroethane	0.0500	0.0405		mg/Kg		81	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0412		mg/Kg		82	70 - 120	1	30
1,2-Dichloropropane	0.0500	0.0474		mg/Kg		95	70 - 125	2	30
1,4-Dioxane	1.00	0.926		mg/Kg		93	70 - 137	1	30
Ethylbenzene	0.0500	0.0435		mg/Kg		87	61 - 136	0	30
Ethylene Dibromide	0.0500	0.0457		mg/Kg		91	70 - 125	0	30
2-Hexanone	0.0500	0.0602		mg/Kg		120	48 - 146	6	30
Isopropylbenzene	0.0500	0.0440		mg/Kg		88	70 - 125	2	30
Methyl acetate	0.100	0.105		mg/Kg		105	70 - 125	0	30
Methylcyclohexane	0.0500	0.0421		mg/Kg		84	70 - 125	2	30
Methylene Chloride	0.0500	0.0411		mg/Kg		82	70 - 126	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-855652/31
Matrix: Solid
Analysis Batch: 855652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
methyl isobutyl ketone			0.0500	0.0579		mg/Kg		116	50 - 148	7	30
Methyl tert-butyl ether			0.0500	0.0420		mg/Kg		84	50 - 140	1	30
m-Xylene & p-Xylene			0.0500	0.0426		mg/Kg		85	53 - 147	0	30
o-Xylene			0.0500	0.0422		mg/Kg		84	75 - 125	1	30
Styrene			0.0500	0.0429		mg/Kg		86	70 - 125	0	30
Tetrachloroethene			0.0500	0.0443		mg/Kg		89	70 - 124	0	30
Toluene			0.0500	0.0427		mg/Kg		85	70 - 125	1	30
trans-1,2-Dichloroethene			0.0500	0.0404		mg/Kg		81	70 - 125	3	30
trans-1,3-Dichloropropene			0.0500	0.0447		mg/Kg		89	70 - 125	0	30
1,1,1-Trichloroethane			0.0500	0.0395		mg/Kg		79	70 - 128	1	30
1,1,2-Trichloroethane			0.0500	0.0444		mg/Kg		89	70 - 125	1	30
Trichloroethene			0.0500	0.0430		mg/Kg		86	70 - 125	1	30
Trichlorofluoromethane			0.0500	0.0432		mg/Kg		86	70 - 134	8	30
1,2,4-Trimethylbenzene			0.0500	0.0437		mg/Kg		87	75 - 125	1	30
1,3,5-Trimethylbenzene			0.0500	0.0438		mg/Kg		88	75 - 122	1	30
Vinyl acetate			0.0500	0.0581		mg/Kg		116	40 - 153	0	30
Vinyl chloride			0.0500	0.0506		mg/Kg		101	70 - 125	7	30
Xylenes, Total			0.100	0.0848		mg/Kg		85	53 - 147	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*75 - 131*
Dibromofluoromethane	*94*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: MB 500-855771/8
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/03/26 12:14	1
Benzene	<0.50		0.50		ug/L			03/03/26 12:14	1
Bromoform	<1.0		1.0		ug/L			03/03/26 12:14	1
Bromomethane	<3.0		3.0		ug/L			03/03/26 12:14	1
2-Butanone (MEK)	<5.0		5.0		ug/L			03/03/26 12:14	1
Carbon disulfide	<2.0		2.0		ug/L			03/03/26 12:14	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/03/26 12:14	1
Chlorobenzene	<1.0		1.0		ug/L			03/03/26 12:14	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/03/26 12:14	1
Chloroethane	<5.0		5.0		ug/L			03/03/26 12:14	1
Chloroform	<2.0		2.0		ug/L			03/03/26 12:14	1
Chloromethane	<5.0		5.0		ug/L			03/03/26 12:14	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 12:14	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 12:14	1
Cyclohexane	<1.0		1.0		ug/L			03/03/26 12:14	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/03/26 12:14	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/03/26 12:14	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/03/26 12:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-855771/8
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<1.0		1.0		ug/L			03/03/26 12:14	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/03/26 12:14	1
1,4-Dioxane	<100		100		ug/L			03/03/26 12:14	1
Ethylbenzene	<0.50		0.50		ug/L			03/03/26 12:14	1
Ethylene Dibromide	<1.0		1.0		ug/L			03/03/26 12:14	1
2-Hexanone	<5.0		5.0		ug/L			03/03/26 12:14	1
Isopropylbenzene	<1.0		1.0		ug/L			03/03/26 12:14	1
Methyl acetate	<5.0		5.0		ug/L			03/03/26 12:14	1
Methylcyclohexane	<1.0		1.0		ug/L			03/03/26 12:14	1
Methylene Chloride	<5.0		5.0		ug/L			03/03/26 12:14	1
methyl isobutyl ketone	<5.0		5.0		ug/L			03/03/26 12:14	1
2-Methylnaphthalene	<5.0		5.0		ug/L			03/03/26 12:14	1
Methyl tert-butyl ether	<1.0		1.0		ug/L			03/03/26 12:14	1
Naphthalene	<1.0		1.0		ug/L			03/03/26 12:14	1
Styrene	<1.0		1.0		ug/L			03/03/26 12:14	1
Tetrachloroethene	<1.0		1.0		ug/L			03/03/26 12:14	1
Toluene	<0.50		0.50		ug/L			03/03/26 12:14	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/03/26 12:14	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/03/26 12:14	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/03/26 12:14	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/03/26 12:14	1
Trichloroethene	<0.50		0.50		ug/L			03/03/26 12:14	1
Trichlorofluoromethane	<1.0		1.0		ug/L			03/03/26 12:14	1
1,2,4-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 12:14	1
1,3,5-Trimethylbenzene	<1.0		1.0		ug/L			03/03/26 12:14	1
Vinyl acetate	<2.0		2.0		ug/L			03/03/26 12:14	1
Vinyl chloride	<1.0		1.0		ug/L			03/03/26 12:14	1
Xylenes, Total	<1.0		1.0		ug/L			03/03/26 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*03/03/26 12:14*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*03/03/26 12:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*03/03/26 12:14*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*03/03/26 12:14*	*1*

Lab Sample ID: LCS 500-855771/4
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	50.0	49.3		ug/L		99	40 - 143
Benzene	50.0	52.7		ug/L		105	70 - 120
Bromoform	50.0	54.7		ug/L		109	56 - 132
Bromomethane	50.0	68.8		ug/L		138	40 - 152
2-Butanone (MEK)	50.0	51.5		ug/L		103	46 - 144
Carbon disulfide	50.0	53.7		ug/L		107	66 - 120
Carbon tetrachloride	50.0	58.2		ug/L		116	59 - 133
Chlorobenzene	50.0	50.4		ug/L		101	70 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-855771/4
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	50.0	51.8		ug/L		104	68 - 125
Chloroethane	50.0	59.4		ug/L		119	48 - 136
Chloroform	50.0	47.2		ug/L		94	70 - 120
Chloromethane	50.0	55.0		ug/L		110	56 - 152
cis-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 125
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	64 - 127
Cyclohexane	50.0	48.5		ug/L		97	69 - 142
Dichlorobromomethane	50.0	53.3		ug/L		107	69 - 120
1,1-Dichloroethane	50.0	48.3		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	52.4		ug/L		105	68 - 127
1,1-Dichloroethene	50.0	51.4		ug/L		103	67 - 122
1,2-Dichloropropane	50.0	48.9		ug/L		98	67 - 130
1,4-Dioxane	1000	967		ug/L		97	70 - 129
Ethylbenzene	50.0	52.1		ug/L		104	70 - 123
Ethylene Dibromide	50.0	53.2		ug/L		106	70 - 125
2-Hexanone	50.0	51.3		ug/L		103	54 - 146
Isopropylbenzene	50.0	47.1		ug/L		94	70 - 126
Methyl acetate	100	89.3		ug/L		89	56 - 150
Methylcyclohexane	50.0	51.8		ug/L		104	70 - 120
Methylene Chloride	50.0	46.1		ug/L		92	69 - 125
methyl isobutyl ketone	50.0	59.1		ug/L		118	55 - 139
Methyl tert-butyl ether	50.0	53.2		ug/L		106	55 - 123
m-Xylene & p-Xylene	50.0	54.8		ug/L		110	70 - 125
o-Xylene	50.0	53.3		ug/L		107	70 - 120
Styrene	50.0	53.5		ug/L		107	70 - 120
Tetrachloroethene	50.0	54.0		ug/L		108	70 - 128
Toluene	50.0	49.6		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	70 - 125
trans-1,3-Dichloropropene	50.0	59.4		ug/L		119	62 - 128
1,1,1-Trichloroethane	50.0	56.8		ug/L		114	70 - 125
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	71 - 130
Trichloroethene	50.0	46.7		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	68.4	*+	ug/L		137	55 - 128
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	70 - 123
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	70 - 123
Vinyl acetate	50.0	53.3		ug/L		107	43 - 133
Vinyl chloride	50.0	56.8		ug/L		114	64 - 126
Xylenes, Total	100	108		ug/L		108	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-855771/5
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			50.0	48.5		ug/L		97	40 - 143	2	20
Benzene			50.0	52.4		ug/L		105	70 - 120	1	20
Bromoform			50.0	54.1		ug/L		108	56 - 132	1	20
Bromomethane			50.0	68.2		ug/L		136	40 - 152	1	20
2-Butanone (MEK)			50.0	50.3		ug/L		101	46 - 144	2	20
Carbon disulfide			50.0	53.3		ug/L		107	66 - 120	1	20
Carbon tetrachloride			50.0	57.4		ug/L		115	59 - 133	1	20
Chlorobenzene			50.0	49.4		ug/L		99	70 - 120	2	20
Chlorodibromomethane			50.0	50.7		ug/L		101	68 - 125	2	20
Chloroethane			50.0	56.1		ug/L		112	48 - 136	6	20
Chloroform			50.0	46.8		ug/L		94	70 - 120	1	20
Chloromethane			50.0	53.8		ug/L		108	56 - 152	2	20
cis-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 125	0	20
cis-1,3-Dichloropropene			50.0	55.1		ug/L		110	64 - 127	2	20
Cyclohexane			50.0	48.2		ug/L		96	69 - 142	1	20
Dichlorobromomethane			50.0	52.3		ug/L		105	69 - 120	2	20
1,1-Dichloroethane			50.0	47.9		ug/L		96	70 - 125	1	20
1,2-Dichloroethane			50.0	51.1		ug/L		102	68 - 127	2	20
1,1-Dichloroethene			50.0	52.2		ug/L		104	67 - 122	1	20
1,2-Dichloropropane			50.0	47.6		ug/L		95	67 - 130	3	20
1,4-Dioxane			1000	964		ug/L		96	70 - 129	0	20
Ethylbenzene			50.0	51.9		ug/L		104	70 - 123	0	20
Ethylene Dibromide			50.0	52.2		ug/L		104	70 - 125	2	20
2-Hexanone			50.0	49.8		ug/L		100	54 - 146	3	20
Isopropylbenzene			50.0	46.6		ug/L		93	70 - 126	1	20
Methyl acetate			100	87.3		ug/L		87	56 - 150	2	20
Methylcyclohexane			50.0	51.6		ug/L		103	70 - 120	0	20
Methylene Chloride			50.0	45.4		ug/L		91	69 - 125	2	20
methyl isobutyl ketone			50.0	58.0		ug/L		116	55 - 139	2	20
Methyl tert-butyl ether			50.0	52.3		ug/L		105	55 - 123	2	20
m-Xylene & p-Xylene			50.0	54.2		ug/L		108	70 - 125	1	20
o-Xylene			50.0	52.8		ug/L		106	70 - 120	1	20
Styrene			50.0	53.0		ug/L		106	70 - 120	1	20
Tetrachloroethene			50.0	53.8		ug/L		108	70 - 128	0	20
Toluene			50.0	49.0		ug/L		98	70 - 125	1	20
trans-1,2-Dichloroethene			50.0	51.1		ug/L		102	70 - 125	1	20
trans-1,3-Dichloropropene			50.0	57.9		ug/L		116	62 - 128	3	20
1,1,1-Trichloroethane			50.0	55.9		ug/L		112	70 - 125	2	20
1,1,2-Trichloroethane			50.0	48.5		ug/L		97	71 - 130	2	20
Trichloroethene			50.0	46.0		ug/L		92	70 - 125	1	20
Trichlorofluoromethane			50.0	65.7	*+	ug/L		131	55 - 128	4	20
1,2,4-Trimethylbenzene			50.0	47.5		ug/L		95	70 - 123	1	20
1,3,5-Trimethylbenzene			50.0	47.7		ug/L		95	70 - 123	1	20
Vinyl acetate			50.0	51.8		ug/L		104	43 - 133	3	20
Vinyl chloride			50.0	54.3		ug/L		109	64 - 126	4	20
Xylenes, Total			100	107		ug/L		107	70 - 125	1	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-855771/5
Matrix: Water
Analysis Batch: 855771

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-282251-7 MS
Matrix: Water
Analysis Batch: 855771

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<10		50.0	67.2		ug/L		123	40 - 143
Benzene	41		50.0	101		ug/L		119	70 - 120
Bromoform	<1.0		50.0	57.2		ug/L		114	56 - 132
Bromomethane	<3.0		50.0	73.4		ug/L		147	40 - 152
2-Butanone (MEK)	<5.0		50.0	56.9		ug/L		114	46 - 144
Carbon disulfide	<2.0	F1	50.0	64.2	F1	ug/L		128	66 - 120
Carbon tetrachloride	<1.0		50.0	61.5		ug/L		123	59 - 133
Chlorobenzene	<1.0		50.0	55.4		ug/L		111	70 - 120
Chlorodibromomethane	<1.0		50.0	54.6		ug/L		109	68 - 125
Chloroethane	<5.0		50.0	66.0		ug/L		132	48 - 136
Chloroform	<2.0		50.0	53.8		ug/L		108	70 - 120
Chloromethane	<5.0		50.0	59.9		ug/L		120	56 - 152
cis-1,2-Dichloroethene	<1.0		50.0	56.5		ug/L		113	70 - 125
cis-1,3-Dichloropropene	<1.0		50.0	59.2		ug/L		118	64 - 127
Cyclohexane	250	E	50.0	369	E 4	ug/L		232	69 - 142
Dichlorobromomethane	<1.0		50.0	55.1		ug/L		110	69 - 120
1,1-Dichloroethane	<1.0		50.0	54.1		ug/L		107	70 - 125
1,2-Dichloroethane	<1.0		50.0	54.4		ug/L		107	68 - 127
1,1-Dichloroethene	<1.0		50.0	60.8		ug/L		122	67 - 122
1,2-Dichloropropane	<1.0		50.0	52.9		ug/L		106	67 - 130
1,4-Dioxane	<100		1000	1040		ug/L		104	70 - 129
Ethylbenzene	20	F1	50.0	88.4	F1	ug/L		137	70 - 123
Ethylene Dibromide	<1.0		50.0	57.6		ug/L		115	70 - 125
2-Hexanone	<5.0		50.0	65.2		ug/L		130	54 - 146
Isopropylbenzene	32	F1	50.0	96.3	F1	ug/L		128	70 - 126
Methyl acetate	<5.0		100	93.4		ug/L		93	56 - 150
Methylcyclohexane	130	F1	50.0	232	E F1	ug/L		204	70 - 120
Methylene Chloride	<5.0		50.0	49.5		ug/L		99	69 - 125
methyl isobutyl ketone	<5.0	F1	50.0	74.1	F1	ug/L		148	55 - 139
Methyl tert-butyl ether	<1.0		50.0	58.0		ug/L		116	55 - 123
m-Xylene & p-Xylene	17	F1	50.0	80.6	F1	ug/L		127	70 - 125
o-Xylene	1.3		50.0	60.3		ug/L		118	70 - 120
Styrene	<1.0		50.0	59.0		ug/L		118	70 - 120
Tetrachloroethene	<1.0		50.0	61.4		ug/L		123	70 - 128
Toluene	3.0		50.0	59.3		ug/L		113	70 - 125
trans-1,2-Dichloroethene	<1.0		50.0	59.4		ug/L		119	70 - 125
trans-1,3-Dichloropropene	<1.0		50.0	61.1		ug/L		122	62 - 128
1,1,1-Trichloroethane	<1.0		50.0	60.8		ug/L		122	70 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-282251-7 MS
Matrix: Water
Analysis Batch: 855771

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	<1.0		50.0	54.8		ug/L		110	71 - 130
Trichloroethene	<0.50		50.0	51.6		ug/L		103	70 - 125
Trichlorofluoromethane	<1.0	*+ F1	50.0	69.2	F1	ug/L		138	55 - 128
1,2,4-Trimethylbenzene	3.3		50.0	60.8		ug/L		115	70 - 123
1,3,5-Trimethylbenzene	2.5		50.0	58.6		ug/L		112	70 - 123
Vinyl acetate	<2.0		50.0	55.6		ug/L		111	43 - 133
Vinyl chloride	<1.0	F1	50.0	63.5	F1	ug/L		127	64 - 126
Xylenes, Total	18		100	141		ug/L		123	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*104*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: 500-282251-7 MSD
Matrix: Water
Analysis Batch: 855771

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<10		50.0	60.5		ug/L		110	40 - 143	11	20
Benzene	41		50.0	92.1		ug/L		102	70 - 120	9	20
Bromoform	<1.0		50.0	50.8		ug/L		102	56 - 132	12	20
Bromomethane	<3.0		50.0	68.1		ug/L		136	40 - 152	7	20
2-Butanone (MEK)	<5.0		50.0	52.2		ug/L		104	46 - 144	9	20
Carbon disulfide	<2.0	F1	50.0	55.4		ug/L		111	66 - 120	15	20
Carbon tetrachloride	<1.0		50.0	53.4		ug/L		107	59 - 133	14	20
Chlorobenzene	<1.0		50.0	48.4		ug/L		97	70 - 120	13	20
Chlorodibromomethane	<1.0		50.0	47.7		ug/L		95	68 - 125	13	20
Chloroethane	<5.0		50.0	57.9		ug/L		116	48 - 136	13	20
Chloroform	<2.0		50.0	47.0		ug/L		94	70 - 120	13	20
Chloromethane	<5.0		50.0	55.2		ug/L		110	56 - 152	8	20
cis-1,2-Dichloroethene	<1.0		50.0	49.0		ug/L		98	70 - 125	14	20
cis-1,3-Dichloropropene	<1.0		50.0	51.6		ug/L		103	64 - 127	14	20
Cyclohexane	250	E	50.0	348	E 4	ug/L		188	69 - 142	6	20
Dichlorobromomethane	<1.0		50.0	48.9		ug/L		98	69 - 120	12	20
1,1-Dichloroethane	<1.0		50.0	46.6		ug/L		92	70 - 125	15	20
1,2-Dichloroethane	<1.0		50.0	47.0		ug/L		92	68 - 127	15	20
1,1-Dichloroethene	<1.0		50.0	52.6		ug/L		105	67 - 122	14	20
1,2-Dichloropropane	<1.0		50.0	45.6		ug/L		91	67 - 130	15	20
1,4-Dioxane	<100		1000	924		ug/L		92	70 - 129	12	20
Ethylbenzene	20	F1	50.0	79.2		ug/L		119	70 - 123	11	20
Ethylene Dibromide	<1.0		50.0	50.7		ug/L		101	70 - 125	13	20
2-Hexanone	<5.0		50.0	58.3		ug/L		117	54 - 146	11	20
Isopropylbenzene	32	F1	50.0	87.5		ug/L		111	70 - 126	10	20
Methyl acetate	<5.0		100	82.2		ug/L		82	56 - 150	13	20
Methylcyclohexane	130	F1	50.0	216	E F1	ug/L		173	70 - 120	7	20
Methylene Chloride	<5.0		50.0	42.5		ug/L		85	69 - 125	15	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-282251-7 MSD
Matrix: Water
Analysis Batch: 855771

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
methyl isobutyl ketone	<5.0	F1	50.0	65.0		ug/L		130	55 - 139	13	20
Methyl tert-butyl ether	<1.0		50.0	51.0		ug/L		102	55 - 123	13	20
m-Xylene & p-Xylene	17	F1	50.0	71.9		ug/L		110	70 - 125	11	20
o-Xylene	1.3		50.0	52.0		ug/L		101	70 - 120	15	20
Styrene	<1.0		50.0	51.2		ug/L		102	70 - 120	14	20
Tetrachloroethene	<1.0		50.0	53.0		ug/L		106	70 - 128	15	20
Toluene	3.0		50.0	51.5		ug/L		97	70 - 125	14	20
trans-1,2-Dichloroethene	<1.0		50.0	51.6		ug/L		103	70 - 125	14	20
trans-1,3-Dichloropropene	<1.0		50.0	54.4		ug/L		109	62 - 128	12	20
1,1,1-Trichloroethane	<1.0		50.0	52.9		ug/L		106	70 - 125	14	20
1,1,2-Trichloroethane	<1.0		50.0	48.2		ug/L		96	71 - 130	13	20
Trichloroethene	<0.50		50.0	44.2		ug/L		88	70 - 125	15	20
Trichlorofluoromethane	<1.0	*+ F1	50.0	60.0		ug/L		120	55 - 128	14	20
1,2,4-Trimethylbenzene	3.3		50.0	53.1		ug/L		100	70 - 123	13	20
1,3,5-Trimethylbenzene	2.5		50.0	51.2		ug/L		97	70 - 123	13	20
Vinyl acetate	<2.0		50.0	49.0		ug/L		98	43 - 133	13	20
Vinyl chloride	<1.0	F1	50.0	55.4		ug/L		111	64 - 126	14	20
Xylenes, Total	18		100	124		ug/L		106	70 - 125	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-855772/8
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.010		0.010		mg/Kg			03/03/26 12:14	1
Benzene	<0.00025		0.00025		mg/Kg			03/03/26 12:14	1
Bromoform	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Bromomethane	<0.0030		0.0030		mg/Kg			03/03/26 12:14	1
2-Butanone (MEK)	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
Carbon disulfide	<0.0020		0.0020		mg/Kg			03/03/26 12:14	1
Carbon tetrachloride	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Chlorobenzene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Chlorodibromomethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Chloroethane	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
Chloroform	<0.0020		0.0020		mg/Kg			03/03/26 12:14	1
Chloromethane	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
cis-1,2-Dichloroethene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
cis-1,3-Dichloropropene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Cyclohexane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Dichlorobromomethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,1-Dichloroethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,2-Dichloroethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-855772/8
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,2-Dichloropropane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,4-Dioxane	<0.10		0.10		mg/Kg			03/03/26 12:14	1
Ethylbenzene	<0.00025		0.00025		mg/Kg			03/03/26 12:14	1
Ethylene Dibromide	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
2-Hexanone	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
Isopropylbenzene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Methyl acetate	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
Methylcyclohexane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Methylene Chloride	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
methyl isobutyl ketone	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
2-Methylnaphthalene	<0.0050		0.0050		mg/Kg			03/03/26 12:14	1
Methyl tert-butyl ether	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Naphthalene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Styrene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Tetrachloroethene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Toluene	<0.00025		0.00025		mg/Kg			03/03/26 12:14	1
trans-1,2-Dichloroethene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
trans-1,3-Dichloropropene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,1,1-Trichloroethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,1,2-Trichloroethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Trichloroethene	<0.00050		0.00050		mg/Kg			03/03/26 12:14	1
Trichlorofluoromethane	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,2,4-Trimethylbenzene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
1,3,5-Trimethylbenzene	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Vinyl acetate	<0.0020		0.0020		mg/Kg			03/03/26 12:14	1
Vinyl chloride	<0.0010		0.0010		mg/Kg			03/03/26 12:14	1
Xylenes, Total	<0.00050		0.00050		mg/Kg			03/03/26 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*03/03/26 12:14*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*03/03/26 12:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*		*03/03/26 12:14*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*03/03/26 12:14*	*1*

Lab Sample ID: LCS 500-855772/4
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	0.0500	0.0493		mg/Kg		99	40 - 143
Benzene	0.0500	0.0527		mg/Kg		105	70 - 120
Bromoform	0.0500	0.0547		mg/Kg		109	56 - 132
Bromomethane	0.0500	0.0688		mg/Kg		138	40 - 152
2-Butanone (MEK)	0.0500	0.0515		mg/Kg		103	46 - 144
Carbon disulfide	0.0500	0.0537		mg/Kg		107	66 - 120
Carbon tetrachloride	0.0500	0.0582		mg/Kg		116	59 - 133
Chlorobenzene	0.0500	0.0504		mg/Kg		101	70 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-855772/4
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorodibromomethane	0.0500	0.0518		mg/Kg		104	68 - 125
Chloroethane	0.0500	0.0594		mg/Kg		119	48 - 136
Chloroform	0.0500	0.0472		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0550		mg/Kg		110	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0560		mg/Kg		112	64 - 127
Cyclohexane	0.0500	0.0485		mg/Kg		97	69 - 142
Dichlorobromomethane	0.0500	0.0533		mg/Kg		107	69 - 120
1,1-Dichloroethane	0.0500	0.0483		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0524		mg/Kg		105	68 - 127
1,1-Dichloroethene	0.0500	0.0514		mg/Kg		103	67 - 122
1,2-Dichloropropane	0.0500	0.0489		mg/Kg		98	67 - 130
1,4-Dioxane	1.00	0.967		mg/Kg		97	70 - 129
Ethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 123
Ethylene Dibromide	0.0500	0.0532		mg/Kg		106	70 - 125
2-Hexanone	0.0500	0.0513		mg/Kg		103	54 - 146
Isopropylbenzene	0.0500	0.0471		mg/Kg		94	70 - 126
Methyl acetate	0.100	0.0893		mg/Kg		89	56 - 150
Methylcyclohexane	0.0500	0.0518		mg/Kg		104	70 - 120
Methylene Chloride	0.0500	0.0461		mg/Kg		92	69 - 125
methyl isobutyl ketone	0.0500	0.0591		mg/Kg		118	55 - 139
Methyl tert-butyl ether	0.0500	0.0532		mg/Kg		106	55 - 123
m-Xylene & p-Xylene	0.0500	0.0548		mg/Kg		110	70 - 125
o-Xylene	0.0500	0.0533		mg/Kg		107	70 - 120
Styrene	0.0500	0.0535		mg/Kg		107	70 - 120
Tetrachloroethene	0.0500	0.0540		mg/Kg		108	70 - 128
Toluene	0.0500	0.0496		mg/Kg		99	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0519		mg/Kg		104	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0594		mg/Kg		119	62 - 128
1,1,1-Trichloroethane	0.0500	0.0568		mg/Kg		114	70 - 125
1,1,2-Trichloroethane	0.0500	0.0496		mg/Kg		99	71 - 130
Trichloroethene	0.0500	0.0467		mg/Kg		93	70 - 125
Trichlorofluoromethane	0.0500	0.0684	*+	mg/Kg		137	55 - 128
1,2,4-Trimethylbenzene	0.0500	0.0482		mg/Kg		96	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0479		mg/Kg		96	70 - 123
Vinyl acetate	0.0500	0.0533		mg/Kg		107	43 - 133
Vinyl chloride	0.0500	0.0568		mg/Kg		114	64 - 126
Xylenes, Total	0.100	0.108		mg/Kg		108	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-855772/5
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			0.0500	0.0485		mg/Kg		97	40 - 143	2	30
Benzene			0.0500	0.0524		mg/Kg		105	70 - 120	1	30
Bromoform			0.0500	0.0541		mg/Kg		108	56 - 132	1	30
Bromomethane			0.0500	0.0682		mg/Kg		136	40 - 152	1	30
2-Butanone (MEK)			0.0500	0.0503		mg/Kg		101	46 - 144	2	30
Carbon disulfide			0.0500	0.0533		mg/Kg		107	66 - 120	1	30
Carbon tetrachloride			0.0500	0.0574		mg/Kg		115	59 - 133	1	30
Chlorobenzene			0.0500	0.0494		mg/Kg		99	70 - 120	2	30
Chlorodibromomethane			0.0500	0.0507		mg/Kg		101	68 - 125	2	30
Chloroethane			0.0500	0.0561		mg/Kg		112	48 - 136	6	30
Chloroform			0.0500	0.0468		mg/Kg		94	70 - 120	1	30
Chloromethane			0.0500	0.0538		mg/Kg		108	56 - 152	2	30
cis-1,2-Dichloroethene			0.0500	0.0507		mg/Kg		101	70 - 125	0	30
cis-1,3-Dichloropropene			0.0500	0.0551		mg/Kg		110	64 - 127	2	30
Cyclohexane			0.0500	0.0482		mg/Kg		96	69 - 142	1	30
Dichlorobromomethane			0.0500	0.0523		mg/Kg		105	69 - 120	2	30
1,1-Dichloroethane			0.0500	0.0479		mg/Kg		96	70 - 125	1	30
1,2-Dichloroethane			0.0500	0.0511		mg/Kg		102	68 - 127	2	30
1,1-Dichloroethene			0.0500	0.0522		mg/Kg		104	67 - 122	1	30
1,2-Dichloropropane			0.0500	0.0476		mg/Kg		95	67 - 130	3	30
1,4-Dioxane			1.00	0.964		mg/Kg		96	70 - 129	0	30
Ethylbenzene			0.0500	0.0519		mg/Kg		104	70 - 123	0	30
Ethylene Dibromide			0.0500	0.0522		mg/Kg		104	70 - 125	2	30
2-Hexanone			0.0500	0.0498		mg/Kg		100	54 - 146	3	30
Isopropylbenzene			0.0500	0.0466		mg/Kg		93	70 - 126	1	30
Methyl acetate			0.100	0.0873		mg/Kg		87	56 - 150	2	30
Methylcyclohexane			0.0500	0.0516		mg/Kg		103	70 - 120	0	30
Methylene Chloride			0.0500	0.0454		mg/Kg		91	69 - 125	2	30
methyl isobutyl ketone			0.0500	0.0580		mg/Kg		116	55 - 139	2	30
Methyl tert-butyl ether			0.0500	0.0523		mg/Kg		105	55 - 123	2	30
m-Xylene & p-Xylene			0.0500	0.0542		mg/Kg		108	70 - 125	1	30
o-Xylene			0.0500	0.0528		mg/Kg		106	70 - 120	1	30
Styrene			0.0500	0.0530		mg/Kg		106	70 - 120	1	30
Tetrachloroethene			0.0500	0.0538		mg/Kg		108	70 - 128	0	30
Toluene			0.0500	0.0490		mg/Kg		98	70 - 125	1	30
trans-1,2-Dichloroethene			0.0500	0.0511		mg/Kg		102	70 - 125	1	30
trans-1,3-Dichloropropene			0.0500	0.0579		mg/Kg		116	62 - 128	3	30
1,1,1-Trichloroethane			0.0500	0.0559		mg/Kg		112	70 - 125	2	30
1,1,2-Trichloroethane			0.0500	0.0485		mg/Kg		97	71 - 130	2	30
Trichloroethene			0.0500	0.0460		mg/Kg		92	70 - 125	1	30
Trichlorofluoromethane			0.0500	0.0657	*+	mg/Kg		131	55 - 128	4	30
1,2,4-Trimethylbenzene			0.0500	0.0475		mg/Kg		95	70 - 123	1	30
1,3,5-Trimethylbenzene			0.0500	0.0477		mg/Kg		95	70 - 123	1	30
Vinyl acetate			0.0500	0.0518		mg/Kg		104	43 - 133	3	30
Vinyl chloride			0.0500	0.0543		mg/Kg		109	64 - 126	4	30
Xylenes, Total			0.100	0.107		mg/Kg		107	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-855772/5
Matrix: Solid
Analysis Batch: 855772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane	*108*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-854834/1-A
Matrix: Water
Analysis Batch: 854927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 854834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Acenaphthylene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Anthracene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Benzo[a]anthracene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Benzo[a]pyrene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Benzo[b]fluoranthene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Benzo[g,h,i]perylene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Benzo[k]fluoranthene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Chrysene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Dibenz(a,h)anthracene	<0.24		0.24		ug/L		02/24/26 15:12	02/25/26 10:55	1
Fluoranthene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16		ug/L		02/24/26 15:12	02/25/26 10:55	1
Naphthalene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
2-Methylnaphthalene	<1.6		1.6		ug/L		02/24/26 15:12	02/25/26 10:55	1
Phenanthrene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Fluorene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
Pyrene	<0.80		0.80		ug/L		02/24/26 15:12	02/25/26 10:55	1
1-Methylnaphthalene	<1.6		1.6		ug/L		02/24/26 15:12	02/25/26 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*82*		*34 - 110*	*02/24/26 15:12*	*02/25/26 10:55*	*1*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*	*02/24/26 15:12*	*02/25/26 10:55*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*02/24/26 15:12*	*02/25/26 10:55*	*1*

Lab Sample ID: LCS 500-854834/2-A
Matrix: Water
Analysis Batch: 854927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 854834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	40.0	29.2		ug/L		73	46 - 110
Acenaphthylene	40.0	29.2		ug/L		73	47 - 113
Anthracene	40.0	34.1		ug/L		85	67 - 118
Benzo[a]anthracene	40.0	34.6		ug/L		87	70 - 126
Benzo[a]pyrene	40.0	38.6		ug/L		96	70 - 135
Benzo[b]fluoranthene	40.0	38.1		ug/L		95	69 - 136
Benzo[g,h,i]perylene	40.0	37.4		ug/L		94	70 - 135

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-854834/2-A
Matrix: Water
Analysis Batch: 854927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 854834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzo[k]fluoranthene			40.0	36.6		ug/L		92	70 - 133		
Chrysene			40.0	36.2		ug/L		90	68 - 129		
Dibenz(a,h)anthracene			40.0	37.4		ug/L		94	70 - 134		
Fluoranthene			40.0	33.7		ug/L		84	68 - 126		
Indeno[1,2,3-cd]pyrene			40.0	38.3		ug/L		96	65 - 133		
Naphthalene			40.0	22.6		ug/L		57	36 - 110		
2-Methylnaphthalene			40.0	23.9		ug/L		60	34 - 110		
Phenanthrene			40.0	34.6		ug/L		86	65 - 120		
Fluorene			40.0	32.5		ug/L		81	53 - 120		
Pyrene			40.0	38.6		ug/L		96	70 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*34 - 110*
Nitrobenzene-d5 (Surr)	*72*		*36 - 120*
Terphenyl-d14 (Surr)	*97*		*40 - 145*

Lab Sample ID: LCSD 500-854834/3-A
Matrix: Water
Analysis Batch: 854927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 854834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			40.0	27.6		ug/L		69	46 - 110	6	20
Acenaphthylene			40.0	27.0		ug/L		68	47 - 113	8	20
Anthracene			40.0	30.9		ug/L		77	67 - 118	10	20
Benzo[a]anthracene			40.0	31.4		ug/L		78	70 - 126	10	20
Benzo[a]pyrene			40.0	34.4		ug/L		86	70 - 135	11	20
Benzo[b]fluoranthene			40.0	34.2		ug/L		85	69 - 136	11	20
Benzo[g,h,i]perylene			40.0	33.2		ug/L		83	70 - 135	12	20
Benzo[k]fluoranthene			40.0	32.8		ug/L		82	70 - 133	11	20
Chrysene			40.0	32.7		ug/L		82	68 - 129	10	20
Dibenz(a,h)anthracene			40.0	33.3		ug/L		83	70 - 134	12	20
Fluoranthene			40.0	31.2		ug/L		78	68 - 126	8	20
Indeno[1,2,3-cd]pyrene			40.0	33.5		ug/L		84	65 - 133	13	20
Naphthalene			40.0	24.9		ug/L		62	36 - 110	10	20
2-Methylnaphthalene			40.0	26.4		ug/L		66	34 - 110	10	20
Phenanthrene			40.0	30.9		ug/L		77	65 - 120	11	20
Fluorene			40.0	29.0		ug/L		73	53 - 120	11	20
Pyrene			40.0	34.1		ug/L		85	70 - 126	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*34 - 110*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*
Terphenyl-d14 (Surr)	*93*		*40 - 145*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-855134/1-A
Matrix: Solid
Analysis Batch: 855224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 855134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Acenaphthylene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Anthracene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Benzo[a]anthracene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Benzo[a]pyrene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Benzo[b]fluoranthene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Benzo[g,h,i]perylene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Benzo[k]fluoranthene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Chrysene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Dibenz(a,h)anthracene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Fluoranthene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Naphthalene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
2-Methylnaphthalene	<0.067		0.067		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Phenanthrene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Fluorene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
Pyrene	<0.033		0.033		mg/Kg		02/26/26 08:31	02/26/26 22:36	1
1-Methylnaphthalene	<0.067		0.067		mg/Kg		02/26/26 08:31	02/26/26 22:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*43 - 145*	*02/26/26 08:31*	*02/26/26 22:36*	*1*
Nitrobenzene-d5 (Surr)	*81*		*37 - 147*	*02/26/26 08:31*	*02/26/26 22:36*	*1*
Terphenyl-d14 (Surr)	*105*		*42 - 157*	*02/26/26 08:31*	*02/26/26 22:36*	*1*

Lab Sample ID: LCS 500-855134/2-A
Matrix: Solid
Analysis Batch: 855224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 855134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.62		mg/Kg		79	63 - 109
Acenaphthylene	3.33	2.76		mg/Kg		83	61 - 115
Anthracene	3.33	2.78		mg/Kg		83	68 - 120
Benzo[a]anthracene	3.33	2.94		mg/Kg		88	70 - 121
Benzo[a]pyrene	3.33	2.77		mg/Kg		83	73 - 132
Benzo[b]fluoranthene	3.33	2.81		mg/Kg		84	68 - 123
Benzo[g,h,i]perylene	3.33	2.37		mg/Kg		71	65 - 126
Benzo[k]fluoranthene	3.33	2.77		mg/Kg		83	64 - 128
Chrysene	3.33	3.24		mg/Kg		97	70 - 123
Dibenz(a,h)anthracene	3.33	2.54		mg/Kg		76	66 - 125
Fluoranthene	3.33	2.70		mg/Kg		81	66 - 123
Indeno[1,2,3-cd]pyrene	3.33	2.44		mg/Kg		73	66 - 131
Naphthalene	3.33	2.52		mg/Kg		76	54 - 98
2-Methylnaphthalene	3.33	2.69		mg/Kg		81	58 - 103
Phenanthrene	3.33	2.77		mg/Kg		83	65 - 115
Fluorene	3.33	2.62		mg/Kg		79	62 - 113
Pyrene	3.33	3.36		mg/Kg		101	71 - 128

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-855134/2-A
Matrix: Solid
Analysis Batch: 855224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 855134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*43 - 145*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*
Terphenyl-d14 (Surr)	*103*		*42 - 157*

Lab Sample ID: MB 500-855477/1-A
Matrix: Water
Analysis Batch: 855595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 855477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Acenaphthylene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Anthracene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Benzo[a]anthracene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Benzo[a]pyrene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Benzo[b]fluoranthene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Benzo[g,h,i]perylene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Benzo[k]fluoranthene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Chrysene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Dibenz(a,h)anthracene	<0.24		0.24		ug/L		02/27/26 15:17	03/02/26 12:12	1
Fluoranthene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16		ug/L		02/27/26 15:17	03/02/26 12:12	1
Naphthalene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
2-Methylnaphthalene	<1.6		1.6		ug/L		02/27/26 15:17	03/02/26 12:12	1
Phenanthrene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Fluorene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
Pyrene	<0.80		0.80		ug/L		02/27/26 15:17	03/02/26 12:12	1
1-Methylnaphthalene	<1.6		1.6		ug/L		02/27/26 15:17	03/02/26 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*34 - 110*	*02/27/26 15:17*	*03/02/26 12:12*	*1*
Nitrobenzene-d5 (Surr)	*64*		*36 - 120*	*02/27/26 15:17*	*03/02/26 12:12*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 145*	*02/27/26 15:17*	*03/02/26 12:12*	*1*

Lab Sample ID: LCS 500-855477/2-A
Matrix: Water
Analysis Batch: 855595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 855477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	40.0	30.6		ug/L		76	46 - 110
Acenaphthylene	40.0	30.5		ug/L		76	47 - 113
Anthracene	40.0	33.8		ug/L		84	67 - 118
Benzo[a]anthracene	40.0	35.5		ug/L		89	70 - 126
Benzo[a]pyrene	40.0	38.8		ug/L		97	70 - 135
Benzo[b]fluoranthene	40.0	38.6		ug/L		96	69 - 136
Benzo[g,h,i]perylene	40.0	33.7		ug/L		84	70 - 135
Benzo[k]fluoranthene	40.0	39.9		ug/L		100	70 - 133
Chrysene	40.0	36.8		ug/L		92	68 - 129
Dibenz(a,h)anthracene	40.0	35.2		ug/L		88	70 - 134

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-855477/2-A
Matrix: Water
Analysis Batch: 855595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 855477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	40.0	34.5		ug/L		86	68 - 126
Indeno[1,2,3-cd]pyrene	40.0	34.6		ug/L		86	65 - 133
Naphthalene	40.0	28.4		ug/L		71	36 - 110
2-Methylnaphthalene	40.0	31.2		ug/L		78	34 - 110
Phenanthrene	40.0	33.8		ug/L		85	65 - 120
Fluorene	40.0	32.4		ug/L		81	53 - 120
Pyrene	40.0	39.6		ug/L		99	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 110*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*
Terphenyl-d14 (Surr)	*102*		*40 - 145*

Lab Sample ID: 500-282251-7 MS
Matrix: Water
Analysis Batch: 855595

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 855477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<5.3	F2	41.0	31.0		ug/L		76	46 - 110
Acenaphthylene	<5.3	F2	41.0	30.2		ug/L		74	47 - 113
Anthracene	<5.3	F2	41.0	32.0		ug/L		78	67 - 118
Benzo[a]anthracene	<1.1	F2	41.0	33.9		ug/L		83	70 - 126
Benzo[a]pyrene	<1.1	F2	41.0	35.4		ug/L		87	70 - 135
Benzo[b]fluoranthene	<1.1	F2	41.0	35.3		ug/L		86	69 - 136
Benzo[g,h,i]perylene	<5.3	F1 F2	41.0	45.0		ug/L		110	70 - 135
Benzo[k]fluoranthene	<1.1	F2	41.0	34.8		ug/L		85	70 - 133
Chrysene	<1.1	F2	41.0	35.2		ug/L		86	68 - 129
Dibenz(a,h)anthracene	<1.6	F1 F2	41.0	41.8		ug/L		102	70 - 134
Fluoranthene	<5.3	F2	41.0	30.9		ug/L		75	68 - 126
Indeno[1,2,3-cd]pyrene	<1.1	F1 F2	41.0	42.7		ug/L		104	65 - 133
Naphthalene	<5.3	F2	41.0	28.1		ug/L		69	36 - 110
Phenanthrene	<5.3	F2	41.0	33.1		ug/L		81	65 - 120
Pyrene	<5.3	F1 F2	41.0	39.5		ug/L		97	70 - 126
2-Methylnaphthalene	12	F2	41.0	40.9		ug/L		70	34 - 110
Fluorene	<5.3	F2	41.0	32.4		ug/L		79	53 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*67*		*36 - 120*
2-Fluorobiphenyl	*67*		*34 - 110*
Terphenyl-d14 (Surr)	*90*		*40 - 145*

Lab Sample ID: 500-282251-7 MSD
Matrix: Water
Analysis Batch: 855595

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 855477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<5.3	F2	41.3	42.8	F2	ug/L		104	46 - 110	32	20
Acenaphthylene	<5.3	F2	41.3	41.9	F2	ug/L		101	47 - 113	32	20

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-282251-7 MSD
Matrix: Water
Analysis Batch: 855595

Client Sample ID: MW-3
Prep Type: Total/NA
Prep Batch: 855477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	<5.3	F2	41.3	43.6	F2	ug/L		105	67 - 118	31	20
Benzo[a]anthracene	<1.1	F2	41.3	46.5	F2	ug/L		112	70 - 126	31	20
Benzo[a]pyrene	<1.1	F2	41.3	48.4	F2	ug/L		117	70 - 135	31	20
Benzo[b]fluoranthene	<1.1	F2	41.3	47.2	F2	ug/L		114	69 - 136	29	20
Benzo[g,h,i]perylene	<5.3	F1 F2	41.3	64.8	F1 F2	ug/L		157	70 - 135	36	20
Benzo[k]fluoranthene	<1.1	F2	41.3	47.3	F2	ug/L		114	70 - 133	30	20
Chrysene	<1.1	F2	41.3	48.4	F2	ug/L		117	68 - 129	32	20
Dibenz(a,h)anthracene	<1.6	F1 F2	41.3	58.5	F1 F2	ug/L		141	70 - 134	33	20
Fluoranthene	<5.3	F2	41.3	43.0	F2	ug/L		104	68 - 126	33	20
Indeno[1,2,3-cd]pyrene	<1.1	F1 F2	41.3	60.8	F1 F2	ug/L		147	65 - 133	35	20
Naphthalene	<5.3	F2	41.3	38.3	F2	ug/L		93	36 - 110	31	20
Phenanthrene	<5.3	F2	41.3	45.5	F2	ug/L		110	65 - 120	32	20
Pyrene	<5.3	F1 F2	41.3	54.0	F1 F2	ug/L		131	70 - 126	31	20
2-Methylnaphthalene	12	F2	41.3	51.0	F2	ug/L		93	34 - 110	22	20
Fluorene	<5.3	F2	41.3	44.7	F2	ug/L		108	53 - 120	32	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*
2-Fluorobiphenyl	*77*		*34 - 110*
Terphenyl-d14 (Surr)	*107*		*40 - 145*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-854946/1-A
Matrix: Solid
Analysis Batch: 855506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 854946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50		mg/Kg		02/25/26 08:39	02/28/26 07:56	1
Arsenic	<1.0		1.0		mg/Kg		02/25/26 08:39	02/28/26 07:56	1

Lab Sample ID: LCS 500-854946/2-A
Matrix: Solid
Analysis Batch: 855506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 854946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	10.0	9.79		mg/Kg		98	80 - 120
Arsenic	10.0	9.32		mg/Kg		93	80 - 120

Lab Sample ID: MB 500-855043/1-A
Matrix: Water
Analysis Batch: 855506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 855043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	<5.0		5.0		ug/L		02/25/26 13:51	02/28/26 06:55	1
Arsenic, Dissolved	<10		10		ug/L		02/25/26 13:51	02/28/26 06:55	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-855043/2-A
Matrix: Water
Analysis Batch: 855506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 855043

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead, Dissolved			100	94.9		ug/L		95	80 - 120		
Arsenic, Dissolved			100	90.0		ug/L		90	80 - 120		

Lab Sample ID: 500-282251-7 MS
Matrix: Water
Analysis Batch: 855506

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 855043

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead, Dissolved	<5.0		100	93.2		ug/L		93	75 - 125		
Arsenic, Dissolved	<10		100	101		ug/L		92	75 - 125		

Lab Sample ID: 500-282251-7 MSD
Matrix: Water
Analysis Batch: 855506

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 855043

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead, Dissolved	<5.0		100	93.8		ug/L		94	75 - 125	1	20
Arsenic, Dissolved	<10		100	101		ug/L		93	75 - 125	0	20

Lab Sample ID: 500-282251-7 DU
Matrix: Water
Analysis Batch: 855506

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 855043

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead, Dissolved	<5.0			<5.0		ug/L				NC	20
Arsenic, Dissolved	<10			<10		ug/L				NC	20

Lab Chronicle

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-1 (10'-12')
Date Collected: 02/23/26 14:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Client Sample ID: VB-1 (10'-12')
Date Collected: 02/23/26 14:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-1
Matrix: Solid
Percent Solids: 56.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855621	OP	EET CHI	02/24/26 17:26
Total/NA	Analysis	8260D		1	855652	W1T	EET CHI	03/02/26 19:41
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 01:03
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 08:40

Client Sample ID: VB-2 (10'-12')
Date Collected: 02/23/26 14:05
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Client Sample ID: VB-2 (10'-12')
Date Collected: 02/23/26 14:05
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-2
Matrix: Solid
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855239	OP	EET CHI	02/23/26 14:05
Total/NA	Analysis	8260D		500	855772	MM	EET CHI	03/03/26 14:13
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 01:28
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 08:45

Client Sample ID: VB-3 (10'-12')
Date Collected: 02/23/26 14:10
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Lab Chronicle

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: VB-3 (10'-12')
Date Collected: 02/23/26 14:10
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-3
Matrix: Solid
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855239	OP	EET CHI	02/23/26 14:10
Total/NA	Analysis	8260D		50	855772	MM	EET CHI	03/03/26 14:59
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 01:52
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 08:49

Client Sample ID: VB-4 (10'-12')
Date Collected: 02/23/26 14:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Client Sample ID: VB-4 (10'-12')
Date Collected: 02/23/26 14:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-4
Matrix: Solid
Percent Solids: 62.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855621	OP	EET CHI	02/24/26 17:26
Total/NA	Analysis	8260D		1	855652	W1T	EET CHI	03/02/26 20:05
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 02:17
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 08:53
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		2	855774	S1Z	EET CHI	03/02/26 20:08

Client Sample ID: VB-5 (6'-8')
Date Collected: 02/23/26 14:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Client Sample ID: VB-5 (6'-8')
Date Collected: 02/23/26 14:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-5
Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855621	OP	EET CHI	02/24/26 17:26
Total/NA	Analysis	8260D		1	855652	W1T	EET CHI	03/02/26 20:29
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 02:42
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 08:58

Lab Chronicle

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-1
Date Collected: 02/23/26 15:15
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	855771	MM	EET CHI	03/03/26 16:07
Total/NA	Prep	3510C			855477	LG	EET CHI	02/27/26 15:17
Total/NA	Analysis	8270E		1	855595	BC	EET CHI	03/02/26 15:28
Dissolved	Prep	3010A			855043	MS	EET CHI	02/25/26 13:51 - 02/25/26 19:51 [1]
Dissolved	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 07:04

Client Sample ID: MW-3
Date Collected: 02/23/26 15:40
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	855771	MM	EET CHI	03/03/26 16:29
Total/NA	Analysis	8260D	DL	20	855771	MM	EET CHI	03/03/26 16:52
Total/NA	Prep	3510C			855477	LG	EET CHI	02/27/26 15:17
Total/NA	Analysis	8270E		5	855595	BC	EET CHI	03/02/26 19:27
Dissolved	Prep	3010A			855043	MS	EET CHI	02/25/26 13:51 - 02/25/26 19:51 [1]
Dissolved	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 07:09

Client Sample ID: MW-2
Date Collected: 02/23/26 16:20
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	855771	MM	EET CHI	03/03/26 17:15
Total/NA	Prep	3510C			855477	LG	EET CHI	02/27/26 15:17
Total/NA	Analysis	8270E		1	855595	BC	EET CHI	03/02/26 15:50
Dissolved	Prep	3010A			855043	MS	EET CHI	02/25/26 13:51 - 02/25/26 19:51 [1]
Dissolved	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 07:40

Client Sample ID: MW-4
Date Collected: 02/23/26 16:35
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	855771	MM	EET CHI	03/03/26 18:00
Total/NA	Prep	3510C			855477	LG	EET CHI	02/27/26 15:17
Total/NA	Analysis	8270E		1	855595	BC	EET CHI	03/02/26 16:11
Dissolved	Prep	3010A			855043	MS	EET CHI	02/25/26 13:51 - 02/25/26 19:51 [1]
Dissolved	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 07:45

Lab Chronicle

Client: VET Environmental Engineering LLC
Project/Site: 25-183 College Square

Job ID: 500-282251-1

Client Sample ID: MW-DUP-1
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	855771	MM	EET CHI	03/03/26 18:44
Total/NA	Prep	3510C			854834	LG	EET CHI	02/24/26 15:12
Total/NA	Analysis	8270E		1	854927	H7CM	EET CHI	02/25/26 17:08
Dissolved	Prep	3010A			855043	MS	EET CHI	02/25/26 13:51 - 02/25/26 19:51 [1]
Dissolved	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 07:50

Client Sample ID: Trip Blank
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	855771	MM	EET CHI	03/03/26 19:07

Client Sample ID: VB-DUP-1
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	855022	MF	EET CHI	02/25/26 12:39

Client Sample ID: VB-DUP-1
Date Collected: 02/23/26 00:00
Date Received: 02/24/26 09:20

Lab Sample ID: 500-282251-12
Matrix: Solid
Percent Solids: 61.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			855239	OP	EET CHI	02/23/26 00:00
Total/NA	Analysis	8260D		50	855772	MM	EET CHI	03/03/26 15:44
Total/NA	Prep	3546			855134	EK	EET CHI	02/26/26 08:31
Total/NA	Analysis	8270E		1	855224	H7CM	EET CHI	02/27/26 03:06
Total/NA	Prep	3050B			854946	BDE	EET CHI	02/25/26 08:39 - 02/25/26 14:39 [1]
Total/NA	Analysis	6010D		1	855506	S1Z	EET CHI	02/28/26 09:02

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: VET Environmental Engineering LLC
Job ID: 500-282251-1
Project/Site: 25-183 College Square

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-26
Kentucky (UST)	State	108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-26
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	03-03-26
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25 *
South Carolina	State	77001	05-31-26
USDA	US Federal Programs	525-25-237-16455	08-25-28
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Address. College Square

Chain of Custody Record

670195

eurofins | Environment Testing America

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: S Hamilton	Site Contact: Sam	Date: 2/23/26	COC No.
Company Name: VETENV Inc	Tel/Email: 812 372 2638	Lab Contact: R. Kight	Carrier: FedEx	1 of 1 COCs
Address: 7335 W. Fountain Dr	Analysis Turnaround Time			Sampler:
City/State/Zip: Boise ID 83704	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 812 822 0400	TAT if different from Below			Walk-in Client:
Fax: —	☐ 2 weeks			Lab Sampling:
Project Name: 25-193 College Square	☐ 1 week Standard			Job / SDG No.
Site:	☐ 2 days			500-282251
PO #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs	PAHs	Lead, Arsenic	Sample Specific Notes.
1	VB-1 (10'-12')	2/23/26	1400	G	S	4			X	X	X	
2	VB-2 (10'-12')	2/23/26	1405	G	S	4			X	X	X	
3	VB-3 (10'-12')	2/23/26	1410	G	S	4			X	X	X	
4	VB-4 (10'-12')	2/23/26	1415	G	S	4			X	X	X	
5	VB-5 (6'-8')	2/23/26	1420	G	S	4			X	X	X	
6	MW-1	2/23/26	1515	G	W	6			X	X	X	Metals-filtered
7	MW-3	2/23/26	1510	G	W	6	X	X	X	X	X	Metals-filtered
8	MW-2	2/23/26	1620	G	W	6			X	X	X	Metals-filtered
9	MW-4	2/23/26	1635	G	W	6			X	X	X	Metals-filtered
10	MW-DUP-1	2/23/26	—	G	W	6			X	X	X	Metals-filtered
11	Trip Blank	2/23/26	—	G	W	2			X			
12	VB-DUP-1	2/23/26	—	G	S	4			X	X	X	

Preservation Used. 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments.
LVL IV QA/QC; Insufficient volume for 2 Amber glass 29→24 250mL bottles 16→16 on MS/MSD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C): Obs'd. ____ Corr'd: ____	Therm ID No.: ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
S Hamilton, VETENV	VETENV	2/23/26 1800	FedEx	FedEx	2/23/26 1800
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 2/24/26 0930

Login Sample Receipt Checklist

Client: VET Environmental Engineering LLC

Job Number: 500-282251-1

Login Number: 282251
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,-1.6 SAMPLES NOT FROZEN
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 8

ARTICLE 2. WATER QUALITY STANDARDS

Rule 1.	Water Quality Standards Applicable to All State Waters Except Waters of the State Within the Great Lakes System
Rule 1.1.	Waters Designated as Limited Use Under the CSO Wet Weather Limited Use Subcategory Designation
Rule 1.3.	Antidegradation Standards and Implementation Procedures
Rule 1.5.	Water Quality Standards Applicable to All State Waters Within the Great Lakes System
Rule 2.	Cyanides and Cyanogen Compounds; Drainage into Sewer Systems or Watercourses Prohibited; Exception
Rule 3.	Coal Mines; Restrictions on Acid Drainage and Refuse Deposits into State Waters
Rule 4.	Waste Treatment Control Facilities; Discharge into State Waters; Monthly Reports
Rule 5.	Phosphates; Permits for Use by Manufacturers and Processors; Detergents
Rule 6.	Spills of Oil and Other Objectionable Substances; Reporting, Containment and Cleanup (Repealed)
Rule 6.1.	Spills; Reporting, Containment, and Response
Rule 7.	Lake Michigan and Contiguous Harbor Areas (Repealed)
Rule 8.	Grand Calumet River and Indiana Harbor Ship Canal (Repealed)
Rule 9.	Natural Spawning, Rearing or Imprinting Areas; Migration Routes for Salmonid Fishes (Repealed)
Rule 10.	Secondary Containment of Aboveground Storage Tanks Containing Hazardous Materials
Rule 11.	Ground Water Quality Standards

Rule 1. Water Quality Standards Applicable to All State Waters Except Waters of the State Within the Great Lakes System

327 IAC 2-1-1	Applicability of rule
327 IAC 2-1-1.5	Water quality goals
327 IAC 2-1-2	Maintenance of surface water quality standards (Repealed)
327 IAC 2-1-3	Surface water use designations; multiple uses
327 IAC 2-1-3.1	CSO wet weather limited use designation
327 IAC 2-1-4	Mixing zone guidelines
327 IAC 2-1-5	Exception to quality standards applicability
327 IAC 2-1-6	Minimum surface water quality criteria
327 IAC 2-1-7	Interim ground water quality standards (Repealed)
327 IAC 2-1-8	Methods of analysis
327 IAC 2-1-8.1	Calculation of criteria for toxic substances; general
327 IAC 2-1-8.2	Determination of acute aquatic criteria (AAC)
327 IAC 2-1-8.3	Determination of chronic aquatic criteria (CAC)
327 IAC 2-1-8.4	Determination of the terrestrial life cycle safe concentration (TLSC)
327 IAC 2-1-8.5	Determination of the human life cycle safe concentration (HLSC)
327 IAC 2-1-8.6	Determination of concentration providing an acceptable degree of protection to public health for cancer
327 IAC 2-1-8.7	Determination of bioconcentration factor
327 IAC 2-1-8.8	Variances from water quality standards; conditions
327 IAC 2-1-8.9	Site-specific modifications to criteria
327 IAC 2-1-9	Definitions
327 IAC 2-1-10	Proposals for limited use designation or outstanding state resource water classification
327 IAC 2-1-11	Limited use and outstanding state resource waters
327 IAC 2-1-11.5	CSO wet weather limited use; designated waters (Repealed)
327 IAC 2-1-12	Incorporation by reference (Repealed)
327 IAC 2-1-13	Development of site-specific aquatic life criteria using the recalculation procedure

327 IAC 2-1-1 Applicability of rule

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 1. The water quality standards established by this rule shall apply to all waters of the state except waters of the state within the Great Lakes system regulated under 327 IAC 2-1.5. *(Water Pollution Control Division; 327 IAC 2-1-1; filed Sep 24, 1987, 3:00 p.m.: 11 IR 579; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1018; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1347)*

327 IAC 2-1-1.5 Water quality goals

Authority: IC 13-14-8; IC 13-18-4
Affected: IC 13-30-2-1

Sec. 1.5. The goal of the state is to restore and maintain the chemical, physical, and biological integrity of the waters of the state. In furtherance of this primary goal:

(1) it is the public policy of the state that the discharge of toxic substances in toxic amounts be prohibited; and

(2) it is the public policy of the state that the discharge of persistent and bioconcentrating toxic substances be reduced or eliminated.

(Water Pollution Control Division; 327 IAC 2-1-1.5; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1018)

327 IAC 2-1-2 Maintenance of surface water quality standards *(Repealed)*

Sec. 2. *(Repealed by Water Pollution Control Division; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)*

327 IAC 2-1-3 Surface water use designations; multiple uses

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 3. (a) The following water uses are designated by the environmental rules board:

(1) Except as provided in subsection (c), surface waters of the state are designated for full body contact recreation as provided in section 6(d) of this rule.

(2) All waters, except as described in subdivision (5), will be capable of supporting:

(A) a well-balanced, warm water aquatic community; and

(B) where natural temperatures will permit, put-and-take trout fishing.

All waters capable of supporting the natural reproduction of trout as of February 17, 1977, shall be so maintained.

(3) All waters that are used for public or industrial water supply must meet the standards for those uses at the points where the water is withdrawn. This use designation and its corresponding water quality standards are not to be construed as imposing a user restriction on those exercising or desiring to exercise the use.

(4) All waters that are used for agricultural purposes must, as a minimum, meet the standards established in section 6(a) of this rule.

(5) All waters in which naturally poor physical characteristics (including lack of sufficient flow), naturally poor chemical quality, or irreversible man-induced conditions, which came into existence before January 1, 1983, and having been established by use attainability analysis, public comment period, and hearing:

(A) may qualify to be classified for limited use; and

(B) must be evaluated for restoration and upgrading at each triennial review of this rule.

Specific waters of the state designated for limited use are listed in section 11(a) of this rule.

(b) Where multiple uses have been designated for a body of water, the most protective of all simultaneously applicable standards will apply.

(c) A CSO wet weather limited use designation is established as a subcategory of the recreational use designation established under subsection (a). This subcategory shall be applied in accordance with section 3.1 of this rule. *(Water Pollution Control Division;*

327 IAC 2-1-3; filed Sep 24, 1987, 3:00 p.m.: 11 IR 580; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1019; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1348; filed Sep 6, 2007, 12:25 p.m.: 20071003-IR-327050218FRA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)

327 IAC 2-1-3.1 CSO wet weather limited use designation

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3-2.5
Affected: IC 13-14-2-6; IC 13-14-9-14; IC 13-18-4

Sec. 3.1. (a) The combined sewer overflow (CSO) wet weather limited use subcategory established under section 3 of this rule applies only to waters receiving wet weather discharges from combined sewer overflows that are listed in 327 IAC 2-1.1.

(b) To receive consideration for the CSO wet weather limited use subcategory designation, a CSO community must do the following:

(1) Perform a use attainability analysis (UAA) to change the recreational designated use of the waterbody or waterbodies receiving the wet weather discharges from combined sewer overflows.

(2) Submit the UAA to the department for approval.

(3) Submit a long term control plan (LTCP) consistent with the application of the CSO wet weather limited use subcategory to the department for approval.

(c) The LTCP submitted to the department must:

(1) specify the water quality-based requirements that will apply to combined sewer overflows under subsection (h) if the waterbody or waterbodies receiving the wet weather overflows are redesignated to the CSO wet weather limited use subcategory; and

(2) meet the requirements of Section 402(q) of the Clean Water Act*.

(d) The department shall:

(1) review the UAA concurrently with the LTCP if they are submitted concurrently; and

(2) use the LTCP to satisfy the requirements of the UAA, to the extent possible.

(e) Upon approval of a UAA, the department shall begin a rulemaking under IC 13-14-9-14 to amend the designated use to a CSO wet weather limited use designation. The rulemaking may commence before full implementation of the approved LTCP.

(f) Upon completion of the rulemaking required under subsection (e), the department shall submit the amended recreational use designation and the supporting UAA to the U.S. EPA for approval.

(g) Upon U.S. EPA's approval of the use designation change for the waterbody or waterbodies receiving wet weather overflows from a CSO community, the department shall modify the NPDES permit holder's permit to incorporate the CSO wet weather limited use designation and the approved LTCP into the permit.

(h) The water quality-based requirements for the CSO wet weather limited use designation must:

(1) be determined by the approved LTCP for the combined sewer system;

(2) be consistent with the Clean Water Act; and

(3) remain in effect during the time and to the physical extent that the recreational use designation that applied to the waters immediately before the application to the waters of the CSO wet weather limited use subcategory is not attained but for not more than four (4) days after the date the overflow discharge ends.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1-3.1; filed Sep 6, 2007, 12:25 p.m.: 20071003-IR-327050218FRA; filed Apr 27, 2020, 8:57 a.m.: 20200506-IR-327190510FRA, eff Apr 27, 2020, see Executive Order 20-15, posted at 20200422-IR-GOV200234EOA; filed Feb 21, 2022, 10:07 a.m.: 20220323-IR-327210164FRA)*

327 IAC 2-1-4 Mixing zone guidelines

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-18-4

Sec. 4. (a) All surface water quality standards in this rule, except those provided in section 6(a)(1) of this rule, are to be

applied at a point outside of the mixing zone to allow for a reasonable admixture of waste effluents with the receiving waters.

(b) Due to varying physical, chemical, and biological conditions, no universal mixing zone may be prescribed. The commissioner shall determine the mixing zone upon application by the discharger. The applicability of the guideline set forth in subsection (c) will be on a case-by-case basis and any application to the commissioner shall contain the following information:

(1) The dilution ratio.

(2) The physical, chemical, and biological characteristics of the receiving body of water.

(3) The physical, chemical, and biological characteristics of the waste effluent.

(4) The present and anticipated uses of the receiving body of water.

(5) The measured or anticipated effect of the discharge on the quality of the receiving body of water.

(6) The existence of and impact upon any spawning or nursery areas of any indigenous aquatic species.

(7) Any obstruction of migratory routes of any indigenous aquatic species.

(8) The synergistic effects of overlapping mixing zones or the aggregate effects of adjacent mixing zones.

(c) The mixing zone should be limited to no more than one-fourth (1/4) (twenty-five percent (25%)) of the cross-sectional area and/or volume of flow of the stream, leaving at least three-fourths (3/4) (seventy-five percent (75%)) free as a zone of passage for aquatic biota nor should it extend over one-half (1/2) (fifty percent (50%)) of the width of the stream.

(d) Based on consideration of aquatic life or human health effects, the commissioner may deny a mixing zone for a discharge or certain substances in a discharge.

(e) Notwithstanding other subsections of this section, no mixing zone shall be allowed for discharges to lakes except for those consisting entirely of noncontact cooling water which meet the requirements set forth in Section 316(a) of the Federal Water Pollution Control Act of 1972. *(Water Pollution Control Division; 327 IAC 2-1-4; filed Sep 24, 1987, 3:00 p.m.: 11 IR 580; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1020)*

327 IAC 2-1-5 Exception to quality standards applicability

Authority: IC 13-14-9; IC 13-18-3-2
Affected: IC 13-14-8

Sec. 5. All surface water quality standards in section 6 of this rule, except those provided in section 6(a)(1) of this rule, will cease to be applicable when the stream flows are less than the average minimum seven (7) consecutive day low flow that occurs once in ten (10) years. This determination will be made using Low-Flow Characteristics of Indiana Streams, 1996, United States Department of the Interior, Geological Survey, or any additional information compiled on a comparable basis. *(Water Pollution Control Division; 327 IAC 2-1-5; filed Sep 24, 1987, 3:00 p.m.: 11 IR 581; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1020; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2047)*

327 IAC 2-1-6 Minimum surface water quality criteria

Authority: IC 13-14-8-2; IC 13-14-8-3; IC 13-18-4-3
Affected: IC 13-11-2-258; IC 13-18-4; IC 13-30-2-1; IC 14-22-9

Sec. 6. (a) The following are minimum surface water quality conditions:

(1) All surface waters, including waters within a mixing zone, must be free from substances, materials, floating debris, oil, or scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:

(A) Settle to form putrescent or otherwise objectionable deposits.

(B) Occur in amounts sufficient to be unsightly or deleterious.

(C) Produce:

(i) color;

(ii) visible oil sheen;

(iii) odor; or

(iv) other conditions;

to an extent that creates a nuisance.

(D) Occur in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to

a degree as to:

(i) create a nuisance;

(ii) be unsightly; or

(iii) otherwise impair the designated uses of the surface waters.

(E) Occur in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill, aquatic life, other animals, plants, or humans. To ensure protection of aquatic life, concentrations of toxic substances must not exceed the final acute value (FAV = 2 (AAC)) in the undiluted discharge or the acute aquatic criterion (AAC) outside the zone of initial dilution or, if applicable, the zone of discharge-induced mixing. The following apply where applicable:

(i) For certain substances, an AAC is specified in:

(AA) subdivision (3), Table 6-1, which incorporates subdivision (5), Table 6-2; and

(BB) subdivision (6).

(ii) An AAC may be calculated by the commissioner using the procedures in section 8.2 of this rule for substances for which an AAC is not specified in:

(AA) subdivision (3), Table 6-1, which incorporates subdivision (5), Table 6-2; or

(BB) subdivision (6).

(iii) The AAC determined under item (i) or (ii) may be modified on a site-specific basis to reflect local conditions in accordance with section 8.9 of this rule.

(F) Clause (E) does not apply to the chemical control of plants and animals when that control is performed in compliance with approval conditions specified by the Indiana department of natural resources as provided by IC 14-22-9.

(2) All surface waters outside of mixing zones must be free of substances in concentrations that, on the basis of available scientific data, are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants. The requirements to ensure protection against the adverse effects identified in this subdivision are as follows:

(A) A toxic substance or pollutant must not be present in surface waters outside of mixing zones in concentrations that exceed the most stringent of the following continuous criterion concentrations (CCCs):

(i) A chronic aquatic criterion (CAC) to protect aquatic life from chronic toxic effects.

(ii) A terrestrial life cycle safe concentration (TLSC) to protect terrestrial organisms from toxic effects that may result from the consumption of aquatic organisms or water from the waterbody.

(iii) A human life cycle safe concentration (HLSC) to protect human health from toxic effects that may result from the consumption of aquatic organisms or drinking water from the waterbody.

(iv) For carcinogenic substances, a criterion to protect human health from unacceptable cancer risk of greater than one (1) additional occurrence of cancer per one hundred thousand (100,000) population.

(B) For certain substances, one (1) or more of the CCCs identified in clause (A) are specified in:

(i) subdivision (3), Table 6-1, which incorporates subdivision (5), Table 6-2;

(ii) subdivision (4)(A), Table 6-1a;

(iii) subdivision (4)(B), Table 6-1b;

(iv) subdivision (6); and

(v) subdivision (7), Table 6-4.

(C) Criterion or criteria may be calculated by the commissioner using the corresponding procedures prescribed by sections 8.3 through 8.6 of this rule for substances for which a CCC identified in clause (A) is not specified in:

(i) subdivision (3), Table 6-1, which incorporates subdivision (5), Table 6-2;

(ii) subdivision (4)(A), Table 6-1a;

(iii) subdivision (4)(B), Table 6-1b;

(iv) subdivision (6); or

(v) subdivision (7), Table 6-4.

(D) A CCC determined under clause (B)(i), (B)(iv), (B)(v), or (C) may be modified on a site-specific basis to reflect local conditions in accordance with section 8.9 of this rule.

(E) The CAC and TLSC for a substance apply in all surface waters outside of a mixing zone for a discharge of that substance.

(F) In surface waters where a public water system intake is not present or is unaffected by the discharge of a substance, the HLSC and the carcinogenic criterion for that substance based on consumption of organisms from the waterbody and only incidental ingestion of water apply to all surface waters outside of the mixing zone for a discharge of that substance.

(G) In surface waters where a public water system intake is present, the HLSC and the carcinogenic criterion for a substance based on consumption of organisms and potable water from the waterbody apply at the point of the public water system intake.

(3) Surface water quality criteria for the protection of aquatic life for specific substances are as follows:

Table 6-1

Surface Water Quality Criteria for the Protection of Aquatic Life

CAS Number	Substances	Acute Aquatic Criteria (AAC) (Maximum) (µg/l)	AAC Conversion Factors (CF)	Chronic Aquatic Criteria (CAC) (4-Day Average) (µg/l)	CAC Conversion Factors (CF)
	Metals				
7440382	Arsenic[1]	WER(340)(CF)	1.000	WER(150)(CF)	1.000
7440439	Cadmium[1][2]	WER ($e^{(0.9789[lnH]-3.866)}$)(CF)	1.136672-[lnH]0.041838	WER ($e^{(0.7977[lnH]-3.909)}$) (CF)	1.101672-[lnH]0.041838
16065831	Chromium (III)[1][2]	WER ($e^{(0.819[lnH]+3.7256)}$)(CF)	0.316	WER ($e^{(0.819[lnH]+0.6848)}$)(CF)	0.860
18540299	Chromium (VI)[1]	WER(16)(CF)	0.982	WER(11)(CF)	0.962
7440508	Copper[1][2]	WER ($e^{(0.9422[lnH]-1.464)}$)(CF)	0.960	WER ($e^{(0.8545[lnH]-1.465)}$) (CF)	0.960
7439921	Lead[1][2]	WER ($e^{(1.273[lnH]-1.460)}$)(CF)	1.46203-[lnH]0.145712	WER ($e^{(1.273[lnH]-4.705)}$) (CF)	1.46203-[lnH]0.145712
7439976	Mercury[3][4]	2.4	NA	0.012	NA
7440020	Nickel[1][2]	WER ($e^{(0.846[lnH]+2.255)}$)(CF)	0.998	WER ($e^{(0.846[lnH]+0.0584)}$)(CF)	0.997
7440224	Silver[1][2][5]	WER ($e^{(1.72[lnH]-6.59)}$/2)(CF)	0.85		
7440666	Zinc[1][2]	WER ($e^{(0.8473[lnH]+0.884)}$)(CF)	0.978	WER ($e^{(0.8473[lnH]+0.884)}$) (CF)	0.986
	Organics				
309002	Aldrin[4][5]	1.5	NA		NA
57749	Chlordane[4][5]	1.2	NA	0.0043	NA
2921882	Chlorpyrifos	0.083	NA	0.041	NA
50293	DDT[4][5]	0.55	NA	0.0010	NA
60571	Dieldrin[4][5]	1.3	NA	0.0019	NA
	Endosulfan[5]	0.11	NA	0.056	NA
72208	Endrin[4][5]	0.09	NA	0.0023	NA
76448	Heptachlor[4][5]	0.26	NA	0.0038	NA
58899	Gamma HCH (Lindane)[4][5]	1.0	NA	0.080	NA
56382	Parathion	0.065	NA	0.013	NA
87865	Pentachlorophenol	$e^{(1.005[pH]-4.830)}$	NA	$e^{(1.005[pH]-5.290)}$	NA
	Polychlorinated Biphenyls (PCBs)[4]		NA	0.014	NA
8001352	Toxaphene[4]	0.73	NA	0.0002	NA

	Other Substances					
7782505		Chlorine (Total Residual)	19	NA	11	NA
7782505		Chlorine (intermittent, total residual)[6]			200	NA
57125		Cyanide (free)	22	NA	5.2	NA
Selenium CAC are specified in subdivision (4).						
Chloride AAC and CAC are specified in subdivision (6).						

[1]Aquatic life criteria for these metals are expressed as a dissolved concentration and are calculated using the water-effect ratio (WER) and the specified conversion factor (CF). The AAC and CAC for a dissolved metal are calculated by multiplying the WER by the criterion value or formula, and then by the appropriate CF. A value of one (1) must be used for the WER unless an alternate value is established under section 8.9 of this rule. The dissolved AAC and CAC must be rounded to two (2) significant digits, except when the criteria are used as intermediate values in a calculation, such as in the calculation of water quality-based effluent limitations (WQBELs).

[2]The hardness values used in the equations for these criteria must not be greater than 400 mg/l as calcium carbonate ($CaCO_3$), and the criteria at a hardness of 400 mg/l as $CaCO_3$ are used for a water hardness above 400 mg/l as $CaCO_3$. The term "lnH" is the natural log of hardness.

[3]Aquatic life criteria for this metal are expressed as a total recoverable concentration.

[4]These substances are bioaccumulative chemicals of concern.

[5]The AAC for these substances is one-half (½) of the Final Acute Value (FAV) as calculated by procedures developed by U.S. EPA in 1980. This value would correspond to acute aquatic values calculated using procedures of the department or U.S. EPA procedures developed in 1985 in which the calculated FAV is divided by two (2) to reduce acute toxicity.

[6]To be considered an intermittent discharge, total residual chlorine must not be detected in the discharge for a period of more than forty (40) minutes in duration, and these time periods must be separated by at least five (5) hours.

(4) Surface water quality criterion for selenium must meet the following:

(A) The surface water quality criterion for selenium, except for waters where the department has made, and U.S. EPA has approved, a site-specific determination that the criterion in Table 6-1b are applicable, is as follows:

Table 6-1a

Surface Water Quality Aquatic Life Criterion for Selenium (CAS # 7782492)

Chronic Aquatic Criterion (CAC)				
Media Type	Fish Tissue[1]		Water Column[5][7]	
Criterion Element	Egg/Ovary[2]	Fish Whole-Body or Muscle[3]	Monthly Average Exposure	Intermittent Exposure[6]
Magnitude	15.1 mg/kg dw	8.5 mg/kg dw whole-body or 11.3 mg/kg dw muscle (skinless, boneless filet)	1.5 µg/l in lentic aquatic systems 3.1 µg/l in lotic aquatic systems	$WQC_{int} = \frac{WQC_{30\text{-}day} - C_{bkgrnd}(1-f_{int})}{f_{int}}$
Duration	Instantaneous measurement[4]	Instantaneous measurement[4]	Thirty (30) days	Number of days per month with an elevated concentration
Frequency	Not to be exceeded	Not to be exceeded	Not more than once in three (3) years on average	Not more than once in three (3) years on average

[1]Fish tissue elements are expressed as steady-state; the aquatic system should not be experiencing new or increasing inputs of selenium.

[2]Egg or ovary supersedes any whole-body, muscle, or water column element when fish egg or ovary concentrations are measured. Any proposal to sample egg or ovary fish tissue must be submitted to the department for review and approval prior to initiation of

sampling, and the department will evaluate all representative egg or ovary fish tissue data to determine compliance with this criterion element.

[3]Fish whole-body or muscle tissue supersedes the water column element when both fish tissue and water concentrations are measured. Any proposal to sample fish whole-body or muscle tissue must be submitted to the department for review and approval prior to initiation of sampling, and the department will evaluate all representative fish whole-body or muscle tissue data to determine compliance with this criterion element.

[4]Fish tissue data provide instantaneous point measurements that reflect integrative accumulation of selenium over time and space in fish populations at a given site.

[5]Water column values are the applicable criterion element in the absence of steady-state condition fish tissue data and for fishless waters. Water column values are based on dissolved total selenium in water and are derived from fish tissue values via bioaccumulation modeling. Instead of the requirements in 327 IAC 5-2-11.1(b)(2), the allowable mixing zone dilution will be determined by applying the guideline in 327 IAC 2-1-4 to the thirty (30) day, ten (10) year ($Q_{30,10}$) low flow of the receiving stream for the chronic aquatic criterion (CAC) water column criterion element applicable to lotic aquatic systems, in the absence of site-specific mixing zone data.

[6]Intermittent Exposure Equation variables mean the following:

WQC_{int} is the water column intermittent element.

$WQC_{30\text{-day}}$ is the water column monthly element for either lentic or lotic waters.

C_{bkgrnd} is the average background selenium concentration.

f_{int} is the fraction of any 30-day period during which elevated selenium concentrations occur, with f_{int} assigned a value ≥ 0.033 (corresponding to one (1) day).

[7]The water column criterion element may be modified on a site-specific basis in accordance with clause (C).

(B) The surface water quality criterion for selenium, where the department has made, and U.S. EPA has approved, a site-specific determination that fishes in the Order Acipenseriformes (Order includes sturgeon and paddlefish) do not occur at the site, is as follows:

Table 6-1b
Site-specific Surface Water Quality Aquatic Life Criterion for Selenium (CAS # 7782492)
in Non-Acipenseriformes (No Sturgeon or Paddlefish) Waters[1]

Chronic Aquatic Criterion (CAC)				
Media Type	Fish Tissue[2]		Water Column[6][8]	
Criterion Element	Egg/Ovary[3]	Fish Whole-Body or Muscle[4]	Monthly Average Exposure	Intermittent Exposure[7]
Magnitude	19.0 mg/kg dw	9.5 mg/kg dw whole-body or 13.1 mg/kg dw muscle (skinless, boneless filet)	2.7 µg/l in lentic aquatic systems 5.5 µg/l in lotic aquatic systems	$WQC_{int} = \frac{WQC_{30\text{-day}} - C_{bkgrnd}(1-f_{int})}{f_{int}}$
Duration	Instantaneous measurement[5]	Instantaneous measurement[5]	Thirty (30) days	Number of days per month with an elevated concentration
Frequency	Not to be exceeded	Not to be exceeded	Not more than once in three (3) years on average	Not more than once in three (3) years on average

[1]This criterion is applicable to surface waters for which the department has made, and U.S. EPA has approved, a site-specific determination that fishes in the Order Acipenseriformes do not occur at the site. In making this determination, the department must comply with the procedures in clause (D).

[2]Fish tissue elements are expressed as steady-state; the aquatic system should not be experiencing new or increasing inputs of selenium.

[3]Egg or ovary supersedes any whole-body, muscle, or water column element when fish egg or ovary concentrations are measured. Any proposal to sample egg or ovary fish tissue must be submitted to the department for review and approval prior to initiation of

sampling, and the department will evaluate all representative egg or ovary fish tissue data to determine compliance with this criterion element.

[4]Fish whole-body or muscle tissue supersedes the water column element when both fish tissue and water concentrations are measured. Any proposal to sample fish whole-body or muscle tissue must be submitted to the department for review and approval prior to initiation of sampling, and the department will evaluate all representative fish whole-body or muscle tissue data to determine compliance with this criterion element.

[5]Fish tissue data provide instantaneous point measurements that reflect integrative accumulation of selenium over time and space in fish populations at a given site.

[6]Water column values are the applicable criterion element in the absence of steady-state condition fish tissue data and for fishless waters. Water column values are based on dissolved total selenium in water and are derived from fish tissue values via bioaccumulation modeling. Instead of the requirements in 327 IAC 5-2-11.1(b)(2), the allowable mixing zone dilution will be determined by applying the guideline in 327 IAC 2-1-4 to the thirty (30) day, ten (10) year ($Q_{30,10}$) low flow of the receiving stream for the chronic aquatic criterion (CAC) water column criterion element applicable to lotic aquatic systems, in the absence of site-specific mixing zone data.

[7]Intermittent Exposure Equation variables mean the following:

WQC_{int} is the water column intermittent element.

$WQC_{30\text{-}day}$ is the water column monthly element for either lentic or lotic waters.

C_{bkgrnd} is the average background selenium concentration.

f_{int} is the fraction of any 30-day period during which elevated selenium concentrations occur, with f_{int} assigned a value ≥ 0.033 (corresponding to one (1) day).

[8]The water column criterion element may be modified on a site-specific basis in accordance with clause (C).

(C) Modification of the selenium water column criterion element must be achieved according to the following:

(i) Site-specific water column criterion elements must be derived using either the empirical bioaccumulation factor (BAF) or mechanistic modeling method provided in Aquatic Life Ambient Water Quality Criterion for Selenium – Freshwater, EPA-822-R-16-006, Appendix K: Translation of a Selenium Fish Tissue Criterion Element to a Site-Specific Water Column Value (June 2016)*.

(ii) Any proposal to derive a site-specific water column criterion element must be submitted to the department for review and approval of the methodology and sampling plan prior to initiation of sampling. The department shall evaluate and approve the applicability of and use of all representative data used to derive a site-specific water column criterion element.

(iii) Any proposal to derive a site-specific water column criterion element must be protective of downstream designated uses for aquatic life and human health.

(iv) Upon receipt of an application for a site-specific water column criterion element, the department shall do the following:

(AA) Publish on the department's website all pertinent information about the proposed site-specific modification.

(BB) Provide notice and request comment on the application.

(v) Upon approval of a site-specific water column criterion element, the department shall do the following:

(AA) Publish a notice in the Indiana Register.

(BB) Place on the department's website all pertinent information about the approved site-specific modification.

(CC) Submit the site-specific modification to U.S. EPA for approval.

(DD) If approved by U.S. EPA, incorporate the site-specific modification into the water quality standards during the next revision of the water quality standards.

(vi) Site-specific modifications of this criterion must not be incorporated into a final NPDES permit or used for other Clean Water Act purposes until approved by U.S. EPA.

(D) Upon receipt of an application for a site-specific determination that fishes in the Order Acipenseriformes (Order includes sturgeon and paddlefish) do not occur at the site, the department shall do the following:

(i) Review available species occurrence and distribution information and do one (1) of the following:

(AA) Make a tentative determination that fishes in the Order Acipenseriformes do not occur at the

site.

(BB) Make a determination that fishes in the Order Acipenseriformes occur at the site and deny the application.

(ii) Upon a tentative determination that fishes in the Order Acipenseriformes do not occur at the site, the department shall do the following:

(AA) Publish on the department's website all pertinent information about the proposed site-specific determination.

(BB) Provide notice and request comment on the tentative decision.

(iii) Upon a final determination that fishes in the Order Acipenseriformes do not occur at the site, the department shall do the following:

(AA) Publish a notice in the Indiana Register.

(BB) Place on the department's website all pertinent information about the approved site-specific modification.

(CC) Submit the site-specific modification to U.S. EPA for approval.

(DD) If approved by U.S. EPA, incorporate the site-specific modification into the water quality standards during the next revision of the water quality standards.

(iv) Site-specific modifications of this criterion must not be incorporated into a final NPDES permit or used for other Clean Water Act purposes until approved by U.S. EPA.

(5) The dissolved AAC and CAC for certain metals at selected hardness values calculated from the equations and conversion factors in subdivision (3), Table 6-1, with a value of one (1) used for the WER are as follows:

Table 6-2

Metals Concentrations in Micrograms Per Liter; Hardness in Milligrams Per Liter $CaCO_{31}$

	Arsenic		Cadmium		Chromium (III)		Chromium (VI)		Copper	
Hardness	AAC	CAC	AAC	CAC	AAC	CAC	AAC	CAC	AAC	CAC
50	340	150	0.94	0.43	320	42	16	11	8.9	6.3
100	340	150	1.8	0.72	570	74	16	11	17	11
150	340	150	2.6	0.97	790	100	16	11	25	16
200	340	150	3.4	1.2	1,000	130	16	11	33	21
250	340	150	4.2	1.4	1200	160	16	11	40	25
300	340	150	5.0	1.6	1,400	180	16	11	48	29
350	340	150	5.8	1.8	1,600	210	16	11	55	33
400	340	150	6.5	2.0	1,800	230	16	11	63	37

	Lead		Nickel		Silver		Zinc	
Hardness	AAC	CAC	AAC	CAC	AAC	CAC	AAC	CAC
50	30	1.2	260	29	0.49	–	65	66
100	65	2.5	470	52	1.6	–	120	120
150	100	3.9	660	73	3.2	–	170	170
200	140	5.3	840	93	5.3	–	210	210
250	170	6.7	1,000	110	7.8	–	250	260
300	210	8.1	1,200	130	11	–	300	300
350	240	9.5	1,400	150	14	–	340	340
400	280	11	1,500	170	17	–	380	380

[1] The dissolved metals criteria in this table have been rounded to two (2) significant digits in accordance with subdivision (3), Table 6-1. The equations and conversion factors in subdivision (3), Table 6-1 must be used instead of the criteria in this table when these criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(6) Surface water quality criteria for chloride for protection of aquatic life are as follows:

(A) The AAC for chloride as a function of hardness (in mg/l as $CaCO_3$) and sulfate (in mg/l) in surface waters is calculated using the following formula:

$$C = 287.8 \text{ (hardness)}^{0.205797} \text{ (sulfate)}^{-0.07452}$$

Where: C = chloride AAC (maximum) in mg/l.

(B) The CAC for chloride as a function of hardness (in mg/l as $CaCO_3$) and sulfate (in mg/l) in surface waters is calculated using the following formula:

$$C = 177.87 \text{ (hardness)}^{0.205797} \text{ (sulfate)}^{-0.07452}$$

Where: C = chloride CAC (4-day average) in mg/l.

(C) This clause applies to the AAC and CAC for chloride provided in this subdivision, as follows:

(i) Chloride criteria may only be established based on a sulfate concentration greater than the water quality criterion for sulfate, as established under subdivision (8), where the water quality criterion for sulfate has been modified on a site-specific basis in accordance with either the:

(AA) variance provisions under section 8.8 of this rule; or

(BB) site-specific criteria provisions under section 8.9 of this rule.

(ii) The AAC and CAC for chloride calculated from the equations in this subdivision must be rounded to the nearest whole numbers, except when the criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(D) The AAC for chloride in mg/l at selected concentrations of hardness (in mg/l as $CaCO_3$) and sulfate is as follows:

Table 6-3a[1]

	Hardness (mg/l)									
Sulfate (mg/l)	50	100	150	200	250	300	350	400	450	500
15	526	607	660	700	733	761	785	807	827	845
20	515	594	646	685	717	745	769	790	809	827
25	506	584	635	674	705	732	756	777	796	813
50	481	555	603	640	670	695	718	738	756	773
100	457	527	573	608	636	660	682	701	718	734
150	443	511	556	589	617	641	661	680	697	712
200	434	500	544	577	604	627	647	665	682	697
250	427	492	535	567	594	617	637	654	671	685
300	421	485	528	560	586	609	628	646	661	676
350	416	480	522	553	579	602	621	638	654	668
400	412	475	516	548	574	596	615	632	647	662
450	408	471	512	543	569	590	609	626	642	656
500	405	467	508	539	564	586	605	622	637	651

[1] The equation in clause (A) must be used instead of the criteria in this table when chloride criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(E) The CAC for chloride in mg/l at selected concentrations of hardness (in mg/l as $CaCO_3$) and sulfate is as follows:

Table 6-3b[1]

	Hardness (mg/l)									
Sulfate (mg/l)	50	100	150	200	250	300	350	400	450	500
15	325	375	408	433	453	470	485	499	511	522
20	318	367	399	423	443	460	475	488	500	511
25	313	361	392	416	436	453	467	480	492	503

50	297	343	373	395	414	430	444	456	467	477
100	282	326	354	375	393	408	421	433	444	453
150	274	316	343	364	381	396	409	420	430	440
200	268	309	336	357	373	388	400	411	421	431
250	264	304	331	351	367	381	394	404	414	423
300	260	300	326	346	362	376	388	399	409	418
350	257	297	322	342	358	372	384	394	404	413
400	255	294	319	339	355	368	380	391	400	409
450	252	291	316	336	351	365	377	387	397	405
500	250	289	314	333	349	362	374	384	394	402

[1] The equation in clause (B) must be used instead of the criteria in this table when chloride criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(7) Surface water quality criteria for protection of human health for specific substances are as follows:

Table 6-4

Surface Water Quality Criteria for Protection of Human Health[1]

CAS Number	Substances	Continuous Criterion Concentrations	
		Outside of Mixing Zone (µg/l)	Point of Water Intake (µg/l)
	Metals (total recoverable)		
7440360	Antimony	640 (T)	5.6 (T)
	Arsenic III	0.175 (C)	0.022 (C)
7440393	Barium		1,000 (D)
7440508	Copper		1,300 (D)
7439976	Mercury[2]	0.15 (T)	0.14 (T)
7440020	Nickel	4,600 (T)	610 (T)
7782492	Selenium	4,200 (T)	170 (T)
7440280	Thallium	48 (T)	13 (T)
7440666	Zinc	26,000 (T)	7,400 (T)
	Organics		
107028	Acrolein	780 (T)	320 (T)
107131	Acrylonitrile	6.5 (C)	0.58 (C)
309002	Aldrin[2]	0.00079 (C)	0.00074 (C)
71432	Benzene	400 (C)	6.6 (C)
92875	Benzidine	0.0053 (C)	0.0012 (C)
56235	Carbon Tetrachloride	69.4 (C)	4.0 (C)
57749	Chlordane[2]	0.0048 (C)	0.0046 (C)
	Chlorinated Benzenes		
108907	Monochlorobenzene		488 (T)
95943	1,2,4,5-Tetrachlorobenzene[2]	48 (T)	38 (T)
608935	Pentachlorobenzene[2]	85 (T)	74 (T)
118741	Hexachlorobenzene[2]	0.0074 (C)	0.0072 (C)
	Chlorinated Ethanes		
107062	1,2-dichloroethane	2,430 (C)	9.4 (C)
71556	1,1,1-trichloroethane	1,030,000 (T)	18,400 (T)
79005	1,1,2-trichloroethane	418 (C)	6.0 (C)

79345		1,1,2,2-tetrachloroethane	107 (C)	1.7 (C)
67721		Hexachloroethane	87.4 (C)	19 (C)
	Chlorinated Phenols			
95954		2,4,5-trichlorophenol		2,600 (T)
88062		2,4,6-trichlorophenol	36 (C)	12 (C)
	Chloroalkyl Ethers			
		bis(2-chloroisopropyl) ether	4,360 (T)	34.7 (T)
542881		bis(chloromethyl) ether	0.018 (C)	0.000038 (C)
111444		bis(2-chloroethyl) ether	13.6 (C)	0.3 (C)
67663		Chloroform	157 (C)	1.9 (C)
50293		DDT[2]	0.00024 (C)	0.00024 (C)
		Dichlorobenzenes	2,600 (T)	400 (T)
		Dichlorobenzidine	0.2 (C)	0.1 (C)
75354		1,1-dichloroethylene	18.5 (C)	0.33 (C)
120832		2,4-dichlorophenol		3,090 (T)
		Dichloropropenes	14,100 (T)	87 (T)
60571		Dieldrin[2]	0.00076 (C)	0.00071 (C)
121142		2,4-dinitrotoluene	91 (C)	1.1 (C)
1746016		Dioxin (2,3,7,8-TCDD)[2]	0.0000001 (C)	0.0000001 (C)
122667		1,2-diphenylhydrazine	5.6 (C)	0.422 (C)
		Endosulfan	159 (T)	74 (T)
72208		Endrin[2]		1.0 (D)
100414		Ethylbenzene	3,280 (T)	1,400 (T)
206440		Fluoranthene	54 (T)	42 (T)
		Halomethanes	157 (C)	1.9 (C)
76448		Heptachlor[2]	0.0028 (C)	0.0028 (C)
87683		Hexachlorobutadiene[2]	500 (C)	4.47 (C)
		Hexachlorocyclohexane (HCH)		
319846		alpha HCH[2]	0.31 (C)	0.09 (C)
319857		beta HCH[2]	0.55 (C)	0.16 (C)
58899		gamma HCH (Lindane)[2]	0.63 (C)	0.19 (C)
608731		Technical HCH[2]	0.41 (C)	0.12 (C)
77474		Hexachlorocyclopentadiene		206 (T)
78591		Isophorone	520,000 (T)	5,200 (T)
98953		Nitrobenzene		19,800 (T)
	Nitrophenols			
534521		4,6-dinitro-o-cresol	765 (T)	13.4 (T)
25550587		Dinitrophenol	14,300 (T)	70 (T)
	Nitrosamines			
55185		N-nitrosodiethylamine	12.4 (C)	0.008 (C)
62759		N-nitrosodimethylamine	160 (C)	0.014 (C)
924163		N-nitrosodibutylamine	5.9 (C)	0.064 (C)
86306		N-nitrosodiphenylamine	161 (C)	49 (C)
930552		N-nitrosopyrrolidine	919 (C)	0.16 (C)
87865		Pentachlorophenol		1,000 (T)

108952		Phenol		3,500 (T)
	Phthalate Esters			
131113		Dimethyl phthalate	2,900,000 (T)	313,000 (T)
84662		Diethyl phthalate	1,800,000 (T)	350,000 (T)
84742		Dibutyl phthalate	154,000 (T)	34,000 (T)
117817		Di-2-ethylhexyl phthalate	50,000 (T)	15,000 (T)
		Polychlorinated Biphenyls (PCBs)[2]	0.00079 (C)	0.00079 (C)
		Carcinogenic Polynuclear Aromatic Hydrocarbons (PAHs)	0.31 (C)	0.028 (C)
127184		Tetrachloroethylene	88.5 (C)	8 (C)
108883		Toluene	424,000 (T)	14,300 (T)
8001352		Toxaphene[2]	0.0073 (C)	0.0071 (C)
79016		Trichloroethylene	807 (C)	27 (C)
75014		Vinyl Chloride	5,246 (C)	20 (C)
	Other Substances			
1332214		Asbestos (fibers/liter)		300,000 (C)
57125		Cyanide (Total)		200 (D)

[1]The human health criteria are thirty (30) day average criteria.

T-derived from threshold toxicity

C-derived from nonthreshold cancer risk

D-derived from drinking water standards, equal to or less than threshold toxicity

[2]This substance is a bioaccumulative chemical of concern.

(8) Surface water quality criteria for sulfate that must not be exceeded in surface waters outside of a mixing zone are as follows:

(A) The surface water quality criteria for sulfate in mg/l for the specified ranges of hardness (in mg/l as $CaCO_3$) or chloride (in mg/l), or both, are as follows:

(i) If the hardness concentration of surface waters is greater than or equal to one hundred (100) mg/l but less than or equal to five hundred (500) mg/l, and if the chloride concentration of surface waters is greater than or equal to five (5) mg/l but less than twenty-five (25) mg/l, then:

$$C = [-57.478 + 5.79 \text{ (hardness)} + 54.163 \text{ (chloride)}] \times 0.65$$

Where: C = sulfate criterion in mg/l.

(ii) If the hardness concentration of surface waters is greater than or equal to one hundred (100) mg/l but less than or equal to five hundred (500) mg/l, and if the chloride concentration of surface waters is greater than or equal to twenty-five (25) mg/l but less than or equal to five hundred (500) mg/l, then:

$$C = [1276.7 + 5.508 \text{ (hardness)} - 1.457 \text{ (chloride)}] \times 0.65$$

Where: C = sulfate criterion in mg/l.

(iii) If the hardness concentration of surface waters is less than one hundred (100) mg/l and the chloride concentration of surface waters is less than or equal to five hundred (500) mg/l, the sulfate criterion is five hundred (500) mg/l.

(iv) If the hardness concentration of surface waters is greater than five hundred (500) mg/l and the chloride concentration of surface waters is greater than or equal to five (5) mg/l, but less than or equal to five hundred (500) mg/l, the sulfate criterion is calculated using a hardness concentration of five hundred (500) mg/l and the equation in item (i) or (ii) that applies to the chloride concentration.

(v) If the chloride concentration of surface waters is less than five (5) mg/l, the sulfate criterion is five hundred (500) mg/l.

(B) This clause applies to the surface water quality criteria for sulfate provided in clause (A), as follows:

(i) Sulfate criteria may only be established based on a chloride concentration greater than the CAC for chloride established under subdivision (6) where the CAC for chloride has been modified on a site-specific basis in accordance with either the:

(AA) variance provisions under section 8.8 of this rule; or

(BB) site-specific criteria provisions under section 8.9 of this rule.

(ii) The surface water quality criteria for sulfate calculated from equations in clause (A) must be rounded to the nearest whole numbers, except when the criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(C) The surface water quality criteria for sulfate in mg/l at selected concentrations of hardness (in mg/l as $CaCO_3$) and chloride are as follows:

Table 6-5[1]

	Hardness (mg/l)										
Chloride (mg/l)	<100	100	150	200	250	300	350	400	450	500	>500
<5	500	500	500	500	500	500	500	500	500	500	500
5	500	515	703	891	1080	1268	1456	1644	1832	2020	2020
10	500	691	879	1067	1256	1444	1632	1820	2008	2196	2196
15	500	867	1055	1243	1432	1620	1808	1996	2184	2372	2372
20	500	1043	1231	1419	1608	1796	1984	2172	2360	2549	2549
25	500	1164	1343	1522	1701	1880	2059	2238	2417	2596	2596
50	500	1141	1320	1499	1678	1857	2036	2215	2394	2573	2573
100	500	1093	1272	1451	1630	1809	1988	2167	2346	2525	2525
150	500	1046	1225	1404	1583	1762	1941	2120	2299	2478	2478
200	500	998	1177	1356	1535	1715	1894	2073	2252	2431	2431
250	500	951	1130	1309	1488	1667	1846	2025	2204	2383	2383

[1]The equations in clause (A) must be used instead of the criteria in this table when sulfate criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(9) Fluoride must not exceed two (2.0) mg/l in surface waters outside of a mixing zone except in the Ohio River and Interstate Wabash River where it must not exceed one (1.0) mg/l outside of a mixing zone.

(b) In addition to subsection (a), the following minimum conditions are applicable in the surface waters outside of a mixing zone to ensure conditions necessary for the maintenance of a well-balanced aquatic community:

(1) There must be no substance that:

(A) imparts unpalatable flavor to food fish; or

(B) results in offensive odors in the vicinity of the water.

(2) No pH values below six (6.0) or above nine (9.0) are permitted, except daily fluctuations that:

(A) exceed pH nine (9.0); and

(B) are correlated with photosynthetic activity.

(3) Concentrations of dissolved oxygen must:

(A) average at least five (5.0) milligrams per liter per calendar day; and

(B) not be less than four (4.0) milligrams per liter at any time.

(4) Conditions for temperature are as follows:

(A) Abnormal temperature changes that may adversely affect aquatic life are prohibited unless caused by natural conditions.

(B) The normal daily and seasonal temperature fluctuations that existed before the addition of heat due to other than natural causes must be maintained.

(C) The maximum temperature rise at any time or place above natural temperatures must not exceed:

(i) five (5) degrees Fahrenheit (two and eight-tenths (2.8) degrees Celsius) in streams; and

(ii) three (3) degrees Fahrenheit (one and seven-tenths (1.7) degrees Celsius) in lakes and reservoirs.

(D) Water temperatures must not exceed the maximum limits in the following table:

(i) during more than one percent (1%) of the hours in the twelve (12) month period ending with any month; and

(ii) by more than three (3) degrees Fahrenheit (one and seven-tenths (1.7) degrees Celsius):

Table 6-6

	Ohio River Main Stem °F(°C)	Other Indiana Streams °F(°C)
January	50 (10.0)	50 (10.0)
February	50 (10.0)	50 (10.0)
March	60 (15.6)	60 (15.6)
April	70 (21.1)	70 (21.1)
May	80 (26.7)	80 (26.7)
June	87 (30.6)	90 (32.2)
July	89 (31.7)	90 (32.2)
August	89 (31.7)	90 (32.2)
September	87 (30.7)	90 (32.2)
October	78 (25.6)	78 (25.5)
November	70 (21.1)	70 (21.1)
December	57 (14.0)	57 (14.0)

(5) The following criteria must be used to regulate ammonia:

(A) Except for waters covered in clause (B), surface waters outside of mixing zones must be free of substances in concentrations that, on the basis of available scientific data, are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to:

(i) humans;

(ii) animals;

(iii) aquatic life; or

(iv) plants.

(B) For waters listed in subsection (c), the following ammonia criteria apply outside of a mixing zone:

Table 6-7

Maximum Ammonia Concentrations (Unionized Ammonia as N)***

(mg/l) Temperature (°C)

pH	0	5	10	15	20	25	30
6.5	0.0075	0.0106	0.0150	0.0211	0.0299	0.0299	0.0299
6.6	0.0092	0.0130	0.0183	0.0259	0.0365	0.0365	0.0365
6.7	0.0112	0.0158	0.0223	0.0315	0.0444	0.0444	0.0444
6.8	0.0135	0.0190	0.0269	0.0380	0.0536	0.0536	0.0536
6.9	0.0161	0.0228	0.0322	0.0454	0.0642	0.0642	0.0642
7.0	0.0191	0.0270	0.0381	0.0539	0.0761	0.0761	0.0761
7.1	0.0244	0.0316	0.0447	0.0631	0.0892	0.0892	0.0892
7.2	0.0260	0.0367	0.0518	0.0732	0.1034	0.1034	0.1034
7.3	0.0297	0.0420	0.0593	0.0837	0.1183	0.1183	0.1183
7.4	0.0336	0.0474	0.0669	0.0946	0.1336	0.1336	0.1336
7.5	0.0374	0.0528	0.0746	0.1054	0.1489	0.1489	0.1489
7.6	0.0411	0.0581	0.0821	0.1160	0.1638	0.1638	0.1638
7.7	0.0447	0.0631	0.0892	0.1260	0.1780	0.1780	0.1780
7.8	0.0480	0.0678	0.0958	0.1353	0.1911	0.1911	0.1911
7.9	0.0510	0.0720	0.1017	0.1437	0.2030	0.2030	0.2030
8.0	0.0536	0.0758	0.1070	0.1512	0.2135	0.2135	0.2135
8.1	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137

8.2	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.3	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.4	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.5	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.6	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.7	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.8	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
8.9	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137
9.0	0.0537	0.0758	0.1071	0.1513	0.2137	0.2137	0.2137

***To calculate total ammonia, divide the number in this table by the value determined by: $1/(10^{pK_a - pH} + 1)$.

Where: $pK_a = 0.09018 + (2729.92/(T + 273.2))$

pH = pH of water

T = °C

Table 6-8

24-Hour Average Ammonia Concentrations (Unionized Ammonia as N)***

(mg/l) Temperature (°C)

pH	0	5	10	15	20	25	30
6.5	0.0005	0.0008	0.0011	0.0015	0.0015	0.0015	0.0015
6.6	0.0007	0.0010	0.0014	0.0019	0.0019	0.0019	0.0019
6.7	0.0009	0.0012	0.0017	0.0024	0.0024	0.0024	0.0024
6.8	0.0011	0.0015	0.0022	0.0031	0.0031	0.0031	0.0031
6.9	0.0014	0.0019	0.0027	0.0038	0.0038	0.0038	0.0038
7.0	0.0017	0.0024	0.0034	0.0048	0.0048	0.0048	0.0048
7.1	0.0022	0.0031	0.0043	0.0061	0.0061	0.0061	0.0061
7.2	0.0027	0.0038	0.0054	0.0077	0.0077	0.0077	0.0077
7.3	0.0034	0.0048	0.0068	0.0097	0.0097	0.0097	0.0097
7.4	0.0043	0.0061	0.0086	0.0122	0.0122	0.0122	0.0122
7.5	0.0054	0.0077	0.0108	0.0153	0.0153	0.0153	0.0153
7.6	0.0068	0.0097	0.0136	0.0193	0.0193	0.0193	0.0193
7.7	0.0086	0.0122	0.0172	0.0242	0.0242	0.0242	0.0242
7.8	0.0092	0.0130	0.0184	0.0260	0.0260	0.0260	0.0260
7.9	0.0098	0.0138	0.0196	0.0276	0.0276	0.0276	0.0276
8.0	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.1	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.2	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.3	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.4	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.5	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.6	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.7	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.8	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
8.9	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294
9.0	0.0103	0.0146	0.0206	0.0294	0.0294	0.0294	0.0294

***To calculate total ammonia, divide the number in this table by the value determined by: $1/(10^{pK_a - pH} + 1)$.

Where: pK_a = $0.09018 + (2729.92/(T + 273.2))$
pH = pH of water
T = °C

(c) Waters designated by the Indiana department of natural resources for put-and-take trout fishing are designated as salmonid waters and must be protected for cold-water fish. In addition to subsections (a) and (b), the following criteria are applicable outside of a mixing zone in the surface waters designated as salmonid waters to ensure conditions necessary for the maintenance of a well-balanced, cold-water fish community:

(1) Dissolved oxygen concentrations must not be less than:

(A) six (6.0) milligrams per liter at any time; and

(B) seven (7.0) milligrams per liter in areas where spawning occurs during the spawning season and in areas used for imprinting during the time salmonids are being imprinted.

(2) The maximum temperature rise above natural must not exceed two (2) degrees Fahrenheit (one and one-tenth (1.1) degrees Celsius) at any time or place and, unless due to natural causes, the temperature must not exceed the following:

(A) Seventy (70) degrees Fahrenheit (twenty-one and one-tenth (21.1) degrees Celsius) at any time.

(B) Sixty-five (65) degrees Fahrenheit (eighteen and three-tenths (18.3) degrees Celsius) during spawning and imprinting periods.

(d) Bacteriological quality for recreational uses during the recreational season is as follows:

(1) The recreational season is defined as the months of April through October, inclusive.

(2) In addition to subsection (a), the criteria in this subsection are to be used to do the following:

(A) Evaluate waters for full body contact recreational uses.

(B) Establish wastewater treatment requirements.

(C) Establish effluent limits during the recreational season.

(3) For full body contact recreational uses, E. coli bacteria must not exceed the following:

(A) One hundred twenty-five (125) colony forming units (cfu) or most probable number (MPN) per one hundred (100) milliliters as a geometric mean based on not less than five (5) samples equally spaced over a thirty (30) day period.

(B) Two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters in any one (1) sample in a thirty (30) day period, except that, in cases where there are at least ten (10) samples at a given site, up to ten percent (10%) of the samples may exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters where the:

(i) E. coli exceedances are incidental and attributable solely to E. coli resulting from the discharge of treated wastewater from a wastewater treatment plant as defined at IC 13-11-2-258; and

(ii) criterion in clause (A) is met.

However, a single sample is used for making beach notification and closure decisions.

If a geometric mean cannot be calculated because five (5) equally spaced samples are not available, then the criterion stated in clause (B) must be met.

(4) For demonstrating compliance with wastewater treatment requirements, sanitary wastewater dischargers shall ensure the following:

(A) The concentration of E. coli in the undiluted discharge does not exceed one hundred twenty-five (125) cfu or MPN per one hundred (100) milliliters as a geometric mean of the effluent samples taken in a calendar month.

(B) Not more than ten percent (10%) of all samples when not less than ten (10) samples are taken and analyzed for E. coli in a calendar month exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters as a daily maximum. Under this clause, the calculation of ten percent (10%) of the samples taken must be limited to the lowest whole number result.

(5) Effluent limits to implement the criteria in subdivision (3) during the recreational season must be established in NPDES permits by incorporating the following that are to be applied to the undiluted discharge:

(A) The concentration of E. coli in the undiluted discharge must not exceed one hundred twenty-five (125) cfu or MPN per one hundred (100) milliliters as a geometric mean of the effluent samples taken in a calendar month.

(B) Not more than ten percent (10%) of all samples in a calendar month exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters as a daily maximum. Under this clause, the calculation of ten percent (10%) of the samples taken must be limited to the lowest whole number result.

(e) In addition to subsections (a) and (d), the criteria to protect the surface water quality at the point at which water is withdrawn for treatment for public water supply are as follows:

(1) The coliform bacteria group must not exceed the following:

(A) Five thousand (5,000) cfu or MPN per one hundred (100) milliliters as a monthly average value (either MPN or membrane filter (MF) count).

(B) Five thousand (5,000) cfu or MPN per one hundred (100) milliliters in more than twenty percent (20%) of the samples examined during any month.

(C) Twenty thousand (20,000) cfu or MPN per one hundred (100) milliliters in more than five percent (5%) of the samples examined during any month.

(2) Taste and odor producing substances, other than naturally occurring, must not interfere with the production of a finished water by conventional treatment consisting of the following:

(A) Coagulation.

(B) Sedimentation.

(C) Filtration.

(D) Disinfection.

(3) The concentrations of either chloride or sulfate must not exceed two hundred fifty (250) milligrams per liter unless due to naturally occurring sources.

(4) The concentration of dissolved solids must not exceed seven hundred fifty (750) milligrams per liter unless due to naturally occurring sources. A specific conductance of one thousand two hundred (1,200) micromhos per centimeter (at twenty-five (25) degrees Celsius) may be considered equivalent to a dissolved solids concentration of seven hundred fifty (750) milligrams per liter.

(5) Surface waters are acceptable for public water supply if radium-226 and strontium-90 are present in amounts not exceeding three (3) and ten (10) picocuries per liter, respectively. In the known absence of strontium-90 and alpha emitters, the water supply is acceptable when the gross beta concentrations do not exceed one thousand (1,000) picocuries per liter.

(6) The:

(A) combined concentration of nitrate-N and nitrite-N must not exceed ten (10) milligrams per liter as a thirty (30) day average value; and

(B) concentration of nitrite-N must not exceed one (1) milligram per liter as a thirty (30) day average value.

(7) Chemical constituents in the waters must not be present at levels that prevent, after conventional treatment, meeting the drinking water standards contained in 327 IAC 8-2, due to other than natural causes.

(f) In addition to subsection (a), dissolved solids must not exceed seven hundred fifty (750) milligrams per liter at any time other than from naturally occurring sources to ensure protection of water quality at the point at which surface water is withdrawn for use, either with or without treatment, for industrial cooling and processing. A specific conductance of one thousand two hundred (1,200) micromhos per centimeter (at twenty-five (25) degrees Celsius) may be considered equivalent to a dissolved solids concentration of seven hundred fifty (750) milligrams per liter.

(g) The criteria to ensure surface water quality conditions necessary for agricultural use are the same as those in subsection (a).

(h) The quality of surface waters designated for limited uses under section 11(a) of this rule must, at a minimum, meet the criteria contained in subsections (a), (d), and where applicable, (f), and be aerobic at all times. However, the water must meet the criteria that are applicable to the higher use water at the point where a limited use water:

(1) becomes physically or chemically capable of supporting a higher use; or

(2) interfaces with a higher use water segment.

*This document is incorporated by reference. Copies may be obtained from the U.S. EPA National Service Center for Environmental Publications (www.epa.gov/nscep), or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1-6; filed Sep 24, 1987, 3:00 p.m.: 11 IR 581; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1020; errata, 13 IR 1861; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2003; filed Feb 26, 1993, 5:00 p.m.: 16 IR 1725; errata filed May 7, 1993, 4:00 p.m.: 16 IR 2189; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1348; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2047; errata filed Apr 6, 2006, 2:48 p.m.: 29 IR 2546; errata, 29 IR 3027; filed Mar 18, 2008, 2:26 p.m.: 20080416-IR-327060573FRA; filed May 22, 2008, 10:40 a.m.: 20080618-IR-327070185FRA; filed Jul*

9, 2012, 2:54 p.m.: 20120808-IR-327110320FRA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA; filed Nov 5, 2021, 12:56 p.m.: 20211201-IR-327140058FRA)

327 IAC 2-1-7 Interim ground water quality standards *(Repealed)*

Sec. 7. *(Repealed by Water Pollution Control Division; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1882)*

327 IAC 2-1-8 Methods of analysis

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 8. The analytical procedures used as methods of analysis to determine the chemical, bacteriological, biological, and radiological quality of waters sampled must be completed in accordance with 40 CFR 136* or methods approved by the commissioner.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1-8; filed Sep 24, 1987, 3:00 p.m.: 11 IR 583; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1033; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2055; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1-8.1 Calculation of criteria for toxic substances; general

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.1. (a) Water quality standards for the state of Indiana indicate that all surface waters at all times and at all places, including the mixing zone, shall be free of substances or combinations of substances that are in amounts sufficient to be acutely toxic to humans, other animals, plants, or aquatic life. Toxic substances include, but are not limited to, those substances identified under Section 307(a) of the Clean Water Act. The allowable concentration of a toxic substance in surface water shall be determined for that substance by the procedures in sections 8.2 through 8.9 of this rule.

(b) The use of dissolved metal to set and measure compliance with water quality standards for aquatic life is the recommended approach because dissolved metal more closely approximates the bioavailable fraction of metal in the water column than does total recoverable metal. Reasons for the consideration of total recoverable metals criteria include risk management considerations not covered by evaluation of water column toxicity. The commissioner may, after considering sediment and food chain effects for a particular metal, decide to take a more conservative approach for the metal. This approach could include the expression of aquatic life criteria for the metal in the form of total recoverable metal. If the commissioner determines that it is appropriate to express aquatic life criteria for a particular metal in the form of dissolved metal, the criteria shall be determined as follows:

(1) If sufficient toxicological data in the form of dissolved metal are available, these data shall be used in sections 8.2, 8.3, and 8.9 of this rule to derive aquatic life criteria directly in the form of dissolved metal.

(2) If sufficient toxicological data in the form of dissolved metal are not available, aquatic life criteria shall be derived in the form of total recoverable metal using the procedures in sections 8.2, 8.3, and 8.9 of this rule and then multiplied by criteria conversion factors approved by the commissioner to express the criteria in the form of dissolved metal.

(3) If sufficient toxicological data in the form of dissolved metal are not available and criteria conversion factors for the particular metal have not been approved by the commissioner, aquatic life criteria shall be derived in the form of total recoverable metal using the procedures in sections 8.2, 8.3, and 8.9 of this rule and expressed in the form of total recoverable metal.

(Water Pollution Control Division; 327 IAC 2-1-8.1; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1033; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2003; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2055)

327 IAC 2-1-8.2 Determination of acute aquatic criteria (AAC)

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.2. In order to ensure that the concentration of a substance or combination of substances does not become acutely toxic to aquatic organisms, an acute aquatic criterion (AAC) will be determined by one (1) of the following methods:

(1) The following for Method 1:

(A) If no AAC is available in section 6(a)(3), Table 6-1 of this rule, section 6(a)(3), Table 6-2 of this rule, or section 6(a)(5) of this rule, for the substance, an AAC can be calculated using the procedures in this subdivision.

(B) An acute criterion can be calculated using modified U.S. EPA procedures when acute toxicity data are available for at least five (5) North American genera of freshwater organisms, including representatives of the following families:

(i) The family Salmonidae.

(ii) The family Cyprinidae or Centrarchidae.

(iii) Another family, not represented in item (i) or (ii), in the Class Osteichthyes.

(iv) The family Daphnidae.

(v) Another aquatic macroinvertebrate family.

(C) Resident species data are preferred for the required data set in clause (B). If one (1) or more of the required families are not a site resident, the requirement may be waived and appropriate substitution will be made. If data are not available for resident species, data for nonresident species may be substituted and will be assumed to be representative of resident species. The AAC is calculated using the following procedures:

(i) If the acute toxicity of the chemical has not been adequately shown to be related to a water quality characteristic, such as hardness, pH, or temperature, the AAC is calculated using the following procedures:

(AA) For each species for which at least one (1) acute value is available, the species mean acute value (SMAV) is calculated as the geometric mean of the results of all tests in which the concentrations of test material were stable as shown by measured values. For a species for which no such result is available, the SMAV should be calculated as the geometric mean of all available acute values, for example, results of flow-through tests in which the concentrations were not measured and results of static and renewal tests based on initial concentrations of test material.

(BB) For each genus for which one (1) or more SMAVs are available, the genus mean acute value (GMAV) is calculated as the geometric mean of the SMAVs available for the genus.

(CC) The GMAVs are ordered from high to low.

(DD) Ranks (R) are assigned to the GMAVs from "1" for the lowest to "N" for the highest. If two (2) or more GMAVs are identical, successive ranks are arbitrarily assigned.

(EE) The cumulative probability, P, is calculated for each GMAV as R/(N + 1).

(FF) The (T) GMAVs (T = 2 for N = 5; T = 3 for N = 6 or 7; T = 4 for N = 8 or greater) are selected that have cumulative probabilities closest to five-hundredths (0.05). If there are fewer than fifty-nine (59) GMAVs, these will always be the two (2) (for N = 5), three (3) (for N = 6 or 7), or four (4) (for N = 8 or greater) lowest GMAVs.

(GG) Using the selected GMAVs and Ps, the final acute value (FAV) is calculated as:

$$S^2 = \frac{E^*((\ln GMAV)^2) - ((E(\ln GMAV))^2/T)}{E(P) - ((E(\sqrt{P}))^2/T)}$$

$$L = (E(\ln GMAV) - S(E(\sqrt{P})))/T$$

$$A = S(\sqrt{0.05}) + L$$

$$FAV = e^A$$

$$AAC = FAV/2$$

$$^*E = \text{Summation}$$

(HH) If, for a commercially, recreationally, or ecologically important species, the geometric mean of the acute values from flow-through tests in which the concentrations of test material were measured is lower than the calculated FAV, then that geometric mean is used as the FAV instead of the calculated FAV.

(ii) If data are available to show that acute toxicity to two (2) or more species is similarly related to a water quality characteristic, the AAC is calculated using the procedures as follows:

(AA) For each species for which comparable acute toxicity values are available at two (2) or more different values of the water quality characteristic, a least squares regression of the acute toxicity values on the corresponding values of the water quality characteristic is performed to obtain the slope of the curve that describes the relationship. Because the best documented relationship is that between hardness and acute toxicity of metals and a log-log relationship fits these data, geometric means and natural logarithms of both toxicity and water quality are used in the rest of this procedure to illustrate the method. For relationships based on other water quality characteristics, such as pH or temperature, no transformation or a different transformation might fit the data better, and appropriate changes will be made as necessary throughout this method.

(BB) Each acute slope is evaluated as to whether or not it is meaningful, taking into account the range and number of tested values of the water quality characteristic and the degree of agreement within and between species. If meaningful slopes are not available for at least one (1) fish and one (1) invertebrate, or if the available slopes are too dissimilar, or if too few data are available to adequately define the relationship between acute toxicity and the water quality characteristic, the AAC is calculated using the procedures in item (i).

(CC) Individually, for each species, the geometric mean of the available acute values is calculated and then each of the acute values for a species is divided by the mean for the species. This normalizes the acute values so that the geometric mean of the normalized values for each species individually and for any combination of species is one (1.0).

(DD) The values of the water quality characteristic are similarly normalized for each species individually.

(EE) All the normalized data are treated as if they were for the same species and a least squares regression of all the normalized acute values on the corresponding normalized values of the water quality characteristic is performed to obtain the pooled acute slope, V.

(FF) For each species the geometric mean, W, of the acute toxicity values and the geometric mean, X, of the water quality characteristic are calculated. (These were calculated in subitems (CC) through (DD).)

(GG) For each species the logarithmic intercept, Y, is calculated using the equation:

$$Y = \ln W - V(\ln X - \ln Z)$$

(HH) For each species calculate the SMAV at Z using the equation:

$$SMAV = e^{Y}$$

(II) Obtain the FAV at Z by using the procedures described in subitems (BB) through (HH), replacing "value" with "intercept".

(JJ) The final acute equation is written as:

$$\text{final acute value (FAV)} = e^{(V\ (\ln\ (\text{water quality characteristic}) + \ln A - V\ (\ln Z))}$$

Where: V = pooled acute slope (from subitem (EE))

A = FAV at Z (from subitem (II))

Since V, A, and Z are known, the FAV can be calculated for any selected value of the water quality characteristic.

(KK) The AAC is equal to the FAV/2.

(D) If data are not available for at least five (5) North American freshwater genera meeting the requirements in clause (B), go to subdivision (2).

(2) The following for Method 2:

(A) If the required data to derive the AAC in subdivision (1)(C) are not present in the acute toxicity data base and at

least one (1) LC_{50} value is available for a daphnid species and either fathead minnow, bluegill, or rainbow trout, an FAV is calculated by dividing the lowest SMAV for the daphnid species, fathead minnow, bluegill, and rainbow trout by five (5) if rainbow trout are represented or ten (10) if rainbow trout are not represented. The AAC equals the FAV divided by two (2). If appropriate, the AAC will be made a function of a water quality characteristic in a manner similar to that described in subdivision (1)(C)(ii).

(B) If the data required in clause (A) are not available, no AAC can be calculated and the discharger will be required to develop the minimum data base (ninety-six (96) hour LC_{50} for rainbow trout, fathead minnow, or bluegill and a forty-eight (48) hour LC_{50} for a daphnid) needed to calculate the AAC.

(Water Pollution Control Division; 327 IAC 2-1-8.2; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1033; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1357; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2056; filed Jul 9, 2012, 2:54 p.m.: 20120808-IR-327110320FRA)

327 IAC 2-1-8.3 Determination of chronic aquatic criteria (CAC)

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.3. In order to ensure that the concentration of a substance or combination of substances does not produce chronic effects on aquatic organisms, a chronic aquatic criterion (CAC) will be determined by one (1) of the following methods:

(1) The following for Method 1:

(A) If no CAC is given for the substance in section 6(a)(3), Table 6-1 of this rule, section 6(a)(3), Table 6-2 of this rule, or section 6(a)(5) of this rule, a CAC can be calculated using the procedures in this subdivision.

(B) The CAC is derived in the same manner as the FAV in section 8.2(1) of this rule by substituting CAC for FAV, chronic for acute, MATC (maximum acceptable toxicant concentration) for LC_{50}, SMCV (species mean chronic value) for SMAV, and GMCV (genus mean chronic value) for GMAV.

(C) If chronic toxicity data are not available for at least five (5) North American freshwater genera meeting the requirements in section 8.2(1)(B) of this rule, go to subdivision (2).

(2) The following for Method 2:

(A) The CAC can be calculated by dividing the FAV by an acute-chronic ratio (or geometric mean of the acute-chronic ratios if more than one (1) is available) for at least one (1) North American freshwater species.

(B) If no acute-chronic ratio is available for at least one (1) North American freshwater species, go to subdivision (3).

(3) The following for Method 3:

(A) The CAC can be calculated by dividing the FAV by a factor of forty-five (45). If, for a commercially, recreationally, or ecologically important species, the geometric mean of the chronic values is lower than the calculated CAC, then that geometric mean is used as the CAC instead of the calculated CAC.

(B) If the data needed in clause (A) are not available, no CAC can be calculated and the discharger will be required to develop the minimum data base necessary to calculate the CAC (ninety-six (96) hour LC_{50} for rainbow trout, fathead minnow, or bluegill and a forty-eight (48) hour LC_{50} for a daphnid).

(Water Pollution Control Division; 327 IAC 2-1-8.3; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1035; errata, 13 IR 1861; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004; errata filed Jul 24, 1990, 4:55 p.m.: 13 IR 2138; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1359; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2057; filed Jul 9, 2012, 2:54 p.m.: 20120808-IR-327110320FRA)

327 IAC 2-1-8.4 Determination of the terrestrial life cycle safe concentration (TLSC)

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.4. The concentration to protect wildlife is the terrestrial life cycle safe concentration (TLSC). The minimum toxicity data requirement for derivation of a TLSC shall consist of an acute oral LD_{50} for rats. When mammalian and avian toxicity data are available, a TLSC shall be calculated for both groups. The final TLSC is the lowest of the two (2) values. The TLSC shall be derived by one (1) of the following methods, depending on the type and quality of the toxicity data base:

(1) If a chronic, subchronic, or subacute no observable adverse effect level (NOAEL) from mammalian or avian species

exposed to toxicant contaminated water is available:

$$TLSC = \frac{NOAEL\ (mg/l)}{U}$$

Where: U = uncertainty factor (U = 10-100 depending on quality of study)

(2) If a chronic, subchronic, or subacute NOAEL from mammalian or avian species exposed to toxicant contaminated feed is available:

$$TLSC = \frac{NOAEL\,(ppm) \times C \times \frac{W_a}{V_w}}{U}$$

Where: C = weight of feed consumed daily expressed as a fraction of test animal's body weight

W_a = weight of test animal (kg)

V_w = volume of water consumed daily by the test animal

(3) If a chronic, subchronic, or subacute NOAEL from mammalian or avian species exposed to toxicant by gavage is available:

$$TLSC = \frac{NOAEL\,(mg/kg/day) \times \frac{W_a}{V_w} \times Fw}{U}$$

Where: Fw = fraction of days dosed per week

(4) If an oral rat LD_{50} is available:

$$TLSC = \frac{LD_{50}\,(mg/kg) \times \frac{W_a}{V_w} \times M}{10}$$

Where: M = one ten-thousandth (0.0001), acute to chronic application factor

(5) TLSCs are best derived from data involving oral exposure. However, if available oral data are insufficient, it may be useful to use data from other exposure routes. Use of such data will depend on the specific pharmacokinetic and toxicological properties of each chemical.

(6) If an acceptable NOAEL is lacking, the lowest observable adverse effect level (LOAEL) may be substituted in some cases for NOAEL, with an additional uncertainty factor of one (1) to ten (10).

(7) On the basis of available information, the TLSC is evaluated as to whether it is consistent with sound scientific judgment. If not, the commissioner will direct the evaluation of appropriate modifications of these procedures.

(Water Pollution Control Division; 327 IAC 2-1-8.4; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1036; errata, 13 IR 1861; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004)

327 IAC 2-1-8.5 Determination of the human life cycle safe concentration (HLSC)

Authority: IC 13-14-8; IC 13-18-3

Affected: IC 13-18-4

Sec. 8.5. The concentration to protect public health from threshold effect toxicants is the human life cycle safe concentration (HLSC). The minimum toxicity data requirement for derivation of an HLSC shall consist of an acute oral LD_{50} for rats. The HLSC shall be derived in the following manner:

(1) The HLSC shall be derived from appropriate toxicological data using the following formula:

$$HLSC = \frac{MgT\,(mg/day)}{WC + (F \times BCF)}$$

Where: MgT = maximum milligrams of toxicant per day causing no adverse effects to humans when ingested daily for lifetime

WC = volume of water consumed daily in liters (two (2) liters per day for surface water protected for drinking water supply; one-hundredth (0.01) liter per day for surface water not protected for drinking water supply)

F = sixty-five ten-thousandths (0.0065) kilograms per day, daily consumption of fish by humans

BCF = bioconcentration factor in $\frac{mg/kg}{mg/l}$ as determined in section 8.7 of this rule

(2) The MgT shall be derived by one (1) of the following methods depending on the type and quality of the toxicity data base:

(A) If a scientifically valid maximum contaminant level (MCL) from the national interim primary drinking water regulations is available:

$$MgT = MCL\ (mg/l) \times V_h$$

Where: V_h = two (2) liters per day, volume of water consumed daily by humans

(B) If a chronic, subchronic, or subacute no observable adverse effect level (NOAEL) for humans exposed to toxicant contaminated drinking water is available:

$$MgT = \frac{NOAEL\ (mg/l) \times V_h}{U}\ (1/day)$$

Where: U = uncertainty factor (U = 10 - 100)

(C) If a scientifically valid acceptable daily intake (ADI) is available from the federal Food and Drug Administration regulations: MgT = ADI.

(D) If a chronic, subchronic, or subacute NOAEL from mammalian test species exposed to toxicant contaminated drinking water is available:

$$MgT = \frac{NOAEL(mg/l) \times \frac{V_w}{W_a} \times W_h}{B}$$

Where: V_w = volume of water consumed daily by test animal (liters per day)

W_a = weight of test animal (kg)

W_h = seventy (70) kilograms, weight of human

B = uncertainty factor (B = 100–1,000 depending on quality of study)

(E) If a chronic, subchronic, or subacute NOAEL from mammalian test species exposed to toxicant contaminated food is available:

$$MgT = \frac{NOAEL(ppm) \times C \times W_h}{B}$$

Where: C = daily food consumption expressed as a fraction of the animal's body weight

(F) If a chronic, subchronic, or subacute NOAEL from mammalian test species exposed to toxicant by gavage is available:

$$MgT = \frac{NOAEL(mg/kg/day) \times F_w \times W_h}{B}$$

Where: F_w = fraction of days dosed per week

(G) If an oral rat LD_{50} is available:

$$MgT = \frac{LD_{50}(mg/kg) \times M \times W_h}{100}$$

Where: M = one-ten thousandth (0.0001), acute to chronic application factor

(H) If an acceptable NOAEL is lacking, the lowest observable adverse effect level (LOAEL) may be substituted in some cases for NOAEL, with an additional uncertainty factor of one (1) to ten (10).

(I) HLSCs are best derived from data involving oral exposure. However, if available oral data are insufficient, it may be useful to use data from other exposure routes. Use of such data will depend on the specific pharmacokinetic and toxicological properties of each chemical.

(J) On the basis of available information, the HLSC is evaluated as to whether it is consistent with sound scientific judgment. If not, the commissioner will direct the evaluation of appropriate modifications of these procedures.

(Water Pollution Control Division; 327 IAC 2-1-8.5; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1037; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004)

327 IAC 2-1-8.6 Determination of concentration providing an acceptable degree of protection to public health for cancer

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.6. (a) The concentration providing an acceptable degree of protection to public health for cancer shall be derived as provided in subsection (b)(1). For carcinogens that are assumed to cause cancer by a nonthreshold mechanism, a greater degree of protection than that derived in subsection (b)(1) may be proposed where this greater protection is achievable through utilization of control measures already in place.

(b) Initially, any chemical for which at least one (1) published mammalian carcinogenicity study of suitable quality demonstrates an association between exposure to the chemical and a statistically or biologically significant increase in the incidence of malignant or benign tumors shall be considered a carcinogen. With respect to "suitable quality," the only type of carcinogenicity study which will be automatically excluded from consideration as sole evidence of the carcinogenic properties of a particular chemical will be studies in which the tested chemical was administered via an injection route of exposure and an increase in malignant or benign tumors was produced only at the site of injection. Not included in this category are studies in which an injection dosing was administered intratracheally or by gavage. The commissioner shall reevaluate the carcinogenic potential of substances when new data of suitable quality become available.

(1) A water concentration of the carcinogen shall be derived from human epidemiological data or from appropriate animal research data using the following formula:

$$C = \frac{D \times W_h}{WC + (F \times BCF)}$$

Where:

C	=	concentration of the carcinogen (mg/l)
D	=	dose derived in clause (A), (B), or (C) (mg/kg/day)
W_h	=	seventy (70) kilograms, weight of an average human
WC	=	daily water consumption (0.01 liters per day for surface water not protected for drinking water supply; 2.0 liters per day for surface waters protected for drinking water supply)
F	=	sixty-five ten-thousandths (0.0065) kilograms per day, daily fish consumption
BCF	=	bioconcentration factor in $\frac{mg/kg}{mg/l}$ as determined in section 8.7 of this rule

(A) The dose (D) may be derived from appropriate human epidemiological data on a case-by-case basis by the commissioner.

(B) Whenever appropriate human epidemiological data are not available, a nonthreshold mechanism shall be assumed for carcinogens which have not been adequately demonstrated to cause cancer by a threshold mechanism. The dose (D) shall be the concentration estimated to cause one (1) additional cancer over the background rate in one hundred thousand (100,000) individuals exposed to that concentration calculated using the following method:

(i) All carcinogenesis bioassay data are reviewed and data of appropriate quality are used for the quantitative risk estimations. The data are fitted into the multistage model using the computer model GLOBAL 82 developed by Howe and Crump (1982). The upper ninety-five percent (95%) confidence limit on risk at the one (1) in one

hundred (100) risk level is divided by the maximum likelihood dose at the same level of risk which determines the slope, q_{1*}. This is taken as an upper bound of the potency of the chemical in inducing cancer at low doses. Whenever the multistage model does not fit the data, as determined by the Chi-square goodness of fit statistical test, the model is refitted to the data omitting the highest dose. This is continued until an acceptable fit is determined as described in the U.S. EPA 1980 water quality criteria documents (45 Fed. Reg. 79316-79379). If a single study in which a chemical induces more than one (1) type of tumor is available, then the response for the tumor type predicting the highest estimate of q_{1*} is generally used for the risk assessment. If two (2) or more studies of equal quality are available, but vary in any of the following: species, strain, sex, or tumor type, then the data set giving the highest estimate of q_{1*} is generally used for the risk assessment. If two (2) or more studies exist which are identical regarding species, strain, sex, tumor type, and are of equal quality, then the geometric mean of the q_{1*} values from these data sets is used.

(ii) The dose corresponding to an estimated one (1) additional cancer in one hundred thousand (100,000) exposed test organisms is determined by dividing 10^{-5} by the value for q_1^*.

(iii) A species sensitivity factor is used to account for differences between test species and man. It is assumed that milligrams per surface area per day is an equivalent dose between species. The value may be calculated by dividing the average weight of a human seventy (70) kilograms by the weight of the test species and taking the cube root of this value; the slope q_{1*} is multiplied by this factor. However, if adequate pharmacokinetic and metabolism studies are available, this data may be factored into the adjustment for species differences on a case-by-case basis.

(iv) All doses are adjusted to give a lifetime average daily dose. If dosing was only for a fraction of a lifetime, then the total dose is averaged over the entire life span.

(v) If the duration of experiment (L_e) is less than the natural life span of the test animal (L), the slope, q_{1*}, is multiplied by the factor

$$\left(\frac{L}{L_e}\right)^3.$$

(C) Whenever appropriate human epidemiological data are not available, and the preponderance of data suggests that the chemical causes cancer by a threshold mechanism and does not interact with DNA, the dose (D) for chemicals shall be calculated from animal research data by applying a safety factor to an appropriate toxicity end point.

(i) The appropriate toxicity end point shall be determined by the commissioner on a case-by-case basis.

(ii) The safety factor shall be determined by the commissioner based on an evaluation of appropriate toxicological and pharmacological considerations including, mechanism of carcinogenesis, number and type of tumors induced, the spontaneous incidence of tumors, the number of animal species tested and affected, metabolic considerations, epidemiologic observation on exposed humans, extent of the data supporting a nongenetic mechanism, and other pertinent information.

(iii) A species sensitivity factor may be used to account for differences between test species and man.

(2) On the basis of available information, the concentration providing an acceptable degree of protection to public health for cancer is evaluated as to whether it is consistent with sound scientific judgment. If not, the commissioner will direct the evaluation of appropriate modifications of these procedures.

(Water Pollution Control Division; 327 IAC 2-1-8.6; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1038; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004)

327 IAC 2-1-8.7 Determination of bioconcentration factor

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-18-4

Sec. 8.7. The final bioconcentration factor (BCF_f) standardized to reflect the value for fresh fish tissue having a lipid content of nine and six-tenths percent (9.6%) shall be determined as follows in order of preference:

(1) Measured, steady-state bioconcentration factors from standardized laboratory tests shall be recorded as BCF_m. If more than a single value is available, the BCF_m shall be equal to the geometric mean of the reported values.

(2) If bioconcentration factors are available from other laboratory tests, the BCF_m will be the projected steady-state BCF as extrapolated from the test data.

(3) If measured bioconcentration factors (BCF_m) are not available from laboratory studies, a calculated bioconcentration factor (BCF_c) will be determined by the following equation:

$$\log BCF_c = 0.847 \log Kow - 0.628$$

(A) If a measured Kow is not available for the chemical of interest the Kow may be calculated according to standard references and used in the regression equation in this subdivision.

(B) If a Kow cannot be calculated, BCF_c may be estimated on a case-by-case basis using other regression equations or correlations as appropriate.

(4) The final bioconcentration factor (BCF_f) will be obtained by normalization to nine and six-tenths percent (9.6%) lipids as follows:

(A) For measured bioconcentration factors:

$$BCF_f = BCF_m \frac{(9.6)}{L}$$

Where: BCF_m = measured bioconcentration factor

L = percent lipid content of fish used in the test

(B) For bioconcentration factors calculated from Kow:

$$BCF_f = BCF_c \frac{(9.6)}{4.8}$$

Where: BCF_c = calculated bioconcentration factor from log Kow or other regression equations

4.8 = average percent lipid for test fish used to develop the regression equation in subdivision (3)

(5) The commissioner shall direct the evaluation of the final bioconcentration factor (BCF_f) calculated above to determine if a trophic level adjustment is warranted.

(Water Pollution Control Division; 327 IAC 2-1-8.7; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1039)

327 IAC 2-1-8.8 Variances from water quality standards; conditions

Authority: IC 13-14-8; IC 13-18-3

Affected: IC 4-22-2; IC 13-14-8-8; IC 13-14-8-9; IC 13-14-8-10; IC 13-14-9; IC 13-18-4

Sec. 8.8. (a) A permit applicant or permittee may apply to the commissioner for a variance from the water quality standard used to derive a water quality-based effluent limitation (WQBEL) contained in a NPDES permit for a specific substance. The application for such a variance shall be submitted in accordance with the requirements specified in 327 IAC 5-3-4.1.

(b) The commissioner may approve all or part of a requested variance, or modify and approve a requested variance, if the permit applicant demonstrates that implementing a proposed methodology, which includes any production process(es), wastewater treatment technology, or combination thereof used to reduce pollutants discharged in the wastewater from a facility, as identified pursuant to 327 IAC 5-3-4.1(b)(2)(A), will cause an undue hardship or burden upon the applicant.

(c) In making a determination on a variance application, the commissioner shall balance the environmental impact likely to result if the variance is granted against the hardship or burden upon the applicant if the variance is not granted. In balancing these factors, the commissioner shall consider the following to determine if the hardship or burden upon the applicant is undue:

(1) The cost and cost effectiveness of pollutant removal by implementing the methodologies proposed by the applicant and the methodology capable of attaining the WQBEL.

(2) The reduction in concentrations and loadings of pollutants attainable by the methodologies proposed by the applicant as compared with the reduction attainable by use of the methodology capable of attaining the WQBEL.

(3) The impact of the proposed methodologies and the methodology capable of attaining the WQBEL on the price of the goods or services provided by the applicant.

(4) Information on the relative price of goods or services in the same market as the applicant.

(5) The overall impact of attaining the WQBEL and implementing the proposed methodologies on employment at the

facility.

(6) Information on the type and magnitude of adverse or beneficial environmental impacts, including the net impact on the receiving water, resulting from the proposed methodologies that could be applied to the control of the substance for which a variance is applied.

(7) Other relevant information requested by the commissioner or supplied by the applicant or the public.

(d) The commissioner may grant the variance when the requirements of subsections (b) and (c) are met.

(e) A determination to grant or deny a requested variance shall be made in accordance with the procedures specified in 327 IAC 5-3-4.1. In making this determination, the commissioner may also consider other information available to the agency or supplied by the applicant or the public.

(f) A variance applies only to the permit applicant requesting the variance and only to the substance specified in the variance application. The granting of a variance does not imply or require that the water quality standard corresponding to the variance be modified through a rulemaking in accordance with IC 4-22-2 and IC 13-14-9.

(g) A variance or any renewal thereof shall not be granted for a term greater than that allowed by IC 13-14-8-9. Notwithstanding the time at which the application for a variance is submitted under 327 IAC 5-3-4.1, a variance shall not be granted for a term greater than the term remaining under the permit to which the variance is attached.

(h) Neither the filing of a variance application nor the granting of a variance shall be grounds for the staying or dismissing of or a defense in a pending enforcement action. A variance shall be prospective only. *(Water Pollution Control Division; 327 IAC 2-1-8.8; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1040; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004; filed Feb 26, 1993, 5:00 p.m.: 16 IR 1733; errata filed Mar 10, 1993, 5:00 p.m.: 16 IR 1832; filed Feb 15, 1995, 1:30 p.m.: 18 IR 1820; errata filed Jul 31, 2017, 11:06 a.m.: 20170809-IR-327170349ACA)*

327 IAC 2-1-8.9 Site-specific modifications to criteria

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-15-4-1; IC 13-18-4

Sec. 8.9. (a) Site-specific modifications to criteria must be protective of designated uses and aquatic life or human health. In addition, any site-specific modifications that result in less stringent criteria must be based on a sound scientific rationale and shall not be likely to jeopardize the continued existence of endangered or threatened species listed or proposed under Section 4 of the Endangered Species Act (ESA) or result in the destruction or adverse modification of the species' critical habitats. More stringent modifications shall be developed to protect endangered or threatened species listed or proposed under Section 4 of the ESA, where the modifications are necessary to ensure that water quality is not likely to jeopardize the continued existence of the species or result in the destruction or adverse modification of the species' critical habitats. More stringent modifications may also be developed to protect candidate (C1) species being considered by the U.S. Fish and Wildlife Service (FWS) for listing under Section 4 of the ESA, where the modifications are necessary to protect the species. Criteria may be modified on a site-specific basis to reflect local environmental conditions as restricted by the following provisions:

(1) Aquatic life criteria may be modified on a site-specific basis as follows:

(A) To provide an additional level of protection.

(B) Less stringent site-specific modifications to chronic or acute aquatic life criteria may be developed when either of the following conditions applies:

(i) The local water quality characteristics, such as pH, hardness, temperature, or color, alter the biological availability or toxicity of a pollutant.

(ii) The sensitivity of the aquatic organisms species that occur at the site differs from the species actually tested in developing the criteria.

(C) Less stringent modifications may also be developed to acute and chronic aquatic life criteria to reflect local physical and hydrological conditions.

(D) Any modifications to protect threatened or endangered aquatic species required by this subsection may be accomplished using either of the following procedures:

(i) If the species mean acute value (SMAV) for a listed or proposed species or for a surrogate of the species is lower than the calculated final acute value (FAV), the lower SMAV may be used instead of the calculated FAV in developing site-specific modified criteria.

(ii) The site-specific criteria may be calculated using the recalculation procedure for site-specific modifications under section 13 of this rule.

(2) Human health criteria may be modified on a site-specific basis as follows:

(A) To provide an additional level of protection in accordance with the following:

(i) Human health criteria shall be modified on a site-specific basis to provide additional protection appropriate for highly exposed subpopulations.

(ii) Any person may request the commissioner to develop a site-specific modification of a human health criterion to make it more stringent.

(iii) The commissioner shall develop the site-specific modification of the human health criterion to make it more stringent when local fish consumption rates are higher than the rate used to derive human health criteria under sections 8.5 and 8.6 of this rule.

(B) Less stringent site-specific modifications to human health criteria may be developed when local fish consumption rates are lower than the rate used to derive human health criteria under sections 8.5 and 8.6 of this rule.

(C) Local fish consumption rates referenced in clauses (A) and (B) shall be determined by a fish consumption survey applicable to the site.

(b) The application requirements for site-specific modifications to criteria allowed under subsection (a) are as follows:

(1) Except as provided in subdivision (2), the application requirements for site-specific modifications to criteria shall be determined by the commissioner on a case-by-case basis.

(2) Applications for site-specific modifications to criteria allowed under subsection (a)(1)(B)(ii) and determined using the recalculation procedure under section 13 of this rule shall include the following:

(A) A list of all species of aquatic invertebrates, amphibians, and fishes that are known to occur at the site, along with the source of the information.

(B) A list of all aquatic plant, invertebrate, amphibian, and fish species that are critical species at the site, including all species that:

(i) occur at the site; and

(ii) are listed as threatened or endangered under Section 4 of the ESA.

(C) A site-specific version of Table 1 from a criteria document produced by the U.S. EPA after 1984.

(D) A site-specific version of Table 3 from a criteria document produced by the U.S. EPA after 1984.

(E) A list of all species that were deleted.

(F) Each new calculated criterion (FAV, AAC, or CAC).

(G) Each lowered criterion if one (1) or more were lowered to protect a specific species.

(c) Upon receipt of an application for a site-specific modification to a criterion, the commissioner shall do the following:

(1) For a site-specific modification listed under subsection (d):

(A) provide notice, request comment, and, if requested, schedule and hold a public meeting on the application in accordance with 327 IAC 5-2-11.2(b); and

(B) publish all pertinent information about the proposed site-specific modification on the department's Web site.

(2) For a site-specific modification not listed under subsection (d):

(A) approve or deny the application; and

(B) if the application is approved, initiate a rulemaking to have the site-specific modification incorporated into the water quality standards.

(d) Site-specific modifications to criteria do not require a rulemaking if they are:

(1) allowed under:

(A) subsection (a) and to a criterion not specifically listed in this rule;

(B) subsection (a)(1)(B)(i) and determined using a WER; or

(C) subsection (a)(1)(B)(ii) and determined using the recalculation procedure under section 13 of this rule; or

(2) required under subsection (a) and determined under subsection (a)(1)(D).

(e) Upon approval of a site-specific modification listed in subsection (d), the commissioner shall do the following:

(1) Publish a notice in the Indiana Register.

(2) Place all pertinent information about the approved site-specific modification on the department's Web site.

(3) Submit the site-specific modification to U.S. EPA for approval if it is for a site-specific modification to a criterion

specifically listed in this rule but not for a site-specific modification to a criterion specifically listed in this rule and expressed as a function of the WER.

(4) Incorporate the site-specific modification into the water quality standards during the next revision of the water quality standards if it is for a site-specific modification to a criterion specifically listed in this rule.

(f) Site-specific modifications to criteria specifically listed in this rule, except for site-specific modifications to criteria:

(1) specifically listed in this rule; and

(2) expressed as a function of the WER;

shall not be incorporated into a final NPDES permit or used for other Clean Water Act purposes until approved by U.S. EPA.

(g) The following site-specific modifications to water quality criteria have been granted:

Table 8.9-1

Site-Specific Surface Water Quality Criteria[1]

Waterbody	Starting Location	Ending Location	Substances	AAC (Maximum) (µg/l)	AAC Conversion Factors	CAC (4-Day Average) (µg/l)	CAC Conversion Factors
Richland Creek	The outfall of the Princeton POTW	The confluence of Richland Creek with McCarty Ditch	Copper (Dissolved)	$WER^{[2]}(e^{(0.9422[\ln(\text{hardness})]-1.4076)})$	0.960	$WER^{[2]}(e^{(0.8545[\ln(\text{hardness})]-1.4097)})$	0.960
			Cyanide (Free)	45.8		10.7	
			Lead (Dissolved)	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-1.2554)})$	1.46203-[(ln hardness)(0.145712)]	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-3.7561)})$	1.46203-[(ln hardness)(0.145712)]
Wabash River	The outfall of the Bluegrass Mills Holdings Company (river mile 387)	A point two (2) miles downstream	Cyanide (Free)	45.8		10.7	
Wabash River	The outfall of Eli-Lilly and Company (river mile 309)	A point two (2) miles downstream	Copper (Dissolved)	$WER^{[2]}(e^{(0.9422[\ln(\text{hardness})]-1.4076)})$	0.960	$WER^{[2]}(e^{(0.8545[\ln(\text{hardness})]-1.4097)})$	0.960
Wabash River	The outfall of Eli-Lilly and Company (river mile 236)	A point two (2) miles downstream	Lead (Dissolved)	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-1.2554)})$	1.46203-[(ln hardness)(0.145712)]	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-3.7561)})$	1.46203-[(ln hardness)(0.145712)]
West Fork White River	The outfall of the Belmont POTW (river mile 227)	The Marion-Johnson County line (river mile 220)	Copper (Dissolved)	$WER^{[2]}(e^{(0.9422[\ln(\text{hardness})]-1.4076)})$	0.960	$WER^{[2]}(e^{(0.8545[\ln(\text{hardness})]-1.4097)})$	0.960
			Cyanide (Free)	45.8		10.7	
			Lead (Dissolved)	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-1.2554)})$	1.46203-[(ln hardness)(0.145712)]	$WER^{[2]}(e^{(1.273[\ln(\text{hardness})]-3.7561)})$	1.46203-[(ln hardness)(0.145712)]

[1] The AAC and CAC columns of this table contain hardness-based total recoverable metals criteria for copper and lead. The criterion for the dissolved metal is calculated by multiplying the appropriate conversion factor by the AAC or CAC. This dissolved AAC or CAC shall be rounded to two (2) significant digits, except when the criteria are used as intermediate values in a calculation, such as in the calculation of water quality-based effluent limitations (WQBELs).

[2] A value of one (1) shall be used for the water-effect ratio (WER) unless an alternate value is established under this section.
(Water Pollution Control Division; 327 IAC 2-1-8.9; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2058; errata filed Jul 6, 2005, 3:12 p.m.: 28 IR 3582; filed Mar 21, 2007, 2:51 p.m.: 20070418-IR-327060181FRA)

327 IAC 2-1-9 Definitions

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-11-2-265; IC 13-18-3-2; IC 13-18-4

Sec. 9. In addition to the definitions contained in IC 13-11-2, the following definitions apply throughout this title:
(1) "Acceptable daily intake" or "ADI" represents the maximum amount of a substance that if ingested daily for a lifetime results in no adverse effects to humans.
(2) "Acute aquatic criterion" or "AAC" means the highest concentration of chemical that if met instream will protect the aquatic life present from mortality or other irreversible effects due to short term exposure. The AAC is equal to one-half (1/2) the final acute value (FAV).
(3) "Acute toxicity" means concurrent and delayed adverse effects that result from an acute exposure and occur within any short observation period, which begins when the exposure begins, may extend beyond the exposure period, and usually does not constitute a substantial portion of the life span of the organism.
(4) "Adverse effect" means any deleterious effect to organisms due to exposure to a substance. The term includes effects that are or may become debilitating, harmful, or toxic to the normal functions of the organism, but does not include nonharmful effects, such as tissue discoloration alone or the induction of enzymes involved in the metabolism of the substance.
(5) "Bioaccumulative chemical of concern" or "BCC" refers to the following substances:

Table 9-1
Bioaccumulative Chemicals of Concern

CAS Number	Substance
309002	Aldrin
57749	Chlordane
72548	4,4'-DDD; p,p'-DDD; 4,4'-TDE; p,p'-TDE
72559	4,4'-DDE; p,p'-DDE
50293	4,4'-DDT; p,p'-DDT
60571	Dieldrin
72208	Endrin
76448	Heptachlor
118741	Hexachlorobenzene
87683	Hexachlorobutadiene; hexachloro-1,3-butadiene
608731	Hexachlorocyclohexanes; BHCs
319846	alpha-Hexachlorocyclohexane; alpha-BHC
319857	beta-Hexachlorocyclohexane; beta-BHC
319868	delta-Hexachlorocyclohexane; delta-BHC
58899	Lindane; gamma-Hexachlorocyclohexane; gamma-BHC
7439976	Mercury
2385855	Mirex
29082744	Octachlorostyrene
1336363	PCBs; polychlorinated biphenyls
608935	Pentachlorobenzene
39801144	Photomirex
1746016	2,3,7,8-TCDD; dioxin

634662	1,2,3,4-Tetrachlorobenzene
95943	1,2,4,5-Tetrachlorobenzene
8001352	Toxaphene

(6) "Bioconcentration" means the net accumulation of a substance by an aquatic organism as a result of uptake directly from the ambient water through gill membranes or other external body surfaces.
(7) "Bioconcentration factor" or "BCF" means the ratio (in liters per kilogram) of a substance's concentration in tissue of an aquatic organism to its concentration in the ambient water, in situations where the organism is exposed through the water only and the ratio does not change substantially over time.
(8) "Carcinogen" means a chemical that causes an increased incidence of benign or malignant neoplasms, or a substantial decrease in the latency period between exposure and onset of neoplasms through oral or dermal exposure, or through inhalation exposure when the cancer occurs at nonrespiratory sites in at least one (1) mammalian species or man through epidemiological studies or clinical studies, or both.
(9) "Chronic aquatic criterion" or "CAC" means the highest concentration of chemical that if met instream will protect the aquatic life present from toxic effects due to long term exposure, for example, adverse effects on growth and reproduction.
(10) "Chronic toxicity" means concurrent and delayed adverse effects that occur only as a result of a chronic exposure.
(11) "Coliform bacteria" means all the aerobic and facultatively anaerobic, gram-negative, nonsporeforming bacilli that produce acid and gas from the fermentation of lactose.
(12) "Community" means a general collective term to describe the varieties of aquatic species and associated organisms living together in a waterbody.
(13) "Criteria conversion factors" refers to the conversion factors that are multiplied by acute and chronic aquatic criteria developed using toxicological data in the form of total recoverable metal to express the criteria in the form of dissolved metal. The conversion factor for a particular metal and criterion is the fraction of the metal corresponding to an estimate of the percent of the total recoverable metal that was dissolved in the aquatic toxicity tests that were most important in the derivation of the criterion for the metal.
(14) "Criterion" means a definite numerical value or narrative statement promulgated by the environmental rules board to maintain or enhance water quality to provide for and fully protect designated uses of the waters of the state.
(15) "Discharge-induced mixing" or "DIM" means mixing initiated by the use of submerged, high rate diffuser outfall structures (or the functional equivalent) that provide turbulent initial mixing and will minimize organism exposure time.
(16) "Effluent" means a wastewater discharge from a point source to the waters of the state.
(17) "Endangered or threatened species" includes those species that are listed as endangered or threatened under Section 4 of the Endangered Species Act (ESA) except as specifically provided for in 327 IAC 2-1.3.
(18) "ESA" means the Endangered Species Act (ESA), 16 U.S.C. 1531 et seq.
(19) "Final acute value" or "FAV" means:

(A) a calculated estimate of the concentration of a test material such that ninety-five percent (95%) of the genera (with which acceptable acute toxicity tests have been conducted on the material) have higher genus mean acute values (GMAVs); or

(B) the species mean acute value (SMAV) of an important or critical species, if the SMAV is lower than the calculated estimate.

(20) "Full body contact" means direct contact with the water to the point of complete submergence.
(21) "Genus mean acute value" or "GMAV" means the geometric mean of the SMAVs for the genus.
(22) "Genus mean chronic value" or "GMCV" means the geometric mean of the SMCVs for the genus.
(23) "Geometric mean" means the Nth root of the product of N quantities. Alternatively, the geometric mean can be calculated by adding the logarithms of the N numbers, dividing the sum by N, and taking the antilog of the quotient.
(24) "Great Lakes system" has the meaning set forth in 327 IAC 2-1.5-2(44).
(25) "Ground water" means water located below the ground surface in interconnected voids and pore spaces in the zone of saturation.
(26) "Human life cycle safe concentration" or "HLSC" is the highest concentration of a chemical to which a human is exposed continuously for a lifetime and that results in no observable adverse effects to a human and its progeny.
(27) "Indigenous" means, generally, an organism native to and growing and reproducing in a particular region. For purposes of this rule, the term also includes historically nonnative species introduced by the Indiana department of natural resources

as part of a program of wildlife management whether such species reproduce or not.
(28) "LC_{50}" refers to a statistically or graphically estimated concentration that is expected to be lethal to fifty percent (50%) of a group of organisms under specified conditions.
(29) "LD_{50}" means the median lethal dose of a chemical, which is the amount of a test material per body weight that, when administered, results in fifty percent (50%) mortality to the organisms during a specified time period.
(30) "Life cycle safe concentration" means the highest concentration of a chemical to which an organism is exposed continuously for a lifetime and that results in no observable adverse effects to the organism and its progeny.
(31) "Lowest observable adverse effect level" or "LOAEL" means the lowest tested dose or concentration of a substance that resulted in an observed adverse effect in exposed test organisms when all higher doses or concentrations resulted in the same or more severe effects.
(32) "MATC" means the maximum acceptable toxicant concentration obtained by calculating the geometric mean of the lower and upper chronic limits from a chronic test. A lower chronic limit is the highest tested concentration that did not cause the occurrence of a specified adverse effect. An upper chronic limit is the lowest tested concentration that did cause the occurrence of a specified adverse effect and above which all tested concentrations caused such an occurrence.
(33) "Maximum contaminant level" or "MCL" means the maximum permissible level of a contaminant in water that is delivered to the free-flowing outlet of the ultimate user of a public water system.
(34) "Mixing zone" means an area contiguous to a discharge where the discharged wastewater mixes with the receiving water. Where the quality of the effluent is lower than that of the receiving water, it may not be possible to attain within the mixing zone all beneficial uses attained outside the zone. The mixing zone should not be considered a place where effluents are treated.
(35) "Nonthreshold mechanism" means a process that results in some possible effect no matter what level is present. There is no level that may not produce an effect.
(36) "No observed adverse effect level" or "NOAEL" is the highest tested dose or concentration of a substance that resulted in no observed adverse effect in exposed test organisms where higher doses or concentrations resulted in an adverse effect.
(37) "Occur at the site" includes the species, genera, families, orders, classes, and phyla that:

(A) are usually present at the site;
(B) are present at the site only seasonally due to migration;
(C) are present intermittently because they periodically return to or extend their ranges into the site;
(D) were present at the site in the past, are not currently present at the site due to degraded conditions, and are expected to return to the site when conditions improve; or
(E) are present in nearby bodies of water, are not currently present at the site due to degraded conditions, and are expected to be present at the site when conditions improve.

The taxa that occur at the site cannot be determined merely by sampling downstream and upstream of the site at one (1) point in time. The term does not include taxa that were once present at the site but cannot exist at the site now due to permanent physical alteration of the habitat at the site, for example, alterations resulting from dams.
(38) "Octanol-water partition coefficient" or "K_{OW}" means the ratio of the concentration of a substance in the n-octanol phase to its concentration in the aqueous phase in an equilibrated two-phase octanol-water system. For log K_{OW}, the log of the octanol-water partition coefficient is a base ten (10) logarithm.
(39) "Outstanding national resource water" means a water designated as such by the general assembly after recommendations by the environmental rules board and the environmental quality service council under IC 13-18-3-2(o) and IC 13-18-3-2(p). The designation must describe the quality of the outstanding national resource water to serve as the benchmark of the water quality that shall be maintained and protected. Waters that may be considered for designation as outstanding national resource waters include waterbodies that are recognized as:

(A) important because of protection through official action, such as:
(i) federal or state law;
(ii) presidential or secretarial action;
(iii) international treaty; or
(iv) interstate compact;
(B) having exceptional recreational significance;
(C) having exceptional ecological significance;

(D) having other special environmental, recreational, or ecological attributes; or

(E) waters with respect to which designation as an outstanding national resource water is reasonably necessary for protection of other waterbodies designated as outstanding national resource waters.

(40) "Outstanding state resource water" means any water designated as such by the environmental rules board regardless of when the designation occurred or occurs. Waters that may be considered for designation as outstanding state resource waters include waterbodies that have unique or special ecological, recreational, or aesthetic significance.

(41) "Persistent substance" means a chemical that is long-lived in soil, aquatic environments, and animal and plant tissues and is not readily broken down by biological or physiochemical processes.

(42) "Point source" means the following:

(A) Any discernible, confined, and discrete conveyance, including, but not limited to, any of the following from which pollutants are or may be discharged:

(i) Pipe.
(ii) Ditch.
(iii) Channel.
(iv) Tunnel.
(v) Conduit.
(vi) Well.
(vii) Discrete fissure.
(viii) Container.
(ix) Rolling stock.
(x) Concentrated animal feeding operation.
(xi) Landfill leachate collection system.
(xii) Vessel.
(xiii) Other floating craft.

(B) The term does not include return flows from irrigated agriculture or agricultural storm run-off. See 327 IAC 5-2-1.8 for other exclusions.

(43) "Policy" means a statement of administrative practice or decision making guidelines to be followed or implemented to the maximum extent feasible with respect to an identified problematic situation but to be less than strictly enforceable in contrast to a standard or rule of law.

(44) "Public water supply" means a source of water for a public water system.

(45) "Public water system" has the meaning set forth in 42 U.S.C. 300f.

(46) "Risk" means the probability that a substance, when released to the environment, will cause an adverse effect in exposed humans or other living organisms.

(47) "Risk assessment" means the analytical process used to determine the level of risk.

(48) "Species mean acute value" or "SMAV" means the geometric mean of the results of all acceptable flow-through acute toxicity tests (for which the concentrations of the test material were measured) with the most sensitive tested life stage of the species. For a species for which no such result is available for the most sensitive tested life stage, the SMAV is the geometric mean of the results of all acceptable acute toxicity tests with the most sensitive tested life stage.

(49) "Species mean chronic value" or "SMCV" means the geometric mean of the results of all acceptable life-cycle and partial life-cycle toxicity tests with the species; for a species of fish for which no such result is available, the SMCV is the geometric mean of all acceptable early life-stage tests.

(50) "Steady-state" means an equilibrium condition has been achieved in the body burden of a substance in an organism. Steady-state is assumed when the rate of loss of a substance matches its rate of uptake.

(51) "Surface waters of the state" or "surface water" has the meaning set forth in IC 13-11-2-265, except that the term does not include underground waters with the exception of the following:

(A) The underground portion of the Lost River and its underground tributaries.

(B) Any other underground stream that supports fish or other higher aquatic life forms and its underground tributaries.

(52) "Terrestrial life cycle safe concentration" or "TLSC" is the highest concentration of chemical to which wildlife is exposed continuously for a lifetime and that results in no observable adverse effects to wildlife and its progeny.

(53) "Threshold mechanism" means a process that results in some effect if a certain level is exceeded, but that produces no

effect below that level.

(54) "Toxic substances" means substances that are or may become harmful to:

(A) aquatic life;

(B) humans;

(C) other animals;

(D) plants; or

(E) food chains;

when present in sufficient concentrations or combinations. Toxic substances include, but are not limited to, those pollutants identified as toxic under Section 307(a)(1) of the Clean Water Act.

(55) "Variance" means a deviation from a water quality standard.

(56) "Water-effect ratio" or "WER" means the ratio that is computed as a specific pollutant's acute or chronic toxicity endpoint measured in water from the site covered by the criterion, divided by the respective acute or chronic toxicity endpoint in laboratory dilution water.

(57) "Waters of the state" has the meaning set forth in IC 13-11-2-265.

(58) "Water use designations" means a use of the waters of the state as established by this rule, including, but not limited to, the following:

(A) Industrial water supply.

(B) Agricultural use.

(C) Public water supply.

(D) Full body contact.

(E) Aquatic life.

(F) Limited use.

(59) "Well-balanced aquatic community" means an aquatic community that:

(A) is diverse in species composition;

(B) contains several different trophic levels; and

(C) is not composed mainly of pollution tolerant species.

(60) "Zone of initial dilution" or "ZID" means the area of the receiving water directly after the end of the pipe where an instantaneous volume of water gives up to a one-to-one (1:1) dilution of the discharge.

(Water Pollution Control Division; 327 IAC 2-1-9; filed Sep 24, 1987, 3:00 p.m.: 11 IR 584; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1041; errata filed Jul 6, 1990, 5:00 p.m.: 13 IR 2004; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1360; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2060; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA; errata filed Sep 22, 2017, 11:46 a.m.: 20171004-IR-327170437ACA)

327 IAC 2-1-10 Proposals for limited use designation or outstanding state resource water classification

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3

Affected: IC 13-18-3-2; IC 13-18-4

Sec. 10. (a) Except as provided in subsection (c), a person who wishes to propose that a particular body of the waters of the state be considered by the commissioner for limited use designation must submit to the commissioner a written proposal identifying the waterbody, stating the rationale for the proposal, and including any other supporting documentation. After receiving the commissioner's recommendation on a proposal, if the board determines that a waterbody is appropriate for redesignation for limited use it will direct the commissioner to initiate a rulemaking to include the waterbody as a limited use water under section 11(a) of this rule.

(b) The commissioner will consider the factors listed in subdivisions (1) and (2) in making recommendations to the board with regard to proposals for the redesignation of a waterbody for limited use. These factors are listed as guidelines to provide some insight into the way the commissioner's recommendations may be made but are not intended to be all encompassing. The commissioner's recommendations generally will be case-by-case determinations based on professional judgment after on-site evaluations. The commissioner will consider factors relating to the following:

(1) Limited use designations such as any of the following:

(A) The waterway has a Q(7),(10) low flow upstream of any existing or proposed discharge of one-tenth (0.1) cubic

feet per second or less.

(B) Suitable habitat to support a well-balanced fish community is severely limited or absent.

(C) The waterway is affected by irreversible conditions, natural or man-induced, that:

(i) came into existence before January 1, 1983;

(ii) are not practicably controllable; and

(iii) prevent establishment of a well-balanced fish community.

(D) The waterbody has no unique or exceptional features.

(E) Potential or existing uses made of the waterbody by people in the immediate area would not be adversely affected by a limited use designation.

(2) The waterbody has been evaluated by a use attainability analysis.

(c) A person seeking to obtain a CSO wet weather limited use subcategory designation shall do so in accordance with section 3.1 of this rule.

(d) All waters that are designated as a limited use water under section 11(a) of this rule must be evaluated for restoration and upgrading at each triennial review of this rule.

(e) Outstanding state resource water classifications shall be in accordance with IC 13-18-3-2(f) through IC 13-18-3-2(j) and may include, but are not limited to, factors such as any of the following:

(1) The presence of any of the following:

(A) A unique or exceptional habitat or species in the waterbody.

(B) A rare or endangered species in the waterbody.

(C) Exceptional aesthetic quality in the immediate environs of the waterbody.

(2) The waterbody:

(A) is within the boundaries of or flows through a designated natural area, nature preserve, or state or national park or forest;

(B) supports an excellent sports fishery; or

(C) possesses exceptional quality.

(3) Intensive recreational use is made of the waterbody.

(4) Designation as a natural, scenic, or recreational waterbody by the Indiana department of natural resources.

(Water Pollution Control Division; 327 IAC 2-1-10; filed Sep 24, 1987, 3:00 p.m.: 11 IR 585; filed Sep 6, 2007, 12:25 p.m.: 20071003-IR-327050218FRA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)

327 IAC 2-1-11 Limited use and outstanding state resource waters

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3

Affected: IC 13-18-4

Sec. 11. (a) The following waters of the state are designated for limited use pursuant to section 3(a)(5) of this rule:

(1) Prides Creek in Pike County upstream from its confluence with White River.

(2) Redkey Run and Halfway Creek in Jay County from the Redkey STP to two (2) miles downstream.

(3) Kentland STP receiving stream along NYC railroad upstream from its confluence with Montgomery Ditch in Newton County.

(4) Buck Creek in Sullivan County from the Sullivan South STP to two and one-fourth (2.25) miles downstream.

(5) Arbogast Ditch upstream from its confluence with West Fork of White River in Randolph County.

(6) Jefferson Ditch in Grant County from the Upland STP to its confluence with Lake Branch.

(7) Vinson Drain and Mud Creek in Madison County from the Summitville STP to the confluence of Mud Creek and Star Creek.

(8) Ackerman Branch and Mill Creek in Dubois County to the confluence of Mill Creek and Little Creek.

(9) North Prong of Stotts Creek in Johnson County from the Bargersville STP to one and one-fourth (1.25) miles downstream.

(10) An unnamed tributary of Four Mile Creek in Greene County from the Lyons STP to its confluence with Four Mile Creek.

(11) An unnamed stream in Dubois County, which is the outlet of Huntingburg City Lake, from the City Lake Dam

downstream to its confluence with Ell Creek.

(12) Leavell Ditch in Tipton County upstream from its confluence with Buck Creek.

(13) Buck Creek in Tipton County upstream from its confluence with Cicero Creek.

(14) Schlatter Ditch which becomes Bacon Prairie Creek in Tipton County upstream from a point one (1) mile upstream of the confluence of Bacon Prairie Creek and Cicero Creek.

(15) An unnamed ditch in Posey County flowing north out of the town of Cynthiana along the Chicago and Eastern Illinois Railroad then west along the Posey-Gibson County Line to its confluence with Black River.

(16) Laughery Creek in Ripley county from the Napoleon STP to a point three (3.0) miles downstream. (County Road 300 West Extended.)

(17) An unnamed tributary and Hurricane Creek in Gibson County from the Haubstadt STP to the confluence of Hurricane Creek and the West Fork of Pigeon Creek.

(18) Plasterers Creek in Martin County from the Loogootee STP downstream to the confluence with Friends Creek.

(19) Montgomery Ditch and Black River in Gibson County from the Owensville STP to the Antioch Road Bridge.

(20) Brewer Ditch in Johnson County from the Whiteland STP to the County Road 250 N bridge.

(21) An unnamed tributary of Little Otter Creek in Ripley County from the Holton STP to its confluence with Little Otter Creek.

(22) The Silverthorn Branch of Wildcat Creek in Clinton County from the Rossville STP to its confluence with the Middle Fork of Wildcat Creek.

(23) An unnamed tributary of the West Fork of White River in Randolph County from the Farmland STP to its confluence with the West Fork of White River.

(24) Hawk Run and Blackhawk Creek in Dubois and Spencer counties from the Schuler Packing Company discharge downstream to the Anderson River.

(25) Spring Creek in Vigo County from the Hercules, Inc., outfall downstream to the Wabash River.

(26) Little Buck Creek in Henry County to its confluence with Hillside Brook.

(27) Francis Dutro Ditch in Blackford County from the Blackford Canning Company discharge downstream to its confluence with Prairie Creek.

(28) The unnamed ditch receiving the Sperry Rubber Company discharge and Richland Creek in Franklin County from the confluence of the unnamed tributary downstream to the Whitewater River.

(29) Eight Mile Creek in Wells County to the confluence of Eight Mile Creek and Maple Creek.

(30) Hoffman Ditch in St. Joseph County upstream from its confluence with Yellow River.

(b) The following waters of the state in addition to the waters listed at 327 IAC 2-1.3-3(d) and 327 IAC 2-1.5-19(b) are classified as outstanding state resource waters:

(1) Big Pine Creek in Warren County downstream of the State Road 55 bridge near the town of Pine Village to its confluence with the Wabash River.

(2) Mud Pine Creek in Warren County from the bridge on the County Road between Brisco and Rainsville to its confluence with Big Pine Creek.

(3) Fall Creek in Warren County from the old C.R. 119 bridge in the NW quarter of Section 21, Township 22N, Range 8W downstream to its confluence with Big Pine Creek.

(4) Indian Creek in Montgomery County from the County Road 650 West bridge downstream to its confluence with Sugar Creek.

(5) Clifty Creek in Montgomery County within the boundaries of Pine Hills Nature Preserve.

(6) Bear Creek in Fountain County from the bridge on County Road 450 North to its confluence with the Wabash River.

(7) Rattlesnake Creek in Fountain County from the bridge on County Road 450 North to its confluence with Bear Creek.

(8) The small tributary to Bear Creek in Fountain County within the Portland Arch Nature Preserve which enters Bear Creek at the sharpest bend and has formed the small natural bridge called Portland Arch.

(9) Blue River from the confluence of the West and Middle Forks of the Blue River in Washington County downstream to its confluence with the Ohio River.

(10) The South Fork of Blue River in Washington County from the Horner's Chapel Road bridge downstream to its confluence with Blue River.

(11) Lost River and all surface and underground tributaries upstream from the Orangeville Rise (T2N, R1W, Section 6) and

the Rise of Lost River (T2N, R1W, Section 7) and the mainstem of the Lost River from the Orangeville Rise downstream to its confluence with the East Fork of White River.

(Water Pollution Control Division; 327 IAC 2-1-11; filed Sep 24, 1987, 3:00 p.m.: 11 IR 585; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1362; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)

327 IAC 2-1-11.5 CSO wet weather limited use; designated waters *(Repealed)*

Sec. 11.5. *(Repealed by Water Pollution Control Division; filed Feb 21, 2022, 10:07 a.m.: 20220323-IR-327210164FRA)*

327 IAC 2-1-12 Incorporation by reference *(Repealed)*

Sec. 12. *(Repealed by Water Pollution Control Division; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1-13 Development of site-specific aquatic life criteria using the recalculation procedure

Authority: IC 13-14-8; IC 13-14-9; IC 13-18
Affected: IC 13-18-4

Sec. 13. (a) The definitions in section 9 of this rule and 327 IAC 2-1.5-2 and the following apply throughout this section:

(1) "Critical species" means a species:

(A) that is commercially or recreationally important at the site;

(B) that occurs at the site and is listed as threatened or endangered under Section 4 of the Endangered Species Act; or

(C) for which there is evidence that the loss of the species from the site is likely to cause an unacceptable impact on:

(i) a commercially or recreationally important species;

(ii) a threatened or endangered species;

(iii) the abundance of a variety of other species; or

(iv) the structure or function of the aquatic community.

(2) "Minimum data requirements" or "MDRs" means the minimum amount of toxicity data required under subsection (c) to develop a valid site-specific aquatic life criterion using the recalculation procedure. The initial MDRs for the recalculation procedure are listed in subsection (c).

(b) The recalculation procedure is intended to allow site-specific criteria to differ from the aquatic life criteria in this rule and 327 IAC 2-1.5. The site-specific criteria may be allowed if justified by demonstrated pertinent toxicological differences between the aquatic species that occur at the site and those that were used in the derivation of the criteria in this rule or 327 IAC 2-1.5. The recalculation procedure involves the recalculation of water quality criteria for a given site through the modification of the toxicity data set used to originally calculate the criteria. The process of modifying a toxicity data set for this procedure involves one (1) or more of the following steps:

(1) Correction of toxicity data in the criterion's data set.

(2) Addition of toxicity data to the criterion's data set.

(3) Deletion of toxicity data in the criterion's data set.

(c) Except as provided in subsection (g), the following MDRs must be available to calculate site-specific aquatic life criteria using the recalculation procedure:

(1) Results of acceptable acute or chronic tests with at least one (1) species of freshwater animal in at least eight (8) different families such that all of the following are included:

(A) The family Salmonidae in the class Osteichthyes.

(B) One (1) other family, preferably a commercially or recreationally important, warmwater species, in the class Osteichthyes, for example:

(i) bluegill; or

(ii) channel catfish.

(C) A third family in the phylum Chordata, for example:

(i) fish; or

(ii) amphibian.

(D) A planktonic crustacean, for example, a:

(i) cladoceran; or

(ii) copepod.

(E) A benthic crustacean, for example:

(i) ostracod;

(ii) isopod;

(iii) amphipod; or

(iv) crayfish.

(F) An insect, for example:

(i) mayfly;

(ii) dragonfly;

(iii) damselfly;

(iv) stonefly;

(v) caddisfly;

(vi) mosquito; or

(vii) midge.

(G) A family in a phylum other than Arthropoda or Chordata, for example:

(i) Rotifera;

(ii) Annelida; or

(iii) Mollusca.

(H) A family in any order of insect or any phylum not already represented.

(2) Acute-chronic ratios (ACRs) with at least one (1) species of aquatic animal in at least three (3) different families provided that of the three (3) species at least one (1) is:

(A) a fish;

(B) an invertebrate; and

(C) an acutely sensitive freshwater species.

(3) Results of at least one (1) acceptable test with a freshwater algae or vascular plant is desirable but not required for criterion derivation. If plants are among the aquatic organisms most sensitive to the material, results of a test with a plant in another phylum (division) should also be available.

(d) If a specific requirement in subsection (c) cannot be satisfied, after deletion of toxicity data described in subsection (e), because that kind of species does not occur at the site, toxicity data from a taxonomically similar sensitive species must be substituted in order to meet the MDRs. The following procedures, listed in order of preference, shall be used to substitute a taxonomically similar species in order to meet the MDRs under subsection (c):

(1) If no species of the kind required occurs at the site, but a species in the same order does, the MDR can only be satisfied by toxicity data for a sensitive species that occurs at the site and is in that order.

(2) If no species in the order occurs at the site, but a sensitive species in the class does, the MDR can only be satisfied by toxicity data for a species that occurs at the site and is in that class.

(3) If no species in the same class occurs at the site, but a species in the phylum does, the MDR can only be satisfied by toxicity data for a sensitive species in that phylum.

(4) If no species in the same phylum occurs at the site, toxicity data from any sensitive species that occurs at the site and is not used to satisfy a different MDR can be used to satisfy the MDR.

(e) The following procedures in this subsection shall be used to develop the toxicity data set that must be used to recalculate a site-specific aquatic life water quality criterion:

(1) For each criterion to be recalculated that meets the MDRs in subsection (c), the original data set that was used to develop the criterion must first be corrected for any errors. Corrections to the data set involve modifying or removing toxicity data, SMAVs, GMAVs, or ACRs that have been found to be incorrect or in some way inappropriate for inclusion in the criterion's data set. Only corrections approved by the commissioner may be used.

(2) After corrections to the original data set have been made, additions to the data set must be made according to the following:

(A) Additions to the data set include adding new toxicity data:

(i) for species that have been determined by the commissioner to occur at the site but are not represented by the original data set; and

(ii) developed to meet the MDRs.

(B) Toxicity data added to a criterion's data set must meet the minimum data quality requirements in 327 IAC 2-1.5-11(c), 327 IAC 2-1.5-11(e)(3) through 2-1.5-11(e)(5), and 327 IAC 2-1.5-11(g) and be approved by the commissioner.

(C) Selective additions to the toxicity data set may not be made. The addition of toxicity data from resistant or insensitive species shall not be allowed. Only the addition of pertinent toxicity data approved by the commissioner shall be included in the calculation of the site-specific criterion.

(3) After corrections and additions to the data set have been made, deletions of toxicity data for species that have been determined by the commissioner not to occur at the site may be made subject to the following:

(A) Comprehensive information on which species occur at the site must be available before deletions from the data set will be permitted.

(B) A species may not be deleted from the data set based on incomplete information on that species.

(C) Acceptable pertinent toxicological data must be available for at least one (1) species in each class of aquatic plants, invertebrates, amphibians, and fish that contains a species that is a critical species at the site.

(D) For each aquatic plant, invertebrate, amphibian, and fish species that occurs at the site and is listed as threatened or endangered under Section 4 of the Endangered Species Act, data must be available or generated for an acceptable surrogate species. Data for each surrogate species must be used as if they are data for species that occur at the site.

(4) To generate the site-specific data set, species shall be deleted from the original data set using the following procedures:

(A) Once corrections and additions have been made to the original data set, species in the data set are grouped taxonomically by:

(i) phylum;

(ii) class;

(iii) order;

(iv) family;

(v) genus; and

(vi) species.

(B) All species that satisfy the definition of occur at the site, including any toxicity data for species that are surrogates of threatened or endangered species that occur at the site, must be included in the final site-specific data set.

(C) Circle each species that satisfies the definition of occur at the site including any surrogates of threatened or endangered species.

(D) The following procedures must be used to determine which of the remaining species from the original toxicity data set must be kept and which must be deleted:

(i) Use the following STEPS to determine which of the remaining species must be deleted and which must not be deleted:

STEP 1. Does the genus occur at the site?

If "No", go to STEP 2.

If "Yes", is there one (1) or more species in the genus that occurs at the site but is not in the data set?

If "No", delete the uncircled species*.

If "Yes", retain the uncircled species*.

STEP 2. Does the family occur at the site?

If "No", go to STEP 3.

If "Yes", is there one (1) or more genera in the family that occurs at the site but is not in the data set?

If "No", delete the uncircled species*.

If "Yes", retain the uncircled species*.

STEP 3. Does the order occur at the site?

If "No", go to STEP 4.
If "Yes", does the data set contain a circled species that is in the same order?
If "No", retain the uncircled species*.
If "Yes", delete the uncircled species*.

STEP 4. Does the class occur at the site?
If "No", go to STEP 5.
If "Yes", does the data set contain a circled species that is in the same class?
If "No", retain the uncircled species*.
If "Yes", delete the uncircled species*.

STEP 5. Does the phylum occur at the site?
If "No", delete the uncircled species*.
If "Yes", does the data set contain a circled species that is in the same phylum?
If "No", retain the uncircled species*.
If "Yes", delete the species*.

* = Continue the deletion process by starting at STEP 1 for any remaining species unless all species in the data set have been considered. The species that are circled and those that are retained constitute the site-specific data set.

(ii) This deletion process must be interpreted to ensure the following:

(AA) Each species that occurs both in the original data set and at the site also occurs in the site-specific data set.

(BB) Each species that occurs at the site but does not occur in the original data set is represented in the site-specific data set by all species in the original data set that are in the same genus.

(CC) Each genus that occurs at the site but does not occur in the original data set is represented in the site-specific data set by all genera in the original data set that are in the same family.

(DD) Each order, class, and phylum that occurs both in the original data set and at the site is represented in the site-specific data set by the one (1) or more species in the original data set that is most closely related to a species that occurs at the site.

(E) After deletion of species that do not occur at the site, if the data remaining in the site-specific data set do not meet the MDRs, additional toxicity testing shall be performed using acceptable procedures.

(F) Chronic tests do not have to be conducted because the original final acute-chronic ratio (FACR) may be used in the derivation of the site-specific final chronic value (FCV). If ACRs are available or are generated so that the chronic MDRs are satisfied using only species that occur at the site, a site-specific FACR may be derived and used in place of the original FACR.

(f) The following procedures in this subsection must be used to calculate the site-specific final acute value (FAV), the acute aquatic criterion (AAC) or criterion maximum concentration (CMC), and the chronic aquatic criterion (CAC) or criterion continuous concentration (CCC) using the site-specific data set developed using the procedures in subsection (e):

(1) The FAV and AAC or CMC must be calculated using the procedures in this subdivision. If the minimum toxicity data set requirements in subsection (c) are met following addition or deletion of one (1) or more sensitive species representative at the site, the site-specific FAV must be recalculated using all the available representative resident species toxicity data and the following procedures:

(A) For each genus for which one (1) or more species mean acute value (SMAV) is available, calculate a genus mean acute value (GMAV) first.

(B) Arrange in order all GMAVs from high to low.

(C) Assign a rank (R) to the GMAV from "1" for the lowest to "n" for the highest.

(D) Calculate the cumulative probability (P) for each GMAV rank ((R) / (n +1)).

(E) Select the four (4) lowest GMAVs that have cumulative probability closest to five-hundredths (0.05).

(F) Using the selected GMAVs and the cumulative probabilities, calculate the following:

(i) $FAV = e^{A}$

(ii) $A = S(\sqrt{0.05}) + L$

$$\text{(iii)}\ L = \frac{\sum(\ln GMAV) - S(\sum(\sqrt{P}))}{4}$$

$$\text{(iv)}\ S^2 = \frac{\sum((\ln GMAV)^2) - \frac{(\sum(\ln GMAV))^2}{4}}{\sum(P) - \frac{(\sum(\sqrt{P}))^2}{4}}$$

Where: e^A = natural logarithm (ln) of A
GMAV = genus mean acute value
S^2 = variance (S = standard deviation)
P = cumulative probability for each GMAV at rank (R)/(n + 1)
$\sum$ = summation

(G) If the toxicity data show that acute toxicity for a substance is related to a water characteristic such as hardness, then a final acute equation must be calculated using the procedures in 327 IAC 2-1.5-11(f).

(H) To derive the site-specific AAC or CMC, the site-specific FAV is divided by two (2).

(2) The CAC or CCC shall be calculated using one (1) of the following procedures:

(A) The site-specific FAV will be divided by the FACR calculated as the geometric mean of the ACRs for a toxicant available in the original toxicity data set as well as new ACRs derived from acceptable aquatic toxicity tests. The geometric mean of the ACRs will be calculated from ACRs that do not differ by a factor of ten (10) from all the freshwater aquatic species. This will also include the ACRs from coldwater aquatic organisms even if they were deleted from the original data set as being not representative of the site. The site-specific CAC or CCC shall be calculated as follows:

$$\text{Site-specific CAC or CCC} = \frac{\text{Site-specific FAV}}{\text{FACR}}$$

(B) If chronic toxicity data are available for at least eight (8) families as defined in subsection (c), a CAC or CCC can be derived in the same manner as the FAV by substituting:

(i) CAC or CCC for FAV;
(ii) chronic for acute;
(iii) maximum acceptable toxicant concentration for LC_{50};
(iv) species mean chronic value for SMAV; and
(v) genus mean chronic value for GMAV.

(C) If the toxicity data show that chronic toxicity for a substance is related to a water characteristic such as hardness, then a final chronic equation must be calculated using the procedures in 327 IAC 2-1.5-11(h).

(3) The site-specific FAV must be divided by the geometric mean of the ACRs for a toxicant. The geometric mean of the ACRs will be calculated from ACRs that do not differ by a factor of ten (10) from all the freshwater aquatic species. A minimum of three (3) ACRs must be available from three (3) species in three (3) different families, including a fish, an invertebrate, and an acutely sensitive freshwater species. This will also include the ACRs from coldwater aquatic organisms even if they were deleted from the original toxicity database in the recalculation of a site-specific criterion as not occurring at the site.

(4) The calculated FAV, AAC or CMC, and CAC or CCC must be lowered, if necessary, to:

(A) protect an aquatic plant, invertebrate, amphibian, or fish species that is a critical species at the site; and

(B) ensure that the criterion is not likely to jeopardize the continued existence of any endangered or threatened species listed under Section 4 of the Endangered Species Act or result in the destruction or adverse modification of such species' critical habitats.

(g) If the variety of aquatic invertebrates, amphibians, and fish is so limited that species in fewer than eight (8) families occur at the site, the following procedures must be used:

(1) For site-specific criteria that will be applicable outside the Great Lakes System, the following procedures must be used:

(A) Toxicity data must be available for at least one (1) species in each of the families that occurs at the site.

(B) The site-specific FAV shall be set equal to the lowest SMAV for the most sensitive aquatic species that occurs at the site.

(C) To derive the site-specific AAC, the site-specific FAV is divided by two (2).

(D) The site-specific CAC will be obtained as provided by subsection (f)(2) by dividing the site-specific FAV by the geometric mean ACR from all freshwater aquatic species or by a factor of eighteen (18) if no ACR is available from at least one (1) freshwater species.

(2) For site-specific criteria that will be applicable inside the Great Lakes System, Tier II values can be calculated using the site-specific data set developed in subsection (e) and the procedures in 327 IAC 2-1.5-12.

(Water Pollution Control Division; 327 IAC 2-1-13; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2065)

Rule 1.1. Waters Designated as Limited Use Under the CSO Wet Weather Limited Use Subcategory Designation

327 IAC 2-1.1-1	Water quality-based requirements for the CSO wet weather limited use subcategory designation
327 IAC 2-1.1-2	CWA Authority, Inc., CSO wet weather limited use; designated waters
327 IAC 2-1.1-3	City of Fort Wayne, CSO wet weather limited use; designated waters

327 IAC 2-1.1-1 Water quality-based requirements for the CSO wet weather limited use subcategory designation

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 1. The water quality-based requirements that apply to the combined sewer overflow (CSO) wet weather limited use subcategory designations in this rule are set forth in 327 IAC 2-1-3.1(h). *(Water Pollution Control Division; 327 IAC 2-1.1-1; filed Feb 21, 2022, 10:07 a.m.: 20220323-IR-327210164FRA)*

327 IAC 2-1.1-2 CWA Authority, Inc., CSO wet weather limited use; designated waters

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 2. (a) The following waters of the state are designated for limited use in CWA Authority, Inc.'s approved long term control plan (LTCP) for the city of Indianapolis pursuant to the CSO wet weather limited use subcategory established under 327 IAC 2-1-3(c):

(1) White River from 56th Street on the Indianapolis north side to Freedom (River Mile 146).

(2) Fall Creek from Keystone Avenue to the White River.

(3) Little Eagle Creek from Michigan Street to the confluence with Big Eagle Creek.

(4) Big Eagle Creek from the confluence with Little Eagle Creek to the White River.

(5) Pogues Run from 21st Street to the White River.

(6) Pleasant Run from Kitley Avenue to the White River.

(7) Bean Creek from Interstate 65 to Pleasant Run.

(b) The water quality-based requirements for the CSO wet weather limited use subcategory:

(1) are determined by the November 2017 approved LTCP for the combined sewer system; and

(2) require that CSO discharges that occur be consistent with the performance criteria contained in the approved LTCP that include:

(A) ninety-seven percent (97%) capture of typical year CSO volume and an annual average of two (2) typical year CSOs within the Fall Creek watershed; and

(B) ninety-five percent (95%) capture of typical year CSO volume and an annual average of four (4) typical year CSOs in watersheds other than the Fall Creek watershed.

(Water Pollution Control Division; 327 IAC 2-1.1-2; filed Feb 21, 2022, 10:07 a.m.: 20220323-IR-327210164FRA)

327 IAC 2-1.1-3 City of Fort Wayne, CSO wet weather limited use; designated waters

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 3. (a) The following waters of the state are designated for limited use in the city of Fort Wayne's approved LTCP and approved use attainability analysis (UAA) pursuant to the CSO wet weather limited use subcategory established under 327 IAC 2-1-3(c) and 327 IAC 2-1.5-5(c):

(1) St. Marys River (from its junction with Natural Drain #4 near Tillman Road to the confluence with the St. Joseph River).

(2) Natural Drain #4 (from CSO Outfall 054, near the intersection of Hollis Lane and Mercer Avenue, to its junction with the St. Marys River).

(3) St. Joseph River (from CSO Outfall 052, located immediately south of Coliseum Boulevard near N. Anthony Boulevard, to the confluence with the St. Marys River).

(4) Spy Run Creek (from CSO Outfall 036, located north of W. State Street along Eastbrook/Westbrook Drive, to its junction with the St. Marys River south of 4th Street).

(5) Baldwin Ditch (from CSO Outfalls 061 and 062, near the intersection of E. State Street and Barnhart Avenue, to its junction with the Maumee River near CSO Ponds 1 and 2).

(6) Harvester Drain (from CSO Outfall 064, near New Haven Avenue and South Coliseum Boulevard, to its junction with the Maumee River).

(7) Maumee River (from its origin, at the confluence of the St. Marys River and St. Joseph River in the city, to the boundary between the states of Indiana and Ohio).

(b) The water quality-based requirements for the CSO wet weather limited use subcategory:

(1) are determined by the December 2007 approved LTCP for the combined sewer system as updated by the modified Consent Decree, Case No. 2:07_cv_00445, entered by the United States District Court for the Northern District of Indiana; and

(2) require that CSO events that occur be consistent with the performance criteria contained in the approved LTCP, including its maximums of:

(A) one (1) annual, untreated CSO event per typical year to the St. Joseph River; and

(B) four (4) annual, untreated CSO events per typical year to waters other than the St. Joseph River.

(Water Pollution Control Division; 327 IAC 2-1.1-3; filed Feb 21, 2022, 10:07 a.m.: 20220323-IR-327210164FRA)

Rule 1.3. Antidegradation Standards and Implementation Procedures

327 IAC 2-1.3-1	Applicability of antidegradation standards and implementation procedures
327 IAC 2-1.3-2	Definitions
327 IAC 2-1.3-3	Antidegradation standards
327 IAC 2-1.3-4	Exemptions from the antidegradation demonstration requirements and the water quality improvement project or payment to the OSRW improvement fund requirements
327 IAC 2-1.3-5	Antidegradation demonstration
327 IAC 2-1.3-6	Commissioner's determination
327 IAC 2-1.3-7	Water quality improvement project or payment to the OSRW improvement fund

327 IAC 2-1.3-1 Applicability of antidegradation standards and implementation procedures

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18
Affected: IC 13-18-3; IC 13-18-4

Sec. 1. (a) The antidegradation standards established by section 3 of this rule apply to all surface waters of the state.

(b) The antidegradation implementation procedures established in sections 4 through 7 of this rule apply to a proposed new or increased loading of a regulated pollutant to surface waters of the state from a deliberate activity subject to the Clean Water Act, including a change in process or operation that will result in a significant lowering of water quality.

(c) The antidegradation implementation procedures for activities covered by an NPDES general permit authorized by the department apply according to the following:

(1) The department shall complete an antidegradation review of the NPDES general permits.
(2) After an antidegradation review of an NPDES general permit is conducted, activities covered by that NPDES general permit are not required to undergo an additional antidegradation review.

(Water Pollution Control Division; 327 IAC 2-1.3-1; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)

327 IAC 2-1.3-2 Definitions

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18-3
Affected: IC 13-11-2; IC 13-13-8; IC 13-18-3-2; IC 14-8-2-310; IC 14-22-34; IC 36-2-3.5; IC 36-3-1

Sec. 2. The following definitions apply throughout 327 IAC 2-1, this rule, and 327 IAC 2-1.5:
(1) "Approved alternate mixing zone volume for Lake Michigan" means the volume associated with an alternate mixing zone for Lake Michigan established according to 327 IAC 5-2-11.4(b)(6) and 327 IAC 5-2-11.4(b)(7).
(2) "Available loading capacity" is expressed as a regulated pollutant mass loading rate, per twenty-four (24) hour period, for the waterbody in that area where the water quality is proposed to be lowered, and means the difference between the total loading capacity and the used loading capacity.
(3) "Best available demonstrated control technology" or "BADCT" means wastewater treatment capable of meeting the technology-based effluent limit (TBEL) under 327 IAC 5-5-2 that represents the best cost-effective treatment technology that is readily available.
(4) "Best management practices" or "BMPs" means the following measures to prevent or reduce the pollution of surface waters of the state:
(A) Schedules of activities.
(B) Prohibitions of practice.
(C) Treatment requirements.
(D) Operation and maintenance procedures.
(E) Use of containment facilities.
(F) Other management practices.
BMPs may be employed to control events such as plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage resulting from manufacturing, commercial, mining, or silvicultural activities.
(5) "Bioaccumulation" means the net accumulation of a substance by an organism as a result of uptake from all environmental sources.
(6) "Bioaccumulation factor" or "BAF" means the ratio in liters per kilogram of the concentration of a substance in the tissue of an aquatic organism to its concentration in the ambient water in situations where:
(A) both the organism and its food are exposed; and
(B) the ratio does not change substantially over time.
(7) "Bioaccumulative chemical of concern" or "BCC" has the meaning set forth in 327 IAC 2-1-9 and 327 IAC 2-1.5-6.
(8) "Board" means the environmental rules board established under IC 13-13-8.
(9) "CERCLA" has the meaning set forth at IC 13-11-2-24.
(10) "Clean Water Act" or "CWA" has the meaning set forth at IC 13-11-2-29.
(11) "Combined sewer" means a sewer designed and employed to receive both of the following:
(A) Water-carried or liquid wastes.
(B) Storm or surface water.
(12) "Commissioner" has the meaning set forth at IC 13-11-2-35.
(13) "Criterion" means a definite numerical value or narrative statement promulgated by the board, to maintain or enhance water quality to provide for and fully protect designated uses of the surface waters of the state.
(14) "Degradation" means, for purposes of an antidegradation demonstration, the following:
(A) For an ONRW, any new or increased loading of a regulated pollutant, except for a short-term, temporary increase as described under section 4(a) of this rule.
(B) For an HQW, including an OSRW, but excluding an ONRW, any new or increased loading of a regulated pollutant, except as provided under section 4 of this rule, to a surface water of the state, that results in a significant lowering of water quality for that regulated pollutant.

(15) "Department" has the meaning set forth at IC 13-11-2-51.
(16) "Designated uses" means those uses specified in the water quality standards at:
(A) 327 IAC 2-1-3; and
(B) 327 IAC 2-1.5-5;
for each waterbody, whether or not they are being attained.
(17) "Draft permit" means a document prepared by the commissioner under 327 IAC 5-3-6 before the public comment period, indicating the commissioner's tentative decision to:
(A) issue or deny;
(B) modify;
(C) revoke and reissue;
(D) terminate; or
(E) reissue;
a permit.
(18) "Effluent" means a wastewater discharge from a point source to the surface waters of the state.
(19) "Effluent limitation" means any restriction established by the commissioner on:
(A) quantities;
(B) discharge rates; and
(C) concentrations;
of pollutants that are discharged, or will be discharged, from point sources into surface waters of the state.
(20) "Endangered or threatened species" means the following:
(A) Species and designated critical habitat listed as endangered or threatened under 50 CFR 17.11* and 50 CFR 17.12*.
(B) Species listed as state endangered by the Indiana department of natural resources under the following:
(i) 312 IAC 9-3-19.
(ii) 312 IAC 9-4-14.
(iii) 312 IAC 9-5-4.
(iv) 312 IAC 9-6-9.
(v) 312 IAC 9-9-4.
(C) State endangered or threatened species identified in the Natural Resources Commission Information Bulletin #2 as approved by the Indiana Natural Resources Commission.**
(21) "Existing uses" means those uses actually attained in the waterbody on or after November 28, 1975, whether or not they are included under 327 IAC 2-1-3 or 327 IAC 2-1.5-5.
(22) "Governmental entity" has the meaning set forth at IC 13-11-2-90.
(23) "Great Lakes" means the following in Indiana:
(A) Lake Erie.
(B) Lake Michigan.
(24) "High quality water" or "HQW" means a waterbody, including an ONRW or OSRW, where the quality of the surface water exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, on a pollutant by pollutant basis. The term includes any waterbody for which the pollutant has not been detected in:
(A) the water column; and
(B) nontransient aquatic organisms;
at levels that would indicate that a water quality criterion is not being met.
(25) "Indirect discharger" means a discharger introducing nondomestic waste pollutants into a POTW.
(26) "Lake Michigan" means the Indiana portion of the open waters of Lake Michigan.
(27) "Legislative body" means any of the following:
(A) For a county not subject to IC 36-2-3.5 or IC 36-3-1, a board of county commissioners.
(B) For a county subject to IC 36-2-3.5, a county council.
(C) For a consolidated city or a county having a consolidated city, a city council.
(D) For a city other than a consolidated city, a common council.
(E) For a town, a town council.

(F) For a township, a township board.

(28) "Mixing zone" means an area contiguous to a discharge, where the discharge mixes with the receiving water or waters. Where the quality of the effluent is lower than that of the receiving water, it may not be possible to attain all designated uses within the mixing zone that are attained outside the zone. The mixing zone should not be considered a place where effluents are treated.

(29) "National Pollutant Discharge Elimination System" or "NPDES" means the national program for:

(A) issuing;
(B) modifying;
(C) revoking and reissuing;
(D) terminating;
(E) denying;
(F) monitoring; and
(G) enforcing;

permits for the discharge of pollutants from point sources, and imposing and enforcing pretreatment requirements by U.S. EPA or an authorized state under Sections 307, 318, 402, and 405 of the CWA. The term includes a state program approved by U.S. EPA under 40 CFR 123.

(30) "Open waters of Lake Michigan" means the following:

(A) The waters within Lake Michigan lakeward, from a line drawn across the mouth of tributaries to the lake, including all surface waters enclosed by constructed breakwaters.

(B) For the Indiana Harbor Ship Canal, the boundary of the open waters of Lake Michigan is delineated by a line drawn across the mouth of the harbor from the East Breakwater Light (2016 United States Coast Guard Light List No. 19675) to the northernmost point of the shore line along the west side of the harbor.

(31) "Outstanding national resource water" or "ONRW" has the meaning set forth at IC 13-11-2-149.5.

(32) "Outstanding state resource water" or "OSRW" has the meaning set forth at IC 13-11-2-149.6.

(33) "Parameter" means a quantitative or characteristic element that describes:

(A) physical;
(B) chemical; or
(C) biological;

conditions of water.

(34) "Permit" has the meaning set forth at IC 13-11-2-157.

(35) "Permittee" means the holder of a permit.

(36) "Person" has the meaning set forth at IC 13-11-2-158(a).

(37) "Point source" means any discernible, confined, and discrete conveyance, including any of the following from which pollutants are, or may be, discharged:

(A) A pipe.
(B) A ditch.
(C) A channel.
(D) A tunnel.
(E) A conduit.
(F) A well.
(G) A discrete fissure.
(H) A container.
(I) Rolling stock.
(J) A concentrated animal feeding operation.
(K) A landfill leachate collection system.
(L) A vessel.
(M) Any other floating craft.

The term does not include return flows from irrigated agriculture or agricultural storm runoff.

(38) "Pollutant" means any of the following when discharged into water:

(A) Dredged spoil.

(B) Solid waste.
(C) Incinerator residue.
(D) Filter backwash.
(E) Sewage.
(F) Garbage.
(G) Sewage sludge.
(H) Munitions.
(I) Chemical wastes.
(J) Biological materials.
(K) Radioactive materials.
(L) Heat.
(M) Wrecked or discarded equipment.
(N) Rock.
(O) Sand.
(P) Cellar dirt.
(Q) Industrial, municipal, or agricultural waste.

(39) "Pollution prevention" has the meaning set forth at IC 13-11-2-166.

(40) "Privately owned treatment works" means any device or system:
(A) including recycling and reclamation, used in the treatment of:
(i) municipal sewage; or
(ii) industrial wastes; and
(B) that is not a POTW.

(41) "Publicly owned treatment works" or "POTW" has the meaning set forth at 327 IAC 5-1.5-48.

(42) "RCRA" means the Resource Conservation and Recovery Act, 42 U.S.C. 6901 through 42 U.S.C. 6992k.

(43) "Regulated pollutant" means any:
(A) parameter of a pollutant as defined in subdivision (38):
(i) for which water quality criteria have been adopted in or developed pursuant to 327 IAC 2-1 or 327 IAC 2-1.5;
(ii) including:
(AA) narrative and numeric criteria; and
(BB) nutrients, specifically phosphorus and nitrogen; and
(iii) excluding:
(AA) biological criteria;
(BB) pH; and
(CC) dissolved oxygen; and
(B) other parameter of a pollutant as defined in subdivision (38) that may be limited in an NPDES permit as a result of:
(i) best professional judgment;
(ii) new source performance standards;
(iii) best conventional pollutant control technology;
(iv) best available technology economically achievable; or
(v) best practicable control technology currently available;
for the appropriate categorical guidelines of 40 CFR 400 to 40 CFR 471.

(44) "Representative background concentration" means a value based upon a data set and determined according to 327 IAC 5-2-11.4(a)(8).

(45) "Representative background loading rate" means the product of the representative background concentration multiplied by either the:
(A) approved alternate mixing zone volume for Lake Michigan; or
(B) stream design flow.

(46) "Sanitary sewer" means a sewer to which storm, surface, and ground waters are not intentionally allowed to enter, and

that conveys liquid and water-carried wastes from the following:

(A) Residences.

(B) Commercial buildings.

(C) Industrial plants.

(D) Institutions.

(47) "Sanitary wastewater" means the liquid and water-carried waste from:

(A) residences;

(B) commercial buildings;

(C) industrial plants;

(D) institutions; and

(E) other places of human occupancy;

that is transported by sewers and is primarily composed of human and household waste. Sanitary wastewater, as received by a POTW, may contain a component of industrial waste.

(48) "Sewage" has the meaning set forth at IC 13-11-2-200.

(49) "Sewer" means a pipe or conduit that carries wastewater or drainage water.

(50) "Significant lowering of water quality" means:

(A) there is a new or increased loading of a regulated pollutant to a surface water of the state, that results in an increase in the ambient concentration of the regulated pollutant, and the increased loading is greater than a de minimis lowering of water quality; and

(B) none of the provisions of section 4 of this rule applies.

(51) "Stream design flow" means the stream flow that represents critical conditions, upstream from the source as defined in 327 IAC 5-2-11.1(b) and 327 IAC 5-2-11.4(b)(3), for protection of:

(A) aquatic life;

(B) human health; or

(C) wildlife.

(52) "Total loading capacity" is expressed as a regulated pollutant mass loading rate per twenty-four (24) hour period for the waterbody in the area where the water quality is proposed to be lowered, and means the product of the applicable water quality criterion multiplied by the sum of:

(A) the existing effluent flow;

(B) the proposed new or increased effluent flow; and

(C) either:

(i) the approved alternate mixing zone volume for Lake Michigan; or

(ii) the stream design flow.

(53) "Toxic substances" means substances that are, or may become, harmful to:

(A) aquatic life;

(B) humans;

(C) other animals;

(D) plants; or

(E) food chains;

when present in sufficient concentrations or combinations. The term includes those substances identified as toxic under Section 307(a)(1) of the CWA.

(54) "Unit of government" means a:

(A) county;

(B) municipality;

(C) township; or

(D) state.

(55) "Used loading capacity" is expressed as a regulated pollutant mass loading rate per twenty-four (24) hour period for the waterbody in the area where the water quality is proposed to be lowered, and means the sum of:

(A) the representative background loading rate over a twenty-four (24) hour period; and

(B) the monthly average mass-based effluent limitations contained in the existing permit.

(56) "Wastewater" means liquid or water-carried wastes from industrial, municipal, agricultural, or other sources.
(57) "Water quality standard" means a state or federal law or regulation consisting of:
(A) a designated use or uses;
(B) water quality criteria; and
(C) an antidegradation policy and implementation procedure.
(58) "Waters" or "waters of the state" has the meaning set forth in IC 13-11-2-265.
(59) "Watershed" has the meaning set forth in IC 14-8-2-310.
(60) "Whole effluent toxicity" or "WET" means the aggregate toxic effect of an effluent measured directly by a toxicity test performed in accordance with the approved methodologies under 40 CFR Part 136.

*These documents are incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204.

**The Natural Resources Commission Information Bulletin #2 can be found at www.in.gov\dnr\fishwild. *(Water Pollution Control Division; 327 IAC 2-1.3-2; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA; errata filed Oct 17, 2012, 3:30 p.m.: 20121107-IR-327120574ACA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1.3-3 Antidegradation standards

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18
Affected: IC 13-18-3-2; IC 13-18-4

Sec. 3. (a) The Tier 1 antidegradation standard is as follows:
(1) For all surface waters of the state, existing uses and the level of water quality necessary to protect existing uses shall be maintained and protected. To ensure this standard is met, the commissioner shall do the following:
(A) Ensure that the level of water quality necessary to protect existing uses is maintained. In order to achieve this requirement, water quality standards use designations must include all existing uses.
(B) Establish controls as necessary on nonpoint sources, where authority exists, and point sources of regulated pollutants to ensure the following:
(i) The criteria applicable to the designated use are achieved in the water.
(ii) Any designated use of a downstream water is maintained and protected.
(2) Where designated uses of waters are impaired:
(A) there shall be no additional lowering of the water quality with respect to the regulated pollutants that are causing the impairment; and
(B) to ensure the standard under clause (A) is met, the commissioner shall not allow a lowering of water quality for the regulated pollutants that prevents the attainment of the:
(i) designated use; or
(ii) water quality criterion.
(b) The Tier 2 antidegradation standard for HQWs that are not ONRWs or OSRWs is as follows:
(1) The surface waters of the state where existing quality for a parameter is better than the water quality criterion for that parameter established in 327 IAC 2-1-6 or 327 IAC 2-1.5-8 shall be considered high quality for that parameter.
(2) This high quality of water for a parameter shall be maintained and protected unless the commissioner finds, after full satisfaction of intergovernmental coordination and public participation and the provisions in section 5 of this rule, that allowing a significant lowering of water quality is necessary and accommodates important social or economic development in the area in which the waters are located. In allowing a significant lowering of water quality, the commissioner shall assure the following:
(A) Water quality adequate to fully protect existing uses is maintained.
(B) The highest statutory and regulatory requirements for all new and existing point sources are applied.
(C) Where authority exists, all cost-effective and reasonable BMPs for nonpoint source control are employed.
(c) The Tier 2.9 antidegradation standard for HQWs that are OSRWs is as follows:
(1) For OSRWs inside the Great Lakes basin, no new or increased loading of a BCC, except mercury, shall be allowed that causes a significant lowering of water quality of the OSRW.

(2) For mercury in OSRWs inside the Great Lakes basin, BCCs in OSRWs outside the Great Lakes basin, and non-BCCs in all OSRWs, the following apply:

(A) These waters shall be maintained and protected in their present high quality unless the commissioner finds, after full satisfaction of:

(i) intergovernmental coordination and public participation; and

(ii) the provisions in sections 5 and 7 of this rule;

that allowing a significant lowering of water quality is necessary and accommodates important social or economic development in the area in which the waters are located.

(B) In allowing a significant lowering of water quality, the commissioner shall assure the following:

(i) Water quality adequate to fully protect existing uses is maintained.

(ii) The highest statutory and regulatory requirements for all new and existing point sources are applied.

(iii) Where authority exists, all cost-effective and reasonable BMPs for nonpoint source control are employed.

(3) For OSRWs, any new or increased loading of a regulated pollutant that results in a significant lowering of water quality for that regulated pollutant shall be prohibited, unless the:

(A) activity causing the increased loading:

(i) results in an overall improvement in water quality in the OSRW; and

(ii) meets the applicable requirements of this section; or

(B) person proposing the increased loading implements or funds a water quality improvement project in accordance with IC 13-18-3-2 in the watershed of the OSRW that:

(i) results in an overall improvement in water quality in the OSRW; and

(ii) meets the applicable requirements of this section.

(d) In addition to the OSRWs designated under IC 13-18-3-2(u) or listed at 327 IAC 2-1.5-19(b), the following waters are designated by the board to be OSRWs:

(1) The Blue River in Washington, Crawford, and Harrison counties, from river mile 57.0 to river mile 11.5.

(2) The North Fork of Wildcat Creek in Carroll and Tippecanoe counties, from river mile 43.11 to river mile 4.82.

(3) The South Fork of Wildcat Creek in Tippecanoe County, from river mile 10.21 to river mile 0.00.

(e) The Tier 3 antidegradation standard for HQWs that are ONRWs is the following:

(1) These waters shall be maintained and protected in their present high quality without degradation except for short-term, temporary loadings as described in section 4(a) of this rule.

(2) To ensure the antidegradation standard under subdivision (1) is met, the following requirements apply:

(A) A deliberate activity that:

(i) is not exempt under section 4 of this rule; and

(ii) results in a new or increased loading;

is prohibited.

(B) A loading to a tributary of an ONRW that is not exempt under section 4 of this rule shall not be allowed if it would cause an increase in the ambient concentration of that pollutant in the ONRW.

(f) Except for ONRWs, any determination made by the commissioner in accordance with Section 316 of the CWA concerning alternative thermal effluent limitations shall be considered to be consistent with the antidegradation standards contained in this section. *(Water Pollution Control Division; 327 IAC 2-1.3-3; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)*

327 IAC 2-1.3-4 Exemptions from the antidegradation demonstration requirements and the water quality improvement project or payment to the OSRW improvement fund requirements

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18

Affected: IC 13-11-2-24; IC 13-18-7; IC 13-23-13; IC 13-24-1; IC 13-25-5

Sec. 4. (a) For an ONRW or OSRW inside the Great Lakes basin, an exemption from the antidegradation demonstration requirements included in section 5 of this rule and the water quality improvement project or payment to the OSRW improvement fund requirements included in section 7 of this rule shall be allowed for new or increased loadings of mercury and non-BCCs if the following conditions are met:

(1) All reasonable methods for minimizing or preventing the new or increased loading have been taken.

(2) The discharge will last less than twelve (12) months or three hundred sixty-five (365) days.

(3) A person applies for and receives authorization from the commissioner.

(4) The discharge will result only in a short-term, temporary (not to exceed twelve (12) months) lowering of water quality.

(5) The discharge complies with the antidegradation standards contained in section 3 of this rule.

(b) For an HQW except an ONRW or OSRW inside the Great Lakes basin, an exemption from the antidegradation demonstration requirements included in section 5 of this rule and the water quality improvement project or payment to the OSRW improvement fund requirements included in section 7 of this rule shall be allowed for new or increased loadings if the following conditions are met:

(1) All reasonable methods for minimizing or preventing the new or increased loading have been taken.

(2) The discharge will last less than twelve (12) months or three hundred sixty-five (365) days.

(3) A person applies for and receives authorization from the commissioner.

(4) The discharge will result only in a short-term, temporary (not to exceed twelve (12) months) lowering of water quality.

(5) The discharge complies with the antidegradation standards contained in section 3 of this rule.

(c) For an HQW except an ONRW, a new or increased loading of a regulated pollutant resulting from the following is exempt from the antidegradation demonstration requirements included in section 5 of this rule and the water quality improvement project or payment to the OSRW improvement fund requirements included in section 7 of this rule:

(1) A new or increased loading of a non-BCC that is a demonstrated de minimis lowering of water quality as shown by the submission of sufficient information that allows the commissioner to verify the de minimis as determined according to the following:

(A) Calculation considerations according to the following:

(i) The proposed net increase in the loading of a regulated pollutant is less than or equal to ten percent (10%) of the available loading capacity determined at the time of the specific proposed new or increased loading of the regulated pollutant. The available loading capacity shall be established at the time of each request for a new or increased loading of a regulated pollutant.

(ii) The benchmark available loading capacity is equal to ninety percent (90%) of the available loading capacity established at the time of the request for the initial increase in the loading of a regulated pollutant.

(iii) For every request after the time of the request for the initial increase in the loading of a regulated pollutant, the available loading capacity remaining after the net increase in the loading of a regulated pollutant must be greater than or equal to the benchmark available loading capacity.

(B) For heat, except for loadings to Lake Michigan, the following conditions must be satisfied:

(i) The new or increased loading will not result in an increase in temperature in a stream or an inland lake, outside of the designated mixing zone, where applicable.

(ii) The new or increased loading will not result in an increase in waste heat of an amount in a stream greater than the amount determined by calculating the number of British thermal units (BTUs) required to raise the temperature of the stream design flow of the receiving stream by one (1) degree Fahrenheit.

(C) For loadings to Lake Michigan, relative to temperature and heat, the following conditions must be satisfied:

(i) The new or increased loading will not result in an increase in temperature as allowed in 327 IAC 2-1.5-8(c)(4)(D)(iv), at the edge of a one thousand (1,000) foot arc inscribed from a fixed point adjacent to the loading.

(ii) The new or increased loading will not result in an increase in waste heat in an amount greater than five-tenths (0.5) billion BTUs per hour.

(2) A new or increased loading that results from one (1) of the following activities that does not require the submission of information beyond what is required to comply with the discharger's existing applicable permit:

(A) A change in loading of a regulated pollutant within the existing capacity and processes that are covered by an existing applicable permit, including, but not limited to, the following:

(i) Normal operational variability, including, but not limited to, intermittent increased loadings due to wet weather conditions.

(ii) A change in intake water pollutants not caused by the discharger.

(iii) Increasing the production hours of the facility, for example, adding a second shift.

(iv) Increasing the rate of production.

(v) A change at an internal outfall that does not directly discharge to a surface water of the state.

(vi) A change in the applicable effluent limitation guideline based on a change in production.

(B) A bypass not prohibited by 327 IAC 5-2-8(11).

(C) A new limit for a regulated pollutant for an existing permitted discharger that will not allow an increase in either the mass or concentration of the regulated pollutant discharged, including a new limit that is a result of one (1) of the following:

(i) New or improved:

(AA) monitoring data; or

(BB) analytical methods.

(ii) New or modified:

(AA) water quality criteria; or

(BB) effluent limitation guidelines, pretreatment standards, or control requirements for POTWs.

(D) An increased loading of a regulated pollutant at an existing outfall discharging to a water of the state due to increasing the sewered area, connection of new sewers and users, or acceptance of trucked-in wastes, such as septage and holding tank wastes, by a POTW, provided the following are true:

(i) There is no increase in the existing NPDES permit limits.

(ii) There is no increase beyond the treatment capacity of the facility.

(iii) There is no significant change expected in the characteristics of the wastewater discharged.

(iv) There is no increased loading of BCCs from nondomestic wastes.

(Water Pollution Control Division; 327 IAC 2-1.3-4; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)

327 IAC 2-1.3-5 Antidegradation demonstration

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18

Affected: IC 13-23-13; IC 13-24-1; IC 13-25-5

Sec. 5. (a) Any person requesting a new or increased loading that would cause a lowering of water quality that is not exempt under section 4 of this rule shall submit the information described in this section to the commissioner to support the commissioner's determination that the proposed new or increased loading is necessary and accommodates important social or economic development in the area of the loading. The following basic information must be submitted:

(1) The regulated pollutants proposed to be in the new or increased loading.

(2) The estimated concentration and mass of all regulated pollutants proposed to be in the new or increased loading.

(3) The location of the proposed discharge and a map of the area of the proposed discharge that shows the receiving water or waters that would be affected by the new or increased loading, including the area downstream of the proposed discharge.

(4) The physical, biological, and chemical conditions of the receiving water or waters as determined by:

(A) available information; or

(B) additional information, including, if requested by the department, the results of water quality analysis such as:

(i) chemical analysis;

(ii) biological analysis; or

(iii) both items (i) and (ii).

(b) Any person requesting a new or increased loading that would cause a lowering of water quality that is not exempt under section 4 of this rule shall submit an antidegradation demonstration that includes the basic information required under subsection (a) and the necessary information required under subsection (c) for the following beneficial activities that result in a new or increased loading:

(1) A change in loading of a regulated pollutant due solely to implementation of:

(A) enforceable municipal or industrial controls on wet weather flows, including combined sewer overflows; or

(B) an enforceable individual NPDES permit for storm water associated with industrial activity;

when there is no net increase in the quantity and concentration of the regulated pollutant to the same ten (10) digit watershed.

(2) A new or increased loading of a regulated pollutant due to one (1) or more of the following:

(A) A response action under CERCLA, as defined in IC 13-11-2-24, as amended.

(B) A corrective action under RCRA, as amended.

(C) An action utilizing federal or state authorities with regulations to alleviate a release into the environment of hazardous substances, pollutants, or contaminants that may pose an imminent or existing and substantial danger to public health or welfare, including one (1) or more of the following:

(i) An underground storage tank (UST) corrective action under IC 13-23-13.

(ii) A remediation of petroleum releases under IC 13-24-1.

(iii) A voluntary remediation under IC 13-25-5.

(iv) An abatement or correction of any polluted condition under IC 13-18-7.

(3) A new or increased loading of noncontact cooling water that will not do the following:

(A) Increase the temperature of the receiving water or waters outside of the designated mixing zone, where applicable.

(B) Increase the loading of BCCs.

(C) Require numeric water quality-based effluent limitations (WQBELs) for toxic substances or WET as determined under 327 IAC 5-2-11.5.

(4) A new or increased loading of an approved non-BCC water treatment additive.

(5) A change in loading of a regulated pollutant:

(A) where there is a voluntary, simultaneous, enforceable decrease in the actual loading of the regulated pollutant from sources contributing to the same ten (10) digit watershed; and

(B) with the result that there is a net decrease in the loading of the regulated pollutant to the same ten (10) digit watershed.

(6) A new or increased loading of a regulated pollutant from a sanitary wastewater treatment plant constructed or expanded to alleviate a public health concern, for example, a connection of existing residences currently on septic systems.

(c) For each regulated pollutant in the proposed new or increased loading associated with activities in subsections (b), (d), and (f), each antidegradation demonstration shall include the following necessary information:

(1) The availability, reliability, cost-effectiveness, and technical feasibility of the following:

(A) No degradation.

(B) Minimal degradation.

(C) Degradation mitigation techniques or alternatives.

(2) An analysis of the loading reduction benefits and water quality benefits associated with the degradation mitigation techniques or alternatives required to be assessed under subdivision (1)(C), including the following:

(A) A review of pollution prevention alternatives and techniques that includes the following:

(i) A listing of alternatives and techniques, including new and innovative technologies.

(ii) A description of how the alternatives and techniques available to the applicant would minimize or prevent the proposed significant lowering of water quality.

(iii) The loading reduction attainable by employing the alternatives and techniques.

(iv) The costs associated with employing the alternatives and techniques.

(v) An identification of the pollution prevention alternatives and techniques selected to be employed and an explanation of why those selections were made.

(B) An evaluation of the feasibility and costs of connecting to an existing POTW or privately owned treatment works, within the vicinity of the proposed new or increased loading, that:

(i) will effectively treat the proposed discharge; and

(ii) is willing to accept wastewater from other entities.

(C) For POTWs, if the proposed significant lowering of water quality is a result of a proposed new or increased loading from one (1) or more indirect dischargers, the analysis shall also include the following:

(i) The requirements of clause (A) shall be completed for the indirect discharger or dischargers as well as for the POTW. The POTW may require the indirect dischargers to prepare this information.

(ii) If one (1) or more of the indirect dischargers proposes or does discharge to a combined sewer or sanitary sewer that is connected to a combined sewer, all combined sewer overflows (CSOs) between the point of discharge to the sewer and the POTW shall be identified.

(3) The availability, cost-effectiveness, and technical feasibility of central or regional sewage collection and treatment facilities, including long-range plans for discharges outlined in:

(A) state or local water quality management planning documents; and

(B) applicable facility planning documents.

(4) The availability, cost-effectiveness, and technical feasibility of discharging to another waterbody that:

(A) is not an OSRW; or

(B) has a higher assimilative capacity for the regulated pollutant.

(d) Any person requesting a new or increased loading that would cause a lowering of water quality that is not exempt under section 4 of this rule shall submit an antidegradation demonstration that includes the basic information required under subsection (a), the necessary information required under subsection (c), and the alternatives analysis information required under subsection (e) for the following beneficial activities that result in a new or increased loading:

(1) A new or increased loading of a regulated pollutant where the following are true:

(A) The new or increased loading is necessary to accomplish a reduction in the loading of another regulated pollutant.

(B) There will be an improvement in water quality in the receiving water or waters. An improvement in water quality will occur if the impact from the new or increased loading of the regulated pollutant is:

(i) less bioaccumulative; and

(ii) less toxic than the reduced pollutant or pollutant parameter.

In making these determinations regarding bioaccumulation, the BAF methodology under 327 IAC 2-1.5-13 will be used.

(2) A new or increased loading of a regulated pollutant where:

(A) the new or increased loading is necessary to accomplish a reduction in the release of one (1) or more air pollutants; and

(B) there will be an environmental improvement that will occur when the applicant demonstrates that the reduction in the loading of the air pollutant:

(i) is necessary to meet a state or federal air quality standard or emission requirement; or

(ii) will substantially reduce human exposure to hazardous air pollutants or other air pollutants that are subject to state or federal air quality standards.

(e) For each regulated pollutant in the proposed new or increased loading associated with activities in subsections (d) and (f), each antidegradation demonstration shall include the information required by one (1) of the following alternatives analyses:

(1) The identification of an accepted effluent limit based on BADCT, when available, as established by the department.

(2) A discussion of the following:

(A) The alternative or enhanced treatment techniques selected to be employed.

(B) An explanation of why the alternative or enhanced treatment techniques selected in clause (A) were made.

(C) The reliability of the selected treatment alternative or alternatives, including, but not limited to, the possibility of recurring operational and maintenance difficulties that would lead to increased degradation.

(f) Any person seeking a new or increased loading that constitutes a significant lowering of water quality that is not exempt under section 4 of this rule and is not a beneficial activity identified under subsections (b) or (d) shall submit an antidegradation demonstration that includes the following:

(1) Basic information required under subsection (a).

(2) Necessary information required under subsection (c).

(3) Alternatives analysis information required under subsection (e).

(4) Social and economic analysis information required under subsection (g).

(g) For each regulated pollutant in the proposed new or increased loading associated with activities in subsection (f), each antidegradation demonstration shall include the following social and economic analysis information:

(1) The anticipated impact on aquatic life and wildlife, considering the following:

(A) Endangered or threatened species.

(B) Important commercial or recreational sport fish species.

(C) Other individual species.

(D) The overall aquatic community structure and function.

(2) The anticipated impact on human health.

(3) The degree to which water quality may be lowered in waters located within the following:

(A) National, state, or local parks.

(B) Preserves or wildlife areas.
(C) OSRWs or ONRWs.

(4) The extent to which the resources or characteristics adversely impacted by the lowered water quality are unique or rare within the locality or state.

(5) Where relevant, the anticipated impact on economic and social factors, including the following:
(A) Creation, expansion, or maintenance of employment.
(B) The unemployment rate.
(C) The median household income.
(D) The number of households below the poverty level.
(E) Community housing needs.
(F) Change in population.
(G) The impact on the community tax base.
(H) Provision of fire departments, schools, infrastructure, and other necessary public services.
(I) Correction of a public health, safety, or environmental problem.
(J) Production of goods and services that protect, enhance, or improve the overall quality of life and related research and development.
(K) The impact on the quality of life for residents in the area.
(L) The impact on the fishing, recreation, and tourism industries.
(M) The impact on endangered or threatened species.
(N) The impact on economic competitiveness.
(O) Demonstration by the applicant that the factors identified and reviewed under clauses (A) through (N) are necessary to accommodate important social or economic development despite the proposed significant lowering of water quality.
(P) Inclusion by the applicant of additional factors that may enhance the social or economic importance associated with the proposed discharge, such as an approval that recognizes social or economic importance and is given to the applicant by:
(i) a legislative body; or
(ii) other government officials.

(6) Any other:
(A) action or recommendation relevant to the antidegradation demonstration:
(i) made by a:
(AA) state;
(BB) county;
(CC) township; or
(DD) municipality;
potentially affected by the proposed discharge; or
(ii) received during the public participation process; and
(B) factors that the commissioner:
(i) finds relevant; or
(ii) is required to consider under the CWA.

(Water Pollution Control Division; 327 IAC 2-1.3-5; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)

327 IAC 2-1.3-6 Commissioner's determination

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18
Affected: IC 13-18-3-14; IC 13-23-13; IC 13-24-1; IC 13-25-5

Sec. 6. (a) In determining whether a proposed loading is necessary and accommodates important social or economic development in the area in which the waters are located under antidegradation standards and implementation procedures, the commissioner:

(1) must give substantial weight to any applicable determinations by governmental entities; and

(2) may rely on consideration of any one (1) or a combination of the factors listed in section 5(g)(5) of this rule.

(b) Upon receipt of an antidegradation demonstration, the commissioner shall provide notice and request comment according to 327 IAC 5-2-11.2. The commissioner shall hold a public meeting on the antidegradation demonstration in accordance with 327 IAC 5-2-11.2 if:

(1) the proposed loading is to an OSRW; or

(2) a public meeting is requested during the noticed comment period by at least twenty-five (25) persons living or working within:

(A) the same ten (10) digit watershed; or

(B) fifteen (15) miles of the proposed loading.

The commissioner may hold a public meeting in accordance 327 IAC 5-2-11.2 if the commissioner otherwise deems such a meeting appropriate.

(c) The commissioner shall make a determination on the antidegradation demonstration by considering whether the demonstration meets the following:

(1) Is administratively complete.

(2) Provides the following information:

(A) The applicable factors listed in section 5 of this rule, as appropriate, for the new or increased loading.

(B) Any other information that the commissioner deems appropriate regarding the:

(i) proposed activities; and

(ii) affected receiving water or waters.

If the applicant voluntarily held a public meeting that allowed interested parties the opportunity to hear the applicant's rationale supporting the elements of the applicant's antidegradation demonstration, evidence of the public meeting should be included in the antidegradation demonstration for the commissioner's consideration. At a minimum, the evidence of the public meeting should include the date of the public meeting, names of those in attendance, and a summary of questions asked and subjects discussed.

(d) The commissioner shall deny some or all of the request to significantly lower water quality if one (1) or more of the following applies:

(1) The activity that would cause the lowering of water quality is not necessary because cost-effective measures that would prevent or minimize the proposed lowering of water quality are reasonably available but the person proposing the new or increased loading has chosen not to implement these measures.

(2) The activity that would cause the lowering of water quality does not accommodate important social or economic development in the area.

(3) The activity that would cause the lowering of water quality would jeopardize endangered or threatened species.

(e) The commissioner may approve some or all of the request to significantly lower water quality only if the following have occurred:

(1) A public participation process.

(2) Appropriate intergovernmental coordination.

(3) A determination by the commissioner that the lower water quality is necessary and accommodates important social or economic development in the area in which the receiving water or waters is located.

(f) In no event may a permit be granted that would not meet the requirements of section 3 of this rule.

(g) When the commissioner makes a tentative determination on an antidegradation demonstration, the commissioner shall public notice the antidegradation demonstration tentative determination according to 327 IAC 5-2-11.2 and the tentative determination shall:

(1) summarize, in the public notice form, the determining factors relied upon by the commissioner; and

(2) if approved for an NPDES permit, be incorporated into the:

(A) draft permit; and

(B) fact sheet;

that are made available for public comment under 327 IAC 5-3-9.

(Water Pollution Control Division; 327 IAC 2-1.3-6; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)

327 IAC 2-1.3-7 Water quality improvement project or payment to the OSRW improvement fund

Authority: IC 13-13-5-1; IC 13-13-5-2; IC 13-18
Affected: IC 13-18-3-14; IC 13-23-13; IC 13-24-1; IC 13-25-5

Sec. 7. (a) A discharger proposing to cause a significant lowering of water quality in an OSRW shall:

(1) implement a water quality improvement project in the watershed of the affected OSRW; or

(2) fund a water quality improvement project in the watershed of the affected OSRW by payment of a fee into the OSRW improvement fund established under IC 13-18-3-14;

for each activity undertaken that will result in a significant lowering of water quality in an OSRW.

(b) To implement a water quality improvement project in the watershed of the affected OSRW, the following apply:

(1) A person proposing to implement a water quality improvement project in the watershed of the OSRW that will result in an overall improvement of the water quality of the OSRW shall submit information on the proposed water quality improvement project to the commissioner simultaneously with the submission of the antidegradation demonstration required under section 5 of this rule. The water quality improvement project information must include the following:

(A) A detailed description of the project, including:

(i) the type and quantity of pollutants that will be reduced or eliminated as a result of the project; and

(ii) a project implementation timeline.

(B) Sufficient information to clearly demonstrate that the project will result in an overall improvement in water quality in the OSRW.

(C) Any data used to assess overall water quality improvement must be less than seven (7) years old and specific to the OSRW.

(2) Upon receipt of the water quality improvement project information, the commissioner shall do the following:

(A) Provide notice and request comment according to 327 IAC 5-2-11.2(b).

(B) Hold a public meeting in accordance with 327 IAC 5-2-11.2(b)(3) on the water quality improvement project information concurrently with the public meeting held on the antidegradation demonstration.

(3) Once the commissioner determines that the information provided by the person submitting the proposed water quality improvement project is administratively complete, the commissioner shall make a determination as to whether the project, based on the information submitted by the applicant, will result in an overall improvement in water quality in the OSRW.

(4) The commissioner shall approve or deny a water quality improvement project considering the following factors:

(A) Whether the project can be successfully implemented.

(B) Whether the project will offset the lowering of water quality caused by new or increased loadings of regulated pollutants.

(c) A person proposing to fund a water quality improvement project in the watershed of the affected OSRW by payment of a fee into the OSRW improvement fund established under IC 13-18-3-14 prior to issuance of a permit, shall pay an amount that:

(1) shall not exceed five hundred thousand dollars ($500,000); and

(2) is determined by the department based on the:

(A) type and quantity of increased pollutant loadings;

(B) estimated initial capital cost; and

(C) costs of operation and maintenance;

for the treatment system or other alternative that would be necessary to offset the proposed significant lowering of water quality caused by the increased pollutant loadings to the OSRW.

(d) The commissioner, prior to utilizing the funds in the OSRW improvement fund, shall solicit input from interested parties on the identification and selection of the water quality improvement projects to be funded with the funds in the OSRW improvement fund.

(e) The commissioner shall utilize the funds in the OSRW improvement fund to implement water quality improvement projects considering the following factors:

(1) Whether the project can be successfully implemented.

(2) Whether the project will offset the lowering of water quality caused by new or increased loadings of a regulated

pollutant.

(3) Cost-effectiveness of the project.

(Water Pollution Control Division; 327 IAC 2-1.3-7; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA; errata filed Oct 17, 2012, 3:30 p.m.: 20121107-IR-327120574ACA)

Rule 1.5. Water Quality Standards Applicable to All State Waters Within the Great Lakes System

327 IAC 2-1.5-1	Applicability of rule
327 IAC 2-1.5-2	Definitions
327 IAC 2-1.5-3	Water quality goals
327 IAC 2-1.5-4	Antidegradation standard (Repealed)
327 IAC 2-1.5-5	Surface water use designations; multiple uses
327 IAC 2-1.5-6	Bioaccumulative chemicals of concern
327 IAC 2-1.5-7	Mixing zone guidelines
327 IAC 2-1.5-8	Minimum surface water quality criteria
327 IAC 2-1.5-9	Interim ground water quality standards (Repealed)
327 IAC 2-1.5-10	Methods of analysis
327 IAC 2-1.5-11	Determination of Tier I aquatic life criteria
327 IAC 2-1.5-12	Determination of Tier II aquatic life values
327 IAC 2-1.5-13	Determination of bioaccumulation factors (BAFs)
327 IAC 2-1.5-14	Determination of human health criteria and values
327 IAC 2-1.5-15	Determination of wildlife criteria
327 IAC 2-1.5-16	Site-specific modifications to Tier I criteria and Tier II values
327 IAC 2-1.5-17	Variances from water quality standards for point sources
327 IAC 2-1.5-18	Designation of a waterbody as a limited use water or classification as an outstanding state resource water
327 IAC 2-1.5-19	Limited use waters and outstanding state resource waters
327 IAC 2-1.5-20	Incorporation by reference (Repealed)

327 IAC 2-1.5-1 Applicability of rule

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 1. The water quality standards established by this rule shall apply to all waters of the state within the Great Lakes system. *(Water Pollution Control Division; 327 IAC 2-1.5-1; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1363)*

327 IAC 2-1.5-2 Definitions

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-11-2; IC 13-18-3-2; IC 13-18-4

Sec. 2. In addition to the definitions contained in IC 13-11-2 and 327 IAC 2-1.3-2, the following definitions apply throughout this article, 327 IAC 5, and 327 IAC 15:

(1) "Acceptable endpoints" (subchronic and chronic), for the purpose of wildlife criteria derivation, means those endpoints that affect reproductive or developmental success, organismal viability or growth, or any other endpoint that is, or is directly related to, a parameter that influences population dynamics.

(2) "Acute-chronic ratio" or "ACR" means a standard measure of the acute toxicity of a material divided by an appropriate measure of the chronic toxicity of the same material under comparable conditions.

(3) "Acute toxicity" means concurrent and delayed adverse effects that result from an acute exposure and occur within any short observation period, which begins when the exposure begins, may extend beyond the exposure period, and usually does not constitute a substantial portion of the life span of the organism.

(4) "Acute toxic unit" or "TU_a" means $100/LC_{50}$ where the LC_{50} is expressed as a percent effluent in the test medium of an

acute whole effluent toxicity (WET) test that is statistically or graphically estimated to be lethal to fifty percent (50%) of the test organisms.

(5) "Adverse effect" means any deleterious effect to organisms due to exposure to a substance. The term includes effects that are or may become debilitating, harmful, or toxic to the normal functions of the organism, but does not include nonharmful effects, such as tissue discoloration alone or the induction of enzymes involved in the metabolism of the substance.

(6) "Alternate mixing zone" means a mixing zone granted by the commissioner under 327 IAC 5-2-11.4(b)(4) for a particular pollutant and a particular criterion or value that is larger than that specified in 327 IAC 5-2-11.4(b)(2) or 327 IAC 5-2-11.4(b)(3).

(7) "Baseline BAF" means the following:

(A) For organic chemicals, a BAF that is based on the concentration of freely dissolved chemical in the ambient water and takes into account the partitioning of the chemical within the organism.

(B) For inorganic chemicals, a BAF that is based on the wet weight of the tissue.

(8) "Baseline BCF" means the following:

(A) For organic chemicals, a BCF that is based on the concentration of freely dissolved chemical in the ambient water and takes into account the partitioning of the chemical within the organism.

(B) For inorganic chemicals, a BCF that is based on the wet weight of the tissue.

(9) "Benchmark dose" or "BMD" means a statistical lower confidence limit on the dose or concentration that produces a predetermined change in response rate of a benchmark response compared to background.

(10) "Benchmark response" means an adverse effect used to define a benchmark dose from which an RfD or RfC can be developed. The change in response rate over background of the benchmark response is usually in the range of five percent (5%) to ten percent (10%), which is the limit of response typically observed in well-conducted animal experiments.

(11) "Bioaccumulation" means the net accumulation of a substance by an organism as a result of uptake from all environmental sources.

(12) "Bioaccumulation factor" or "BAF" means the ratio in liters per kilogram of a substance's concentration in tissue of an aquatic organism to its concentration in the ambient water, in situations where both the organism and its food are exposed and the ratio does not change substantially over time.

(13) "Bioaccumulative chemical of concern" or "BCC" has the meaning set forth in section 6 of this rule.

(14) "Bioconcentration" means the net accumulation of a substance by an aquatic organism as a result of uptake directly from the ambient water through gill membranes or other external body surfaces.

(15) "Bioconcentration factor" or "BCF" means the ratio in liters per kilogram of a substance's concentration in tissue of an aquatic organism to its concentration in the ambient water, in situations where the organism is exposed through the water only and the ratio does not change substantially over time.

(16) "Biota-sediment accumulation factor" or "BSAF" means the ratio in kilograms of organic carbon per kilogram of lipid of a substance's lipid-normalized concentration in tissue of an aquatic organism to its organic carbon-normalized concentration in surface sediment, in situations where:

(A) the ratio does not change substantially over time;

(B) both the organism and its food are exposed; and

(C) the surface sediment is representative of average surface sediment in the vicinity of the organism.

(17) "Carcinogen" means a substance that causes an increased incidence of benign or malignant neoplasms, or substantially decreases the time to develop neoplasms, in animals or humans. The classification of carcinogens is discussed in section 14(b)(1) of this rule.

(18) "Chronic effect", for purposes of wildlife criteria derivation, means:

(A) an adverse effect that is measured by assessing an acceptable endpoint; and

(B) results from continual exposure over several generations, or at least over a significant part of the test species' projected life span or life stage.

(19) "Chronic toxicity" means concurrent and delayed adverse effects that occur only as a result of a chronic exposure.

(20) "Chronic toxic unit" or "TU_c" means 100/NOEC or $100/IC_{25}$, where the NOEC and IC_{25} are expressed as a percent effluent in the test medium.

(21) "Clean Water Act" or "CWA" means the federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.).

(22) "Coliform bacteria" means all the aerobic and facultatively anaerobic, gram-negative, nonsporeforming bacilli that produce acid and gas from the fermentation of lactose.
(23) "Community" means a general collective term to describe the varieties of aquatic species and associated organisms living together in a waterbody.
(24) "Criteria conversion factors" refers to the conversion factors that are multiplied by acute and chronic aquatic criteria developed using toxicological data in the form of total recoverable metal to express the criteria in the form of dissolved metal. The conversion factor for a particular metal and criterion is the fraction of the metal corresponding to an estimate of the percent of the total recoverable metal that was dissolved in the aquatic toxicity tests that were most important in the derivation of the criterion for the metal.
(25) "Criterion" means a definite numerical value or narrative statement promulgated by the board to maintain or enhance water quality to provide for and fully protect designated uses of the waters of the state.
(26) "Criterion continuous concentration" or "CCC" means an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect.
(27) "Criterion maximum concentration" or "CMC" means an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed briefly without resulting in an unacceptable effect.
(28) "Depuration" means the loss of a substance from an organism as a result of any active or passive process.
(29) "Designated uses" has the meaning set forth in section 5 of this rule, whether or not they are being attained.
(30) "EC_{50}" refers to a statistically or graphically estimated concentration that is expected to cause one (1) or more specified effects in fifty percent (50%) of a group of organisms under specified conditions.
(31) "Effluent" means a wastewater discharge from a point source to the waters of the state.
(32) "Endangered or threatened species" includes those species that are listed as endangered or threatened under Section 4 of the Endangered Species Act (ESA).
(33) "ESA" means the Endangered Species Act (ESA), 16 U.S.C. 1531 et seq.
(34) "Existing uses" includes those uses actually attained in the waterbody on or after November 28, 1975, whether or not they are included under section 5 of this rule.
(35) "Final acute value" or "FAV" means:
(A) a calculated estimate of the concentration of a test material so that ninety-five percent (95%) of the genera (with which acceptable acute toxicity tests have been conducted on the material) have higher GMAVs; or
(B) the SMAV of an important or critical species, if the SMAV is lower than the calculated estimate.
(36) "Final chronic value" or "FCV" means:
(A) a calculated estimate of the concentration of a test material so that ninety-five percent (95%) of the genera (with which acceptable chronic toxicity tests have been conducted on the material) have higher GMCVs;
(B) the quotient of an FAV divided by an appropriate acute-chronic ratio; or
(C) the SMCV of an important or critical species, if the SMCV is lower than the calculated estimate or the quotient, whichever is applicable.
(37) "Final plant value" or "FPV" means the lowest plant value that was obtained with an important aquatic plant species in an acceptable toxicity test for which the concentrations of the test material were measured and the adverse effect was biologically important.
(38) "Food-chain multiplier" or "FCM" means the ratio of a BAF to an appropriate BCF.
(39) "Full body contact" means direct contact with the water to the point of complete submergence.
(40) "Genus mean acute value" or "GMAV" means the geometric mean of the SMAVs for the genus.
(41) "Genus mean chronic value" or "GMCV" means the geometric mean of the SMCVs for the genus.
(42) "Geometric mean" means the Nth root of the product of N quantities. Alternatively, the geometric mean can be calculated by adding the logarithms of the N numbers, dividing the sum by N, and taking the antilog of the quotient.
(43) "Great Lakes" means Lake Erie and Lake Michigan.
(44) "Great Lakes states" means:
(A) Illinois;
(B) Indiana;
(C) Michigan;
(D) Minnesota;

(E) New York;
(F) Ohio;
(G) Pennsylvania; and
(H) Wisconsin.

(45) "Great Lakes system" means all the streams, rivers, lakes, and other waters of the state within the drainage basin of the Great Lakes within Indiana.

(46) "Great Lakes water quality wildlife criterion" or "GLWC" means the concentration of a substance that, if not exceeded, is likely to protect avian and mammalian wildlife populations inhabiting the Great Lakes basin from adverse effects resulting from the ingestion of water and aquatic prey taken from surface waters of the Great Lakes system. These criteria are based on existing toxicological studies of the substance of concern and quantitative information about the exposure of wildlife species to the substance through food and water consumption rates. Since toxicological and exposure data for individual wildlife species are limited, a GLWC is derived using a methodology similar to that used to derive noncancer human health criteria. Separate avian and mammalian values are developed using taxonomic class-specific toxicity data and exposure data for five (5) representative Great Lakes basin wildlife species. The following wildlife species selected are representative of avian and mammalian species resident in the Great Lakes basin that are likely to experience the highest exposures to bioaccumulative contaminants through the aquatic food web:

(A) Bald eagle.
(B) Herring gull.
(C) Belted kingfisher.
(D) Mink.
(E) River otter.

(47) "Ground water" means water located below the ground surface in interconnected voids and pore spaces in the zone of saturation.

(48) "Human cancer criterion" or "HCC" refers to a HCV for a pollutant that meets the minimum data requirements for Tier I specified in section 14 of this rule.

(49) "Human cancer value" or "HCV" means the maximum ambient water concentration of a substance at which a lifetime of exposure will represent a plausible upper-bound risk of contracting cancer of one (1) in one hundred thousand (100,000) using the exposure assumptions specified in section 14 of this rule from either:

(A) drinking the water, consuming fish from the water, and water-related recreational activities; or
(B) consuming fish from the water and water-related recreational activities.

(50) "Human noncancer criterion" or "HNC" refers to a HNV for a pollutant that meets the minimum data requirements for Tier I specified in section 14 of this rule.

(51) "Human noncancer value" or "HNV" means the maximum ambient water concentration of a substance at which adverse noncancer effects are not likely to occur in the human population from lifetime exposure using section 14 of this rule from either:

(A) drinking the water, consuming fish from the water, and water-related recreational activities; or
(B) consuming fish from the water and water-related recreation activities.

(52) "Inhibition concentration 25" or "IC_{25}" means the toxicant concentration that would cause a twenty-five percent (25%) reduction in a nonquantal biological measurement for the test population. For example, the IC_{25} is the concentration of toxicant that would cause a twenty-five percent (25%) reduction in mean young per female or in growth for the test population.

(53) "LC_{50}" refers to a statistically or graphically estimated concentration that is expected to be lethal to fifty percent (50%) of a group of organisms under specified conditions.

(54) "Linearized multistage model" means a conservative mathematical model for cancer risk assessment. This model fits linear dose-response curves to low doses. It is consistent with a no-threshold model of carcinogenesis, that means exposure to even a very small amount of the substance is assumed to produce a finite increased risk of cancer.

(55) "Lowest observed adverse effect level" or "LOAEL" means the lowest tested dose or concentration of a substance that resulted in an observed adverse effect in exposed test organisms when all higher doses or concentrations resulted in the same or more severe effects.

(56) "Maximum contaminant level" or "MCL" means the maximum permissible level of a contaminant in water that is

delivered to the free-flowing outlet of the ultimate user of a public water system.

(57) "Mixing zone" means an area contiguous to a discharge where the discharged wastewater mixes with the receiving water. Where the quality of the effluent is lower than that of the receiving water, it may not be possible to attain all beneficial uses within the mixing zone that are attained outside the zone. The mixing zone should not be considered a place where effluents are treated.

(58) "New Great Lakes discharger" has the meaning set forth in 327 IAC 5-1.5-36.

(59) "Nonthreshold mechanism" means a process that results in some possible effect no matter what level is present. There is no level that may not produce an effect.

(60) "No observed adverse effect level" or "NOAEL" is the highest tested dose or concentration of a substance that resulted in no observed adverse effect in exposed test organisms where higher doses or concentrations resulted in an adverse effect.

(61) "No observed effect concentration" or "NOEC" is the highest concentration of toxicant to which organisms are exposed in a full life cycle or partial life cycle (short term) test, that causes no observable adverse effects on the test organisms. This is the highest concentration of toxicant in which the values for the observed responses are not statistically significantly different from the controls.

(62) "Occur at the site" includes the species, genera, families, orders, classes, and phyla that:

(A) are usually present at the site;

(B) are present at the site only seasonally due to migration;

(C) are present intermittently because they periodically return to or extend their ranges into the site;

(D) were present at the site in the past, are not currently present at the site due to degraded conditions, and are expected to return to the site when conditions improve; or

(E) are present in nearby bodies of water, are not currently present at the site due to degraded conditions, and are expected to be present at the site when conditions improve.

The taxa that occur at the site cannot be determined merely by sampling downstream and upstream of the site at one (1) point in time. The term does not include taxa that were once present at the site but cannot exist at the site now due to permanent physical alteration of the habitat at the site, such as alterations resulting from dams.

(63) "Octanol-water partition coefficient" or "K_{OW}" means the ratio of the concentration of a substance in the n-octanol phase to its concentration in the aqueous phase in an equilibrated two-phase octanol-water system. For log K_{OW}, the log of the octanol-water partition coefficient is a base ten (10) logarithm.

(64) "Open waters of Lake Michigan" means the following:

(A) The waters within Lake Michigan lakeward, from a line drawn across the mouth of tributaries to the lake, including all waters enclosed by constructed breakwaters.

(B) For the Indiana Harbor Ship Canal, the boundary of the open waters of Lake Michigan is delineated by a line drawn across the mouth of the harbor from the East Breakwater Light (2016 United States Coast Guard Light List No. 19675) to the northernmost point of the shore line along the west side of the harbor.

(65) "Outstanding national resource water" has the meaning set forth at IC 13-11-2-149.5.

(66) "Outstanding state resource water" has the meaning set forth at IC 13-11-2-149.6.

(67) "Point source" has the meaning set forth in 327 IAC 5-1.5-40.

(68) "Policy" means a statement of administrative practice or decision making guidelines to be followed or implemented to the maximum extent feasible with respect to an identified problematic situation, but to be less than strictly enforceable in contrast to a standard or rule of law.

(69) "Public water supply" means a source of water for a public water system.

(70) "Public water system" has the meaning set forth in 42 U.S.C. 300f.

(71) "Quantitative structure activity relationship" or "QSAR" or "structure activity relationship" or "SAR" refers to a mathematical relationship between a property (activity) of a chemical and a number of descriptors of the chemical. These descriptors are chemical or physical characteristics obtained experimentally or predicted from the structure of the chemical.

(72) "Reference concentration" or "RfC" means an estimate, with uncertainty spanning an order of magnitude, of a continuous inhalation exposure to the human population, including sensitive subgroups, that is likely to be without appreciable risk of deleterious effects during a lifetime. It can be derived from a NOAEL, LOAEL, or BMD, with UFs generally applied to reflect limitations of the data used.

(73) "Reference dose" or "RfD" means an estimate, with uncertainty spanning an order of magnitude, of a daily oral

exposure to the human population, including sensitive subgroups, that is likely to be without appreciable risk of deleterious effects during a lifetime. It can be derived from a NOAEL, LOAEL, or BMD, with UFs generally applied to reflect limitations of the data used.

(74) "Relative source contribution" or "RSC" means the factor (percentage) used in calculating an HNV or HNC to account for all sources of exposure to a contaminant. The RSC reflects the percent of total exposure that may be attributed to surface water through water intake and fish consumption.

(75) "Risk" means the probability that a substance, when released to the environment, will cause an adverse effect in exposed humans or other living organisms.

(76) "Risk assessment" means the analytical process used to determine the level of risk.

(77) "Risk associated dose" or "RAD" refers to a dose of a known or presumed carcinogenic substance in milligrams per kilogram per day, which, over a lifetime of exposure, is estimated to be associated with a plausible upper bound incremental cancer risk equal to one (1) in one hundred thousand (100,000).

(78) "Secondary continuous concentration" or "SCC" means an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect. The SCC differs from the CCC in that fewer data are required to calculate the SCC than the CCC.

(79) "Secondary maximum concentration" or "SMC" means an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed briefly without resulting in an unacceptable effect. The SMC differs from the CMC in that fewer data are required to calculate the SMC than the CMC.

(80) "Slope factor", also known as "q_1*", means the incremental rate of cancer development calculated through use of a linearized multistage model or other appropriate model. Slope factor is expressed in milligrams per kilogram per day of exposure to the chemical in question.

(81) "Species mean acute value" or "SMAV" means the geometric mean of the results of all acceptable flow-through acute toxicity tests (for which the concentrations of the test material were measured) with the most sensitive tested life stage of the species. For a species for which no result is available for the most sensitive tested life stage, the SMAV is the geometric mean of the results of all acceptable acute toxicity tests with the most sensitive tested life stage.

(82) "Species mean chronic value" or "SMCV" means the geometric mean of the results of all acceptable life-cycle and partial life-cycle toxicity tests with the species; for a species of fish for which no result is available, the SMCV is the geometric mean of all acceptable early life-stage tests.

(83) "Steady-state" means an equilibrium condition has been achieved in the body burden of a substance in an organism. Steady-state is assumed when the rate of loss of a substance matches its rate of uptake.

(84) "Stream design flow" means the stream flow that represents critical conditions, upstream from the source, for protection of aquatic life, human health, or wildlife.

(85) "Subchronic effect" means an adverse effect, measured by assessing an acceptable endpoint, resulting from continual exposure for a period of time less than that deemed necessary for a chronic test.

(86) "Surface waters of the state" or "surface water" has the meaning set forth in IC 13-11-2-265, except that the term does not include underground waters with the exception of the following:

(A) The underground portion of the Lost River and its underground tributaries.

(B) Any other underground stream that supports fish or other higher aquatic life forms and its underground tributaries.

(87) "Threshold effect" means an effect of a substance for which there is a theoretical or empirically established dose or concentration below which the effect does not occur.

(88) "Tier I criteria" means numeric values derived by use of the Tier I procedures in sections 11 and 13 through 16 of this rule that either have been adopted as numeric criteria into a water quality standard or are used to implement narrative water quality criteria.

(89) "Tier II values" means numeric values derived by use of the Tier II procedures in sections 12 through 16 of this rule that are used to implement narrative water quality criteria.

(90) "Toxic substances" means substances that are or may become harmful to:

(A) aquatic life;

(B) humans;

(C) other animals;

(D) plants; or

(E) food chains;

when present in sufficient concentrations or combinations. Toxic substances include, but are not limited to, those pollutants identified as toxic under Section 307(a)(1) of the Clean Water Act.

(91) "Tributaries of the Great Lakes system" means all waters of the Great Lakes system that are not open waters of Lake Michigan.

(92) "Trophic level" means a functional classification of taxa within a community that is based on feeding relationships. For example, aquatic green plants comprise the first trophic level and herbivores comprise the second.

(93) "Uncertainty factor" or "UF" means one (1) of several numeric factors used in operationally deriving criteria from experimental data to account for the quality or quantity of the available data.

(94) "Uptake" means acquisition of a substance from the environment by an organism as a result of any active or passive process.

(95) "Variance" means a deviation from a water quality standard.

(96) "Water-effect ratio" or "WER" means the ratio that is computed as a specific pollutant's acute or chronic toxicity endpoint measured in water from the site covered by the criterion, divided by the respective acute or chronic toxicity endpoint in laboratory dilution water.

(97) "Waters of the state" has the meaning set forth in IC 13-11-2-265.

(98) "Water use designations" means a use of the waters of the state as established by this rule, including the following:

(A) Industrial water supply.

(B) Agricultural use.

(C) Public water supply.

(D) Full body contact.

(E) Aquatic life.

(F) Limited use.

(99) "Well-balanced aquatic community" means an aquatic community that:

(A) is diverse in species composition;

(B) contains several different trophic levels; and

(C) is not composed mainly of pollution tolerant species.

(100) "Wildlife criterion" or "WC" means the criterion used to denote the number derived from data meeting the Tier I minimum database requirements and will be protective of the two (2) classes of wildlife. The term is synonymous with GLWC, and the two (2) are used interchangeably.

(101) "Wildlife value" or "WV" means:

(A) a value used to denote each representative species that results from using the equation presented in section 15 of this rule;

(B) the value obtained from averaging species values within a class; or

(C) any value derived from application of the site-specific procedure provided in section 16 of this rule.

The WVs calculated for the representative species are used to calculate taxonomic class-specific WVs. The WV is the concentration of a substance that, if not exceeded, should better protect the taxon in question.

(102) "Zone of initial dilution" or "ZID" means the area of the receiving water directly after the end of the pipe where an instantaneous volume of water gives up to a one-to-one (1:1) dilution of the discharge.

(Water Pollution Control Division; 327 IAC 2-1.5-2; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1363; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2068; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)

327 IAC 2-1.5-3 Water quality goals

Authority: IC 13-12-3-1; IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4; IC 13-30-2-1

Sec. 3. The goal of the state is to restore and maintain the chemical, physical, and biological integrity of the waters of the state within the Great Lakes system. In furtherance of this primary goal, it is the public policy of the state that the discharge of:

(1) toxic substances in toxic amounts be prohibited; and

(2) persistent and bioaccumulating toxic substances be reduced or eliminated.

(Water Pollution Control Division; 327 IAC 2-1.5-3; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1368; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376)

327 IAC 2-1.5-4 Antidegradation standard *(Repealed)*

Sec. 4. *(Repealed by Water Pollution Control Division; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)*

327 IAC 2-1.5-5 Surface water use designations; multiple uses

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4; IC 13-30-2-1

Sec. 5. (a) The following water uses are designated by the board:

(1) Except as provided in subsection (c), surface waters of the state within the Great Lakes system are designated for full-body contact recreation.

(2) All surface waters, except as described in subdivision (7), shall be capable of supporting a well-balanced, warm water aquatic community.

(3) Where natural temperatures will permit, surface waters shall be capable of supporting put-and-take trout fishing. All waters capable of supporting the natural reproduction of trout shall be so maintained. The following waters are designated as salmonid waters and shall be capable of supporting a salmonid fishery:

(A) Trail Creek and its tributaries downstream to Lake Michigan.

(B) East Branch of the Little Calumet River and its tributaries downstream to Lake Michigan via Burns Ditch.

(C) Salt Creek above its confluence with the Little Calumet River.

(D) Kintzele Ditch (Black Ditch) from Beverly Drive downstream to Lake Michigan.

(E) The Galena River and its tributaries in LaPorte County.

(F) The St. Joseph River and its tributaries in St. Joseph County from the Twin Branch Dam in Mishawaka downstream to the Indiana/Michigan state line.

(G) The Indiana portion of the open waters of Lake Michigan.

(H) Those waters designated by the Indiana department of natural resources for put-and-take trout fishing.

(4) All surface waters used for public water supply are designated as a public water supply. This use designation and its corresponding water quality criteria are not to be construed as imposing a user restriction on those exercising or desiring to exercise the use.

(5) All surface waters used for industrial water supply are designated as an industrial water supply. This use designation and its corresponding water quality criteria are not to be construed as imposing a user restriction on those exercising or desiring to exercise the use.

(6) All surface waters used for agricultural purposes are designated as an agricultural use water.

(7) Limited use waters are designated under section 19(a) of this rule pursuant to section 18 of this rule. All waters that are designated as a limited use water under section 19(a) of this rule must be evaluated for restoration and upgrading at each triennial review of this rule.

(b) Where multiple uses have been designated for a body of water, the most protective of all simultaneously applicable standards will apply.

(c) A CSO wet weather limited use designation is established as a subcategory of the recreational use designation established under subsection (a). This subcategory shall be applied in accordance with 327 IAC 2-1-3.1. *(Water Pollution Control Division; 327 IAC 2-1.5-5; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1369; filed Sep 6, 2007, 12:25 p.m.: 20071003-IR-327050218FRA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)*

327 IAC 2-1.5-6 Bioaccumulative chemicals of concern

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4; IC 13-30-2-1

Sec. 6. (a) A bioaccumulative chemical of concern (BCC) is any chemical that meets the following requirements:

(1) Has the potential to cause adverse effects.
(2) Has a half-life of at least eight (8) weeks in the water column, sediment, and biota.
(3) Upon entering the surface waters, by itself or as its toxic transformation product, accumulates in aquatic organisms by a human health bioaccumulation factor (BAF) greater than one thousand (1,000) after considering metabolism and other physicochemical properties that might enhance or inhibit bioaccumulation, in accordance with the procedure in section 13 of this rule. The minimum BAF information needed to define a chemical as a BCC is either of the following:
(A) For an organic chemical, either a field-measured BAF or a BAF derived using the BSAF methodology.
(B) For an inorganic chemical, including an organometal, either a field-measured BAF or a laboratory-measured BCF.

(b) Pollutants that are BCCs include, but are not limited to, the following:

Table 6-1

Bioaccumulative Chemicals of Concern

CAS Number	Substance
57749	Chlordane
72548	4,4'-DDD; p,p'-DDD; 4,4'-TDE; p,p'-TDE
72559	4,4'-DDE; p,p'-DDE
50293	4,4'-DDT; p,p'-DDT
60571	Dieldrin
118741	Hexachlorobenzene
87683	Hexachlorobutadiene; hexachloro-1,3-butadiene
608731	Hexachlorocyclohexanes; BHCs
319846	alpha-Hexachlorocyclohexane; alpha-BHC
319857	beta-Hexachlorocyclohexane; beta-BHC
319868	delta-Hexachlorocyclohexane; delta-BHC
58899	Lindane; gamma-Hexachlorocyclohexane; gamma-BHC
7439976	Mercury
2385855	Mirex
29082744	Octachlorostyrene
1336363	PCBs; polychlorinated biphenyls
608935	Pentachlorobenzene
39801144	Photomirex
1746016	2,3,7,8-TCDD; dioxin
634662	1,2,3,4-Tetrachlorobenzene
95943	1,2,4,5-Tetrachlorobenzene
8001352	Toxaphene

(c) The substances established in this subsection shall be treated as BCCs under 327 IAC 2-1.3, this rule, and 327 IAC 5-2-11.4 through 327 IAC 5-2-11.6. If additional data becomes available (such as a field-measured BAF) for a substance established in this subsection that conclusively demonstrates that the substance should not be treated as a BCC, the commissioner may determine that it is not necessary to treat the substance as a BCC. Substances treated as BCCs include the following:

Table 6-2

Substances Treated as Bioaccumulative Chemicals of Concern

CAS Number	Substance
309002	Aldrin
72208	Endrin
76448	Heptachlor

(Water Pollution Control Division; 327 IAC 2-1.5-6; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1370; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2074; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA)

327 IAC 2-1.5-7 Mixing zone guidelines

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 7. (a) All surface water quality criteria in this rule, except as provided in section 8(b)(1) of this rule, are to be applied at a point outside of the mixing zone as determined under 327 IAC 5-2-11.4 to allow for a reasonable admixture of waste effluents with the receiving waters.

(b) The commissioner may deny any mixing zone for a discharge or for certain substances in a discharge in accordance with 327 IAC 5-2-11.4(b)(5) and 327 IAC 5-2-11.4(b)(6). *(Water Pollution Control Division; 327 IAC 2-1.5-7; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1370)*

327 IAC 2-1.5-8 Minimum surface water quality criteria

Authority: IC 13-14-8-2; IC 13-14-8-3; IC 13-18-4-3
Affected: IC 13-11-2-258; IC 13-18-4; IC 13-30-2-1; IC 14-22-9

Sec. 8. (a) All surface water quality criteria in this section, except those provided in subsection (b)(1), are not applicable when the stream flows are less than the applicable stream design flow for the particular criterion as determined under 327 IAC 5-2-11.4.

(b) The following are minimum surface water quality conditions:

(1) All surface waters within the Great Lakes system, including waters within a mixing zone, must be free from substances, materials, floating debris, oil, or scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:

(A) Settle to form putrescent or otherwise objectionable deposits.

(B) Occur in amounts sufficient to be unsightly or deleterious.

(C) Produce:

(i) color;

(ii) visible oil sheen;

(iii) odor; or

(iv) other conditions;

to an extent that creates a nuisance.

(D) Occur in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to a degree as to:

(i) create a nuisance;

(ii) be unsightly; or

(iii) otherwise impair the designated uses of the surface waters.

(E) Occur in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill, aquatic life, other animals, plants, or humans. To ensure protection of aquatic life, the surface waters must meet the following requirements:

(i) Concentrations of toxic substances must not exceed the CMC or SMC outside the zone of initial dilution or the final acute value (FAV = 2 (CMC) or 2 (SMC)) in the undiluted discharge unless, for a discharge to a receiving stream or Lake Michigan, an alternate mixing zone demonstration is conducted and approved in accordance with 327 IAC 5-2-11.4(b)(4), in which case, the CMC or SMC must be met outside the applicable alternate mixing zone. The following apply where applicable:

(AA) For certain substances, a CMC is specified in:

(aa) subdivision (3), Table 8-1, which incorporates subdivision (4), Table 8-2; and

(bb) subdivision (5).

(BB) For substances for which a CMC is not specified in subdivision (3), Table 8-1, subdivision (4), Table 8-2, or subdivision (5):

(aa) a CMC must be calculated by the commissioner using the procedures in section 11 of this rule; or

(bb) if the minimum data requirements to calculate a CMC are not met, an SMC must be calculated using the procedures in section 12 of this rule.

(CC) The CMC or SMC determined under subitem (AA) or (BB) may be modified on a site-specific basis to reflect local conditions in accordance with section 16 of this rule.

(ii) A discharge must not cause acute toxicity, as measured by whole effluent toxicity tests, at any point in the waterbody. Compliance with this criterion is demonstrated if a discharge does not exceed one and zero-tenths (1.0) TU_a in the undiluted discharge. For a discharge into a receiving stream or Lake Michigan, for which an alternate mixing zone demonstration is conducted and approved in accordance with 327 IAC 5-2-11.4(b)(4), compliance with this criterion is demonstrated if three-tenths (0.3) TU_a is not exceeded outside the applicable alternate mixing zone.

(F) Clause (E) does not apply to the chemical control of plants and animals when that control is performed in compliance with approval conditions specified by the Indiana department of natural resources as provided by IC 14-22-9.

(2) All surface waters outside of the applicable mixing zones determined in accordance with section 7 of this rule must be free of substances in concentrations that, on the basis of available scientific data, are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants. To ensure protection against the adverse effects identified in this subdivision, a toxic substance or pollutant must not be present in surface waters outside of the applicable mixing zones determined in accordance with section 7 of this rule in concentrations that exceed the most stringent of the following:

(A) A CCC or SCC to protect aquatic life from chronic toxic effects, which is determined as follows:

(i) For certain substances, a CCC is specified in:

(AA) subdivision (3), Table 8-1, which incorporates subdivision (4), Table 8-2;

(BB) subdivision (3), Table 8-1a; and

(CC) subdivision (5).

(ii) For substances for which a CCC is not specified in subdivision (3), Table 8-1, subdivision (3), Table 8-1a, subdivision (4), Table 8-2, or subdivision (5):

(AA) a CCC must be calculated by the commissioner using the procedures in section 11 of this rule; or

(BB) if the minimum data requirements to calculate a CCC are not met, an SCC must be calculated using the procedures in section 12 of this rule.

(iii) The CCC or SCC determined under item (i)(AA), (i)(CC), or (ii) may be modified on a site-specific basis to reflect local conditions in accordance with section 16 of this rule.

(iv) To ensure protection of aquatic life, a discharge must not cause chronic toxicity, as measured by whole effluent toxicity tests, outside of the applicable mixing zone. Compliance with this criterion is demonstrated if the waterbody does not exceed one and zero-tenths (1.0) TU_c at the edge of the mixing zone.

(B) An HNC or HNV to protect human health from adverse noncancer effects that may result from the consumption of aquatic organisms or drinking water from the waterbody, which is determined as follows:

(i) For certain substances, an HNC is specified in subdivision (6), Table 8-3.

(ii) For substances for which an HNC is not specified in subdivision (6), Table 8-3:

(AA) an HNC must be calculated by the commissioner using the procedures in section 14 of this rule; or

(BB) if the minimum data requirements to calculate an HNC are not met, an HNV must be calculated using the procedures in section 14 of this rule.

(iii) The HNC or HNV determined under item (i) or (ii) may be modified on a site-specific basis to reflect local conditions in accordance with section 16 of this rule.

(iv) The HNC for nondrinking water or HNV for nondrinking water for a substance applies to all surface waters outside the applicable mixing zone for a discharge of that substance. The HNC for drinking water or HNV for drinking water for a substance applies at the point of the public water system intake.

(C) For carcinogenic substances, an HCC or HCV to protect human health from unacceptable cancer risk of greater than one (1) additional occurrence of cancer per one hundred thousand (100,000) population, which is determined

as follows:

(i) For certain substances, an HCC is specified in subdivision (6), Table 8-3.

(ii) For substances for which an HCC is not specified in subdivision (6), Table 8-3:

(AA) an HCC must be calculated by the commissioner using the procedures in section 14 of this rule; or

(BB) if the minimum data requirements to calculate an HCC are not met, an HCV must be calculated using the procedures in section 14 of this rule.

(iii) The HCC or HCV determined under item (i) or (ii) may be modified on a site-specific basis to reflect local conditions in accordance with section 16 of this rule.

(iv) The HCC for nondrinking water or HCV for nondrinking water for a substance applies to all surface waters outside the applicable mixing zone for a discharge of that substance. The HCC for drinking water or HCV for drinking water applies at the point of the public water system intake.

(D) A WC to protect avian and mammalian wildlife populations from adverse effects that may result from the consumption of aquatic organisms or water from the waterbody, which is determined as follows:

(i) For certain substances, a WC is specified in subdivision (7), Table 8-4.

(ii) For substances for which a WC is not specified in subdivision (7), Table 8-4:

(AA) a WC must be calculated by the commissioner using the procedures in section 15 of this rule; or

(BB) if the minimum data requirements to calculate a WC are not met, a WV may be calculated using the procedures in section 15 of this rule.

(iii) The WC or WV determined under item (i) or (ii) may be modified on a site-specific basis to reflect local conditions in accordance with section 16 of this rule.

(3) Surface water quality criteria for protection of aquatic life are as follows:

(A) The surface water quality criteria for the protection of aquatic life for specific substances are as follows:

Table 8-1

Surface Water Quality Criteria for Protection of Aquatic Life

CAS Number	Substances	Criterion Maximum Concentration (CMC) (Maximum) (µg/L)[1]	CMC Conversion Factors (CF)	Criterion Continuous Concentration (CCC) (4-Day Average) (µg/L)[1]	CCC Conversion Factors (CF)
Metals (dissolved)[2][3]					
7440382	Arsenic	WER(340)(CF)	1.000	WER(150)(CF)	1.000
7440439	Cadmium	WER ($e^{(0.9789\ [lnH]\ -\ 3.866)}$)(CF)	1.136672 - [lnH] 0.041838	WER ($e^{(0.7977[lnH]\ -\ 3.909)}$)(CF)	1.101672 - [ln H]0.041838
7440473	Chromium (III)	WER ($e^{(0.819\ [lnH]\ +\ 3.7256)}$)(CF)	0.316	WER ($e^{(0.819\ [lnH]\ +\ 0.6848)}$)(CF)	0.860
7440473	Chromium (VI)	WER(16)(CF)	0.982	WER(11)(CF)	0.962
7440508	Copper	WER ($e^{(0.9422[lnH]\ -\ 1.700)}$)(CF)	0.960	WER ($e^{(0.8545[lnH]\ -\ 1.702)}$)(CF)	0.960
7439921	Lead	WER ($e^{(1.273[lnH]\ -\ 1.460)}$)(CF)	1.46203 - [lnH]0.145712	WER ($e^{(1.273[lnH]\ -\ 4.705)}$)(CF)	1.46203 - [lnH]0.145712
7439976	Mercury	WER(1.694)(CF)	0.85	WER(0.9081)(CF)	0.85
7440020	Nickel	WER ($e^{(0.846\ [lnH]\ +\ 2.255)}$)(CF)	0.998	WER ($e^{(0.846\ [lnH]\ +\ 0.0584)}$)(CF)	0.997
7440666	Zinc	WER ($e^{(0.8473\ [lnH]\ +\ 0.884)}$)(CF)	0.978	WER ($e^{(0.8473\ [lnH]\ +\ 0.884)}$)(CF)	0.986
Organics (Total)					
60571	Dieldrin	0.24	NA	0.056	NA

72208	Endrin	0.086	NA	0.036	NA
56382	Parathion	0.065	NA	0.013	NA
87865	Pentachlorophenol[4]	$e^{(1.005[pH] - 4.869)}$	NA	$e^{(1.005[pH] - 5.134)}$	NA
Other Substances					
	Chlorine (total residual)	19	NA	11	NA
	Chlorine (intermittent, total residual)[5]	200	NA		NA
57125	Cyanide (free)	22	NA	5.2	NA
Selenium CCC are specified in clause (B)					
Chloride CMC and CCC are specified in subdivision (5)[1]					

[1]Aquatic organisms should not be affected unacceptably if the four (4) day average concentration specified in this table for a substance does not exceed the CCC more than once every three (3) years on the average and if the one (1) hour average concentration does not exceed the CMC more than once every three (3) years on the average, except possibly where a commercially or recreationally important species is very sensitive.

[2]Aquatic life criteria for these metals are expressed as a dissolved concentration and are calculated using the water-effect ratio (WER) and the specified conversion factor (CF). The CMC and CCC for a dissolved metal are calculated by multiplying the WER by the criterion value or formula and then by the appropriate CF. A value of one (1) must be used for the WER unless an alternate value is established under section 16 of this rule. The dissolved CMC and CCC must be rounded to two (2) significant digits, except when the criteria are used as intermediate values in a calculation, such as in the calculation of water quality-based effluent limitations (WQBELs).

[3]The hardness values used in the equations for these criteria must not be greater than 400 mg/l as calcium carbonate ($CaCO_3$), and the criteria at a hardness of 400 mg/l as $CaCO_3$ are used for a water hardness above 400 mg/l as $CaCO_3$. The term "lnH" is the natural log of hardness.

[4]A CMC and CCC calculated for pentachlorophenol using the equation in this table must be rounded to two (2) significant digits, except when the criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

[5] To be considered an intermittent discharge, total residual chlorine must not be detected in the discharge for a period of more than forty (40) minutes in duration, and these time periods must be separated by at least five (5) hours.

(B) The surface water quality criterion for the protection of aquatic life for selenium is as follows:

Table 8-1a				
Surface Water Quality Aquatic Life Criterion for Selenium (CAS # 7782492)				
Criterion Continuous Concentration (CCC)				
Media Type	Fish Tissue[1]		Water Column[5][7]	
Criterion Element	Egg/Ovary[2]	Fish Whole-Body or Muscle[3]	Monthly Average Exposure	Intermittent Exposure[6]
Magnitude	15.1 mg/kg dw	8.5 mg/kg dw whole-body or 11.3 mg/kg dw muscle (skinless, boneless filet)	1.5 µg/l in lentic aquatic systems 3.1 µg/l in lotic aquatic systems	$WQC_{int} = \frac{WQC_{30\text{-day}} - C_{bkgrnd}(1-f_{int})}{f_{int}}$
Duration	Instantaneous measurement[4]	Instantaneous measurement[4]	Thirty (30) days	Number of days per month with an elevated concentration
Frequency	Not to be exceeded	Not to be exceeded	Not more than once in three (3) years on average	Not more than once in three (3) years on average

[1]Fish tissue elements are expressed as steady-state; the aquatic system should not be experiencing new or increasing inputs of

selenium.

[2]Egg or ovary supersedes any whole-body, muscle, or water column element when fish egg or ovary concentrations are measured. Any proposal to sample egg or ovary fish tissue must be submitted to the department for review and approval prior to initiation of sampling, and the department will evaluate all representative egg or ovary fish tissue data to determine compliance with this criterion element.

[3]Fish whole-body or muscle tissue supersedes the water column element when both fish tissue and water concentrations are measured. Any proposal to sample fish whole-body or muscle tissue must be submitted to the department for review and approval prior to initiation of sampling, and the department will evaluate all representative fish whole-body or muscle tissue data to determine compliance with this criterion element.

[4]Fish tissue data provide instantaneous point measurements that reflect integrative accumulation of selenium over time and space in fish populations at a given site.

[5]Water column values are the applicable criterion element in the absence of steady-state condition fish tissue data and for fishless waters. Water column values are based on dissolved total selenium in water and are derived from fish tissue values via bioaccumulation modeling. Instead of the requirement in 327 IAC 5-2-11.4(b)(3)(A)(i)(CC), the thirty (30) day, ten (10) year stream design flow ($Q_{30,10}$) must be used for deriving total maximum daily loads (TMDLs), waste load allocations (WLAs) in the absence of TMDLs, and preliminary WLAs for tributaries of the Great Lakes system that exhibit appreciable flows relative to their volumes for the CCC water column criterion element applicable to lotic aquatic systems unless data exist to demonstrate that an alternate stream design flow is appropriate for stream-specific and pollutant-specific conditions.

[6]Intermittent Exposure Equation variables mean the following:

WQC_{int} is the water column intermittent element.

$WQC_{30\text{-}day}$ is the water column monthly element for either lentic or lotic waters.

C_{bkgrnd} is the average background selenium concentration.

f_{int} is the fraction of any 30-day period during which elevated selenium concentrations occur, with f_{int} assigned a value ≥ 0.033 (corresponding to one (1) day).

[7]The water column criterion element may be modified on a site-specific basis in accordance with clause (C).

(C) Modification of the selenium water column criterion element must be achieved according to the following:

(i) Site-specific water column criterion elements must be derived using either the empirical bioaccumulation factor (BAF) or mechanistic modeling method provided in Aquatic Life Ambient Water Quality Criterion for Selenium – Freshwater, EPA-822-R-16-006, Appendix K: Translation of a Selenium Fish Tissue Criterion Element to a Site-Specific Water Column Value (June 2016)*.

(ii) Any proposal to derive a site-specific water column criterion element must be submitted to the department for review and approval of the methodology and sampling plan prior to initiation of sampling. The department shall evaluate and approve the applicability of and use of all representative data used to derive a site-specific water column criterion element.

(iii) Any proposal to derive a site-specific water column criterion element must be protective of downstream designated uses for aquatic life and human health.

(iv) Upon receipt of an application for a site-specific water column criterion element, the department shall do the following:

(AA) Publish on the department's website all pertinent information about the proposed site-specific modification.

(BB) Provide notice and request comment on the application.

(v) Upon approval of a site-specific water column criterion element, the department shall do the following:

(AA) Publish a notice in the Indiana Register.

(BB) Place on the department's website all pertinent information about the approved site-specific modification.

(CC) Submit the site-specific modification to U.S. EPA for approval.

(DD) If approved by U.S. EPA, incorporate the site-specific modification into the water quality standards during the next revision of the water quality standards.

(vi) Site-specific modifications of this criterion must not be incorporated into a final NPDES permit or used for other Clean Water Act purposes until approved by U.S. EPA.

(4) The dissolved CMC and CCC for certain metals at selected hardness values calculated from the equations and conversion factors in subdivision (3), Table 8-1 with a value of one (1) used for the WER are as follows:

Table 8-2

Metals Concentrations in Micrograms Per Liter; Hardness in Milligrams Per Liter $CaCO_3$[1]

	Arsenic		Cadmium		Chromium (III)		Chromium (VI)		Copper	
Hardness	CMC	CCC	CMC	CCC	CMC	CCC	CMC	CCC	CMC	CCC
50	340	150	0.94	0.43	320	42	16	11	7.0	5.0
100	340	150	1.8	0.72	570	74	16	11	13	9.0
150	340	150	2.6	0.97	790	100	16	11	20	13
200	340	150	3.4	1.2	1,000	130	16	11	26	16
250	340	150	4.2	1.4	1,200	160	16	11	32	20
300	340	150	5.0	1.6	1,400	180	16	11	38	23
350	340	150	5.8	1.8	1,600	210	16	11	44	26
400	340	150	6.5	2.0	1,800	230	16	11	50	29

	Lead		Mercury		Nickel		Zinc	
Hardness	CMC	CCC	CMC	CCC	CMC	CCC	CMC	CCC
50	30	1.2	1.4	0.77	260	29	65	66
100	65	2.5	1.4	0.77	470	52	120	120
150	100	3.9	1.4	0.77	660	73	170	170
200	140	5.3	1.4	0.77	840	93	210	210
250	170	6.7	1.4	0.77	1,000	110	250	260
300	210	8.1	1.4	0.77	1,200	130	300	300
350	240	9.5	1.4	0.77	1,400	150	340	340
400	280	11	1.4	0.77	1,500	170	380	380

[1] The dissolved metals criteria in this table have been rounded to two (2) significant digits in accordance with subdivision (3), Table 8-1. The equations and conversion factors in subdivision (3), Table 8-1 must be used instead of the criteria in this table when these criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(5) Surface water quality criteria for chloride for protection of aquatic life are as follows:

(A) The CMC for chloride as a function of hardness (in mg/l as $CaCO_3$) and sulfate (in mg/l) in surface waters is calculated using the following formula:

$$C = 287.8 (\text{hardness})^{0.205797} (\text{sulfate})^{-0.07452}$$

Where: C = chloride CMC (maximum) in mg/l.

(B) The CCC for chloride as a function of hardness (in mg/l as $CaCO_3$) and sulfate (in mg/l) in surface waters is calculated using the following formula:

$$C = 177.87 (\text{hardness})^{0.205797} (\text{sulfate})^{-0.07452}$$

Where: C = chloride CCC (4-Day Average) in mg/l.

(C) The CMC and CCC for chloride calculated from the equations in this subdivision must be rounded to the nearest whole numbers, except when the criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(D) The CMC for chloride in mg/l at selected concentrations of hardness (in mg/l as $CaCO_3$) and sulfate is as follows:

Table 8-2a[1]

Sulfate (mg/l)	Hardness (mg/l) 50	100	150	200	250	300	350	400	450	500
15	526	607	660	700	733	761	785	807	827	845
20	515	594	646	685	717	745	769	790	809	827
25	506	584	635	674	705	732	756	777	796	813
50	481	555	603	640	670	695	718	738	756	773
100	457	527	573	608	636	660	682	701	718	734
150	443	511	556	589	617	641	661	680	697	712
200	434	500	544	577	604	627	647	665	682	697
250	427	492	535	567	594	617	637	654	671	685
300	421	485	528	560	586	609	628	646	661	676
350	416	480	522	553	579	602	621	638	654	668
400	412	475	516	548	574	596	615	632	647	662
450	408	471	512	543	569	590	609	626	642	656
500	405	467	508	539	564	586	605	622	637	651

[1] The equation in clause (A) must be used instead of the criteria in this table when chloride criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(E) The CCC for chloride in mg/l at selected concentrations of hardness (in mg/l as $CaCO_3$) and sulfate is as follows:

Table 8-2b[1]

Sulfate (mg/l)	Hardness (mg/l) 50	100	150	200	250	300	350	400	450	500
15	325	375	408	433	453	470	485	499	511	522
20	318	367	399	423	443	460	475	488	500	511
25	313	361	392	416	436	453	467	480	492	503
50	297	343	373	395	414	430	444	456	467	477
100	282	326	354	375	393	408	421	433	444	453
150	274	316	343	364	381	396	409	420	430	440
200	268	309	336	357	373	388	400	411	421	431
250	264	304	331	351	367	381	394	404	414	423
300	260	300	326	346	362	376	388	399	409	418
350	257	297	322	342	358	372	384	394	404	413
400	255	294	319	339	355	368	380	391	400	409
450	252	291	316	336	351	365	377	387	397	405
500	250	289	314	333	349	362	374	384	394	402

[1] The equation in clause (B) must be used instead of the criteria in this table when chloride criteria are used as intermediate values in a calculation, such as in the calculation of WQBELs.

(6) Surface water quality criteria for protection of human health are as follows:

Table 8-3

Surface Water Quality Criteria for Protection of Human Health[1]

	Human Noncancer Criteria (HNC)	Human Cancer Criteria (HCC)

CAS Number	Substances	Drinking Water (µg/l)	Nondrinking Water (µg/l)	Drinking Water (µg/l)	Nondrinking Water (µg/l)
	Metals (total recoverable)				
7439976	Mercury (including methylmercury)	0.0018	0.0018		
	Organics (total)				
71432	Benzene	19	510	12	310
57749	Chlordane	0.0014	0.0014	0.00025	0.00025
108907	Chlorobenzene	470	3,200		
50293	DDT	0.002	0.002	0.00015	0.00015
60571	Dieldrin	0.00041	0.00041	6.5×10^{-6}	6.5×10^{-6}
105679	2,4-dimethylphenol	450	8,700		
51285	2,4-dinitrophenol	55	2,800		
118741	Hexachlorobenzene	0.046	0.046	0.00045	0.00045
67721	Hexachloroethane	6	7.6	5.3	6.7
58899	Lindane	0.47	0.5		
75092	Methylene chloride	1,600	90,000	47	2600
1336363	PCBs (class)			6.8×10^{-6}	6.8×10^{-6}
1746016	2,3,7,8-TCDD (dioxin)	6.7×10^{-8}	6.7×10^{-8}	8.6×10^{-9}	8.6×10^{-9}
108883	Toluene	5,600	51,000		
8001352	Toxaphene			6.8×10^{-5}	6.8×10^{-5}
79016	Trichloroethylene			29	370
	Other Substances				
57125	Cyanide (total)	600	48,000		

[1]The HNC and HCC are thirty (30) day average criteria.

(7) Surface water quality criteria for protection of wildlife are as follows:

Table 8-4

Surface Water Quality Criteria for Protection of Wildlife[1]

CAS Number	Substances	Wildlife Criteria (µg/l)
	Metals (total recoverable)	
7439976	Mercury (including methylmercury)	0.0013
	Organics (total)	
50293	DDT and metabolites	1.1×10^{-5}
1336363	PCBs (class)	1.2×10^{-4}
1746016	2, 3, 7, 8-TCDD (dioxin)	3.1×10^{-9}

[1]The WC are thirty (30) day average criteria.

(c) In addition to subsection (b), the following minimum conditions are applicable in the surface waters outside of the applicable mixing zone, as determined in accordance with section 7 of this rule, to ensure conditions necessary for the maintenance of a well-balanced aquatic community:

(1) There must be no substance that:

(A) imparts unpalatable flavor to food fish; or

(B) results in offensive odors in the vicinity of the water.

(2) No pH values below six (6.0) or above nine (9.0) are permitted, except daily fluctuations that:

(A) exceed pH nine (9.0); and

(B) are correlated with photosynthetic activity.

(3) Concentrations of dissolved oxygen must:

(A) average at least five (5.0) milligrams per liter per calendar day; and

(B) not be less than four (4.0) milligrams per liter at any time.

(4) Conditions for temperature are as follows:

(A) Abnormal temperature changes that may adversely affect aquatic life are prohibited unless caused by natural conditions.

(B) The normal daily and seasonal temperature fluctuations that existed before the addition of heat due to other than natural causes must be maintained.

(C) Water temperatures must not exceed the maximum limits in the following table:

(i) during more than one percent (1%) of the hours in the twelve (12) month period ending with any month; and

(ii) by more than three (3) degrees Fahrenheit (one and seven-tenths (1.7) degrees Celsius):

Table 8-5

Maximum Instream Water Temperatures

Month	St. Joseph River Tributary to Lake Michigan Upstream of the Twin Branch Dam °F(°C)	All Other Indiana Streams in the Great Lakes System °F(°C)
January	50 (10)	50 (10)
February	50 (10)	50 (10)
March	55 (12.8)	60 (15.6)
April	65 (18.3)	70 (21.1)
May	75 (23.9)	80 (26.7)
June	85 (29.4)	90 (32.2)
July	85 (29.4)	90 (32.2)
August	85 (29.4)	90 (32.2)
September	84 (29.4)	90 (32.2)
October	70 (21.1)	78 (25.5)
November	60 (15.6)	70 (21.1)
December	50 (10)	57 (14.0)

(D) The following temperature criteria apply to Lake Michigan:

(i) In all receiving waters, the points of measurement normally must be in the first meter below the surface at depths necessary to avoid thin layer surface warming due to extreme ambient air temperatures, but, where required to determine the true distribution of heated wastes and natural variations in water temperatures, measurements must be at a greater depth and at several depths as a thermal profile.

(ii) Abnormal temperature changes injurious to fish, wildlife, or other aquatic life, or the growth or propagation thereof, are prohibited. In addition, plume interaction with the bottom must:

(AA) be minimized; and

(BB) not injuriously affect fish, shellfish, and wildlife spawning or nursery areas.

(iii) The normal daily and seasonal temperature fluctuations that existed before the addition of heat must be maintained.

(iv) At any time and at a maximum distance of a one thousand (1,000) foot arc inscribed from a fixed point adjacent to the discharge or as agreed upon by the commissioner and federal regulatory agencies, the following apply:

(AA) The receiving water temperature must not be more than three (3) degrees Fahrenheit (one and seven-tenths (1.7) degrees Celsius) above the existing natural water temperature.

(BB) Thermal discharges to Lake Michigan must comply with the following maximum temperature requirements:

(aa) Thermal discharges to Lake Michigan must not raise the maximum temperature in the

receiving water above those listed in the following table, except to the extent the permittee adequately demonstrates that the exceedance is caused by the water temperature of the intake water:

Table 8-6
Maximum Water Temperatures

Month	°F(°C)
January	45 (7)
February	45 (7)
March	45 (7)
April	55 (13)
May	60 (16)
June	70 (21)
July	80 (27)
August	80 (27)
September	80 (27)
October	65 (18)
November	60 (16)
December	50 (10)

(bb) If the permittee demonstrates that the intake water temperature is within three (3) degrees Fahrenheit below an applicable maximum temperature under subitem (aa), Table 8-6, then not more than a three (3) degree Fahrenheit exceedance of the maximum water temperature is permitted.

(v) The following facilities that discharge into the open waters of Lake Michigan are limited to the amount essential for blowdown in the operation of a closed cycle cooling facility:

(AA) All facilities that have new waste heat discharges exceeding a daily average of five-tenths (0.5) billion British thermal units (Btu) per hour. As used in this item, "new waste heat discharge" means any discharge that had not begun operations as of February 11, 1972.

(BB) All facilities with existing waste heat discharges that increase the quantity of waste heat discharged by more than a daily average of five-tenths (0.5) billion Btu per hour.

(vi) Water intakes must be designed and located to minimize entrainment and damage to desirable organisms. Requirements may vary depending upon local conditions, but, in general, intakes must:

(AA) have minimum water velocity; and

(BB) not be located in spawning or nursery areas of important fishes.

Water velocity at screens and other exclusion devices must be at a minimum.

(vii) Discharges other than those in existence on or before February 11, 1972, must not have thermal plumes that overlap or intersect.

(viii) Facilities discharging more than a daily average of five-tenths (0.5) billion Btu of waste heat must:

(AA) continuously record intake and discharge temperature and flow; and

(BB) make those records available to the public or regulatory agencies upon request.

(5) The following criteria must be used to regulate ammonia:

(A) Concentrations of total ammonia (as N) must not exceed the CMC outside the zone of initial dilution or the final acute value (FAV = 2 (CMC)) in the undiluted discharge unless, for a discharge to a receiving stream or Lake Michigan, an alternate mixing zone demonstration is conducted and approved in accordance with 327 IAC 5-2-11.4(b)(4), in which case, the CMC must be met outside the applicable alternate mixing zone. The CMC of total ammonia (as N) is determined using the following equation:

$$CMC = \frac{(0.822)(0.52)(10^{(pk_a - pH)} + 1)}{(FT)(FPH)(2)}$$

Where: $FT = 10^{0.03(20-T)}$

$FPH = 1$; when: $8 \le pH \le 9$; or

$$\frac{1 + 10^{(7.4 - pH)}}{1.25}; \text{ when: } 6.5 \le pH \le 8$$

$$pK_a = 0.09018 + \frac{2729}{T + 273.2}$$

T = Temperature in °C

(B) The CCC of total ammonia (as N) is determined using the following equation:

$$CCC = \frac{(0.822)(0.80)(10^{(pk_a - pH)} + 1)}{(FT)(FPH)(RATIO)}$$

Where: $FT = 10^{0.03(20-T)}$

$FPH = 1$; when: $8 \le pH \le 9$; or

$$\frac{1 + 10^{(7.4 - pH)}}{1.25}; \text{ when } 6.5 \le pH \le 8$$

$RATIO = 13.5$; when: $7.7 \le pH \le 9$; or

$$\frac{(20)(10^{(7.7 - pH)})}{1 + 10^{(7.4 - pH)}}; \text{ when } 6.5 \le pH \le 7.7$$

$$pK_a = 0.09018 + \frac{2729}{T + 273.2}$$

T = Temperature in °C

(C) The use of the equations in clause (A) results in the following CMCs for total ammonia (as N) at different temperatures and pHs:

Table 8-7

Criterion Maximum Concentrations for Total Ammonia (as N) Temperature (°C)

pH	0	5	10	15	20	25	30
6.5	28.48	26.61	25.23	24.26	23.64	23.32	23.29
6.6	27.68	25.87	24.53	23.59	22.98	22.68	22.65
6.7	26.74	24.99	23.69	22.78	22.20	21.92	21.90
6.8	25.64	23.96	22.72	21.85	21.30	21.03	21.01
6.9	24.37	22.78	21.60	20.78	20.26	20.01	20.00
7.0	22.95	21.45	20.35	19.58	19.09	18.86	18.86
7.1	21.38	19.98	18.96	18.24	17.80	17.59	17.60
7.2	19.68	18.40	17.46	16.81	16.40	16.22	16.24
7.3	17.90	16.73	15.88	15.29	14.93	14.78	14.81
7.4	16.06	15.02	14.26	13.74	13.42	13.30	13.35
7.5	14.23	13.31	12.64	12.19	11.92	11.81	11.88
7.6	12.44	11.65	11.07	10.67	10.45	10.37	10.45
7.7	10.75	10.06	9.569	9.238	9.052	9.003	9.088
7.8	9.177	8.597	8.181	7.907	7.760	7.734	7.830
7.9	7.753	7.268	6.924	6.701	6.589	6.584	6.689
8.0	6.496	6.095	5.813	5.636	5.555	5.569	5.683

8.1	5.171	4.857	4.639	4.508	4.457	4.486	4.602
8.2	4.119	3.873	3.707	3.612	3.584	3.625	3.743
8.3	3.283	3.092	2.967	2.900	2.891	2.942	3.061
8.4	2.618	2.472	2.379	2.335	2.340	2.399	2.519
8.5	2.091	1.979	1.911	1.886	1.903	1.968	2.089
8.6	1.672	1.588	1.540	1.529	1.555	1.625	1.747
8.7	1.339	1.277	1.246	1.246	1.279	1.353	1.475
8.8	1.075	1.030	1.011	1.021	1.060	1.137	1.260
8.9	0.8647	0.8336	0.8254	0.8418	0.8862	0.9650	1.088
9.0	0.6979	0.6777	0.6777	0.6998	0.7479	0.8286	0.9521

(D) The use of the equations in clause (B) results in the following CCCs for total ammonia (as N) at different temperatures and pHs:

Table 8-8

Criterion Continuous Concentrations for Total Ammonia (as N) Temperature (°C)

pH	0	5	10	15	20	25	30
6.5	2.473	2.310	2.191	2.106	2.052	2.025	2.022
6.6	2.473	2.311	2.191	2.107	2.053	2.026	2.023
6.7	2.473	2.311	2.191	2.107	2.054	2.027	2.025
6.8	2.473	2.311	2.192	2.108	2.055	2.028	2.027
6.9	2.474	2.312	2.193	2.109	2.056	2.030	2.030
7.0	2.474	2.312	2.193	2.110	2.058	2.033	2.033
7.1	2.475	2.313	2.195	2.112	2.060	2.036	2.037
7.2	2.475	2.314	2.196	2.114	2.063	2.040	2.043
7.3	2.476	2.315	2.198	2.116	2.066	2.044	2.050
7.4	2.477	2.317	2.200	2.119	2.070	2.050	2.058
7.5	2.478	2.319	2.202	2.123	2.075	2.058	2.069
7.6	2.480	2.321	2.206	2.128	2.082	2.067	2.082
7.7	2.450	2.294	2.181	2.106	2.063	2.052	2.071
7.8	2.092	1.959	1.865	1.802	1.769	1.763	1.785
7.9	1.767	1.657	1.578	1.527	1.502	1.501	1.525
8.0	1.481	1.389	1.325	1.285	1.266	1.269	1.295
8.1	1.179	1.107	1.057	1.027	1.016	1.022	1.049
8.2	0.9387	0.8828	0.8450	0.8232	0.8169	0.8263	0.8531
8.3	0.7481	0.7048	0.6762	0.6610	0.6589	0.6705	0.6976
8.4	0.5968	0.5634	0.5421	0.5321	0.5334	0.5468	0.5741
8.5	0.4766	0.4511	0.4357	0.4298	0.4337	0.4485	0.4760
8.6	0.3811	0.3619	0.3511	0.3485	0.3545	0.3704	0.3981
8.7	0.3052	0.2910	0.2839	0.2839	0.2916	0.3083	0.3362
8.8	0.2450	0.2347	0.2305	0.2326	0.2417	0.2591	0.2871
8.9	0.1971	0.1900	0.1881	0.1919	0.2020	0.2199	0.2480
9.0	0.1591	0.1545	0.1545	0.1595	0.1705	0.1889	0.2170

(d) Waters designated by the Indiana department of natural resources for put-and-take trout fishing and listed in section 5(a)(3) of this rule are designated as salmonid waters and must be protected for cold-water fish. In addition to subsections (b) and (c), the following criteria are applicable outside of a mixing zone, as determined in accordance with section 7 of this rule, in the

surface waters designated as salmonid waters to ensure conditions necessary for the maintenance of a well-balanced, cold-water fish community:

(1) Dissolved oxygen concentrations must not be less than:

(A) six (6.0) milligrams per liter at any time; and

(B) seven (7.0) milligrams per liter in areas where spawning occurs during the spawning season and in areas used for imprinting during the time salmonids are being imprinted.

Dissolved oxygen concentrations in the open waters of Lake Michigan must not be less than seven (7.0) milligrams per liter at any time.

(2) The maximum temperature rise above natural must not exceed two (2) degrees Fahrenheit (one and one-tenth (1.1) degrees Celsius) at any time or place and, unless due to natural causes, the temperature must not exceed the following:

(A) Seventy (70) degrees Fahrenheit (twenty-one and one-tenth (21.1) degrees Celsius) at any time.

(B) Sixty-five (65) degrees Fahrenheit (eighteen and three-tenths (18.3) degrees Celsius) during spawning or imprinting periods.

(e) Bacteriological quality for recreational uses during the recreational season is as follows:

(1) The recreational season is defined as the months of April through October, inclusive.

(2) In addition to subsection (b), the criteria in this subsection are to be used to do the following:

(A) Evaluate waters for full body contact recreational uses.

(B) Establish wastewater treatment requirements.

(C) Establish effluent limits during the recreational season.

(3) For full body contact recreational uses, E. coli bacteria must not exceed the following:

(A) One hundred twenty-five (125) colony forming units (cfu) or most probable number (MPN) per one hundred (100) milliliters as a geometric mean based on not less than five (5) samples equally spaced over a thirty (30) day period.

(B) Two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters in any one (1) sample in a thirty (30) day period, except that, in cases where there are at least ten (10) samples at a given site, up to ten percent (10%) of the samples may exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters where the:

(i) E. coli exceedances are incidental and attributable solely to E. coli resulting from the discharge of treated wastewater from a wastewater treatment plant as defined at IC 13-11-2-258; and

(ii) criterion in clause (A) is met.

However, a single sample is used for making beach notification and closure decisions.

If a geometric mean cannot be calculated because five (5) equally spaced samples are not available, then the criterion stated in clause (B) must be met.

(4) For demonstrating compliance with wastewater treatment requirements, sanitary wastewater dischargers shall ensure the following:

(A) The concentration of E. coli in the undiluted discharge does not exceed one hundred twenty-five (125) cfu or MPN per one hundred (100) milliliters as a geometric mean of the effluent samples taken in a calendar month.

(B) Not more than ten percent (10%) of all samples when not less than ten (10) samples are taken and analyzed for E. coli in a calendar month exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters as a daily maximum. Under this clause, the calculation of ten percent (10%) of the samples taken must be limited to the lowest whole number result.

(5) Effluent limits to implement the criteria in subdivision (3) during the recreational season must be established in NPDES permits by incorporating the following that are to be applied to the undiluted discharge:

(A) The concentration of E. coli in the undiluted discharge must not exceed one hundred twenty-five (125) cfu or MPN per one hundred (100) milliliters as a geometric mean of the effluent samples taken in a calendar month.

(B) Not more than ten percent (10%) of all samples in a calendar month exceed two hundred thirty-five (235) cfu or MPN per one hundred (100) milliliters as a daily maximum. Under this clause, the calculation of ten percent (10%) of the samples taken must be limited to the lowest whole number result.

(f) In addition to subsection (b), the criteria to protect the surface water quality at the point at which water is withdrawn for treatment for public water supply are as follows:

(1) The coliform bacteria group must not exceed the following:

(A) Five thousand (5,000) cfu or MPN per one hundred (100) milliliters as a monthly average value (either MPN or

membrane filter (MF) count).

(B) Five thousand (5,000) cfu or MPN per one hundred (100) milliliters in more than twenty percent (20%) of the samples examined during any month.

(C) Twenty thousand (20,000) cfu or MPN per one hundred (100) milliliters in more than five percent (5%) of the samples examined during any month.

(2) Taste and odor producing substances, other than those naturally occurring, must not interfere with the production of a finished water by conventional treatment consisting of the following:

(A) Coagulation.

(B) Sedimentation.

(C) Filtration.

(D) Disinfection.

(3) The concentrations of either chloride or sulfate must not exceed two hundred fifty (250) milligrams per liter unless due to naturally occurring sources.

(4) The concentration of dissolved solids must not exceed seven hundred fifty (750) milligrams per liter unless due to naturally occurring sources. A specific conductance of one thousand two hundred (1,200) micromhos per centimeter (at twenty-five (25) degrees Celsius) may be considered equivalent to a dissolved solids concentration of seven hundred fifty (750) milligrams per liter.

(5) Surface waters are acceptable for public water supply if radium-226 and strontium-90 are present in amounts not exceeding three (3) and ten (10) picocuries per liter, respectively. In the known absence of strontium-90 and alpha emitters, the water supply is acceptable when the gross beta concentrations do not exceed one thousand (1,000) picocuries per liter.

(6) The:

(A) combined concentration of nitrate-N and nitrite-N must not exceed ten (10) milligrams per liter; and

(B) concentration of nitrite-N must not exceed one (1) milligram per liter.

(7) Chemical constituents in the waters must not be present at levels that prevent, after conventional treatment, meeting the drinking water standards contained in 327 IAC 8-2, due to other than natural causes.

(g) In addition to subsection (b), dissolved solids must not exceed seven hundred fifty (750) milligrams per liter at any time, other than from naturally occurring sources, to ensure protection of water quality at the point at which surface water is withdrawn for use, either with or without treatment, for industrial cooling and processing. A specific conductance of one thousand two hundred (1,200) micromhos per centimeter (at twenty-five (25) degrees Celsius) may be considered equivalent to a dissolved solids concentration of seven hundred fifty (750) milligrams per liter.

(h) The criteria to ensure surface water quality conditions necessary for agricultural use are the same as those in subsection (b).

(i) The quality of surface waters designated for limited uses under section 19(a) of this rule must, at a minimum, meet the criteria contained in subsections (b), (e), and (g), and be aerobic at all times. However, the water must meet the criteria that are applicable to the higher use water at the point where a limited use water:

(1) becomes physically or chemically capable of supporting a higher use; or

(2) interfaces with a higher use water segment.

(j) Additional requirements for the open waters of Lake Michigan are as follows:

(1) In addition to complying with all other applicable subsections, open waters in Lake Michigan must meet the following criteria:

Table 8-9

Additional Criteria for Lake Michigan

Parameters	Criteria
Dissolved oxygen	Dissolved oxygen concentrations must not be less than seven (7.0) milligrams per liter outside the applicable mixing zone.
pH	No pH values below six (6.0) or above nine (9.0) are permitted, except daily fluctuations that exceed pH 9.0 and are correlated with photosynthetic activity.
Chloride	250 mg/l[1]

Phenols	The criteria in subsection (c)(1)
Sulfate	250 mg/l[1]
Total phosphorus	The requirements in 327 IAC 5-10-2
Total dissolved solids	750 mg/l[1]
Fluoride	1.0 mg/l[1]
Dissolved iron	300 µg/l[1]

[1] This criterion minimizes or prevents increased levels of this substance in Lake Michigan. For the purposes of establishing water quality-based effluent limitations (WQBEL) based on this criterion, it must be treated as a four (4) day average criterion.

(2) During each triennial review of the water quality standards, prior to preliminary adoption of revised rules, the following must occur:

(A) The department shall prepare a report for the board on the monitoring data for the parameters in Table 8-10, as measured at the drinking water intakes in Lake Michigan.

(B) If the monitoring data in clause (A) indicate that the levels of the parameters are either increasing or exceed the levels in Table 8-10, the report for the board must provide available information on the known and potential causes of the increased levels of these parameters, the known and potential impacts on aquatic life, wildlife, and human health, and any recommended revisions of the criteria.

Table 8-10

Parameters	Levels
pH	7.5-8.5 s.u.
Chloride	
Monthly average	15 mg/l
Daily maximum	20 mg/l
Sulfate	
Monthly average	26 mg/l
Daily maximum	50 mg/l
Total phosphorus	
Monthly average	0.03 mg/l
Daily maximum	0.04 mg/l
Total dissolved solids	
Monthly average	172 mg/l
Daily maximum	200 mg/l

*This document is incorporated by reference. Copies may be obtained from the U.S. EPA National Service Center for Environmental Publications (www.epa.gov/nscep), or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1.5-8; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1370; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3376; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2074; errata filed Apr 6, 2006, 2:48 p.m.: 29 IR 2546; filed Mar 18, 2008, 2:26 p.m.: 20080416-IR-327060573FRA; filed Jul 9, 2012, 2:54 p.m.: 20120808-IR-327110320FRA; filed Nov 5, 2021, 12:56 p.m.: 20211201-IR-327140058FRA)*

327 IAC 2-1.5-9 Interim ground water quality standards *(Repealed)*

Sec. 9. *(Repealed by Water Pollution Control Division; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1882)*

327 IAC 2-1.5-10 Methods of analysis

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 10. The analytical procedures used as methods of analysis to determine the chemical, bacteriological, biological, and radiological quality of waters sampled must be completed in accordance with 40 CFR 136* or methods approved by the commissioner.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1.5-10; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1381; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2084; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1.5-11 Determination of Tier I aquatic life criteria

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18

Sec. 11. (a) The procedures in this section shall be used to determine acute and chronic Tier I aquatic life criteria.

(b) The following considerations regarding the toxic substance shall be considered during the development of Tier I criteria or Tier II values:

(1) Each separate chemical that does not ionize substantially in most natural bodies of water should usually be considered a separate substance, except possibly for structurally similar organic compounds that only exist in large quantities as commercial mixtures of the various compounds and apparently have similar biological, chemical, physical, and toxicological properties.

(2) For chemicals that ionize substantially in most natural bodies of water, for example:

(A) some phenols and organic acids;

(B) some salts of phenols and organic acids; and

(C) most inorganic salts and coordination complexes of metals and metalloid;

all forms that would be in chemical equilibrium should usually be considered one (1) substance. Each different oxidation state of a metal and each different nonionizable covalently bonded organometallic compound should usually be considered a separate substance.

(3) The definition of the toxic substance should include an operational analytical component. Identification of a substance simply as sodium, for example, implies total sodium, but leaves room for doubt. If total is meant, it must be explicitly stated. Even total has different operational definitions, some of which do not necessarily measure all that is there in all samples. Thus, it is also necessary to reference or describe the analytical method that is intended. The selection of the operational analytical component should take into account the analytical and environmental chemistry of the material and various practical considerations, such as labor and equipment requirements, and whether the method would require measurement in the field or would allow measurement after samples are transported to a laboratory. The operational analytical considerations shall be as follows:

(A) The primary requirements of the operational analytical component shall be as follows:

(i) Appropriate for use on samples of receiving water.

(ii) Rarely result in underprotection or overprotection of aquatic organisms and their uses.

(iii) Compatible with the available toxicity and bioaccumulation data without making extrapolations that are too hypothetical. Toxicity is the property of a substance, or combination of substances, to adversely affect organisms.

(B) Because an ideal analytical measurement will rarely be available, an appropriate compromise measurement will usually have to be used. This compromise measurement must fit with the general approach that if an ambient concentration is lower than the criterion or value, unacceptable effects will probably not occur, that is, the compromise measure must not err on the side of underprotection when measurements are made on a surface water. What is an appropriate measurement in one (1) situation might not be appropriate for another. For example, because the chemical and physical properties of an effluent are usually quite different from those of the receiving water, an analytical method that is appropriate for analyzing an effluent might not be appropriate for expressing a criterion or value, and vice versa. A criterion or value should be based on an appropriate analytical measurement, but the criterion or value is not rendered useless if an ideal measurement either is not available or is not feasible. The analytical chemistry of

the substance might have to be taken into account when defining the substance or when judging the acceptability of some toxicity tests, but a criterion or value must not be based on the sensitivity of an analytical method. When aquatic organisms are more sensitive than routine analytical methods, the proper solution is to develop better analytical methods.

(4) The use of dissolved metal to set and measure compliance with water quality standards for aquatic life is the recommended approach, because dissolved metal more closely approximates the bioavailable fraction of metal in the water column than does total recoverable metal. Reasons for the consideration of total recoverable metals criteria or values include risk management considerations not covered by evaluation of water column toxicity. The commissioner may, after considering sediment and food chain effects for a particular metal, decide to take a more conservative approach for the metal. This approach could include the expression of aquatic life criteria or values for the metal in the form of total recoverable metal. If the commissioner determines that it is appropriate to express aquatic life criteria or values for a particular metal in the form of dissolved metal, the criteria or values shall be determined as follows:

(A) If sufficient toxicological data in the form of dissolved metal are available, these data shall be used in this section and sections 12 and 16 of this rule to derive aquatic life criteria or values directly in the form of dissolved metal.

(B) If sufficient toxicological data in the form of dissolved metal are not available, aquatic life criteria or values shall be derived in the form of total recoverable metal using the procedures in this section and sections 12 and 16 of this rule and then multiplied by criteria conversion factors approved by the commissioner to express the criteria or values in the form of dissolved metal.

(C) If sufficient toxicological data in the form of dissolved metal are not available and criteria conversion factors for the particular metal have not been approved by the commissioner, aquatic life criteria or values shall be derived in the form of total recoverable metal using the procedures in this section and sections 12 and 16 of this rule and expressed in the form of total recoverable metal.

(c) The following data collection procedures shall be followed when developing Tier I aquatic life criteria:

(1) Collect all data available on the substance concerning toxicity to aquatic animals and plants.

(2) All data that are used should be available in typed, dated, and signed hard copy, for example:

(A) publication;

(B) manuscript;

(C) letter; or

(D) memorandum;

with enough supporting information to indicate that acceptable test procedures were used and that the results are reliable. In some cases, it may be appropriate to obtain written information from the investigator, if possible. Information that is not available for distribution shall not be used.

(3) Questionable data, whether published or unpublished, shall not be used. For example, data shall be rejected if they are from tests:

(A) that did not contain a control treatment;

(B) in which too many organisms in the control treatment died or showed signs of stress or disease; and

(C) in which distilled or deionized water was used as the dilution water without the addition of appropriate salts.

(4) Data on technical grade materials may be used if appropriate, but data on formulated mixtures and emulsifiable concentrates of the material shall not be used.

(5) For some highly volatile, hydrolyzable, or degradable materials, it may be appropriate to use only results of flow-through tests in which the concentrations of test material in test solutions were measured using acceptable analytical methods. A flow-through test is a test with aquatic organisms in which test solutions flow into constant-volume test chambers either intermittently, for example, every few minutes, or continuously, with the excess flowing out.

(6) Data shall be rejected if obtained using the following:

(A) Brine shrimp, because they usually only occur naturally in water with salinity greater than thirty-five (35) grams per kilogram.

(B) Species that do not have reproducing wild populations in North America.

(C) Organisms that were previously exposed to substantial concentrations of the test material or other contaminants.

(D) Saltwater species except for use in deriving ACR.

(7) Questionable data, data on formulated mixtures and emulsifiable concentrates, and data obtained with species

nonresident to North America or previously exposed organisms may be used to provide auxiliary information but shall not be used in the derivation of criteria.

(d) This subsection establishes the data requirements for the development of Tier I aquatic life criteria as follows:

(1) Certain data should be available to help ensure that each of the major kinds of possible adverse effects receives adequate consideration. An adverse effect is a change in an organism that is harmful to the organism. Exposure means contact with a chemical or physical agent. Results of acute and chronic toxicity tests with representative species of aquatic animals are necessary so that data available for tested species can be considered a useful indication of the sensitivities of appropriate untested species. Fewer data concerning toxicity to aquatic plants are usually available because procedures for conducting tests with plants and interpreting the results of such tests are not as well developed.

(2) To derive a Tier I criterion for aquatic organisms and their uses, the following must be available:

(A) Results of acceptable acute (or chronic) tests (see subsections (e) and (g)) with at least one (1) species of freshwater animal in at least eight (8) different families such that all of the following are included:

(i) The family Salmonidae in the class Osteichthyes.

(ii) One (1) other family (preferably a commercially or recreationally important, warmwater species) in the class Osteichthyes, for example:

(AA) bluegill; or

(BB) channel catfish.

(iii) A third family in the phylum Chordata, for example:

(AA) fish; or

(BB) amphibian.

(iv) A planktonic crustacean, for example:

(AA) a cladoceran; or

(BB) copepod.

(v) A benthic crustacean, for example:

(AA) ostracod;

(BB) isopod;

(CC) amphipod; or

(DD) crayfish.

(vi) An insect, for example:

(AA) mayfly;

(BB) dragonfly;

(CC) damselfly;

(DD) stonefly;

(EE) caddisfly;

(FF) mosquito; or

(GG) midge.

(vii) A family in a phylum other than Arthropoda or Chordata, for example:

(AA) Rotifera;

(BB) Annelida; or

(CC) Mollusca.

(viii) A family in any order of insect or any phylum not already represented.

(B) Acute-chronic ratios (see subsection (g)) with at least one (1) species of aquatic animal in at least three (3) different families provided that of the three (3) species at least one (1) is:

(i) a fish;

(ii) an invertebrate; and

(iii) an acutely sensitive freshwater species (the other two (2) may be saltwater species).

(C) Results of at least one (1) acceptable test with a freshwater algae or vascular plant is desirable but not required for criterion derivation (see subsection (i)). If plants are among the aquatic organisms most sensitive to the material, results of a test with a plant in another phylum (division) should also be available.

(3) If all required data are available, a numerical criterion can usually be derived except in special cases. For example,

derivation of a chronic criterion might not be possible if the available ACRs vary by more than a factor of ten (10) with no apparent pattern. Also, if a criterion is to be related to a water quality characteristic (see subsections (f) and (h)), more data will be required.

(4) Confidence in a criterion usually increases as the amount of available pertinent information increases. Thus, additional data are usually desirable.

(e) The following procedures shall be used to calculate an FAV:

(1) Appropriate measures of the acute (short term) toxicity of the material to a variety of species of aquatic animals are used to calculate the FAV. The calculated FAV is a calculated estimate of the concentration of a test material such that ninety-five percent (95%) of the genera (with which acceptable acute toxicity tests have been conducted on the material) have higher GMAVs. An acute test is a comparative study in which organisms that are subjected to different treatments are observed for a short period usually not constituting a substantial portion of their life span. However, in some cases, the SMAV of a commercially or recreationally important species of the Great Lakes system is lower than the calculated FAV, then the SMAV replaces the calculated FAV in order to provide protection for that important species.

(2) Acute toxicity tests shall be conducted in accordance with this subsection.

(3) Except for results with saltwater annelids and mysids, results of acute tests during which the test organisms were fed should not be used, unless data indicate that the food did not affect the toxicity of the test material. (If the minimum acute-chronic ratio data requirements (as described in subsection (d)(2)(B)) are not met with freshwater data alone, saltwater data may be used.)

(4) Results of acute tests conducted in unusual dilution water, for example, dilution water in which total organic carbon or particulate matter exceeded five (5) milligrams per liter, shall not be used, unless a relationship is developed between acute toxicity and organic carbon or particulate matter or unless data show that the organic carbon or particulate matter do not affect toxicity.

(5) Acute values must be based upon endpoints that reflect the total severe adverse impact of the test material on the organisms used in the test. Therefore, only the following kinds of data on acute toxicity to aquatic animals shall be used:

(A) Tests with daphnids and other cladocerans must be started with organisms less than twenty-four (24) hours old, and tests with midges must be started with second or third instar larvae. It is preferred that the results should be the forty-eight (48) hour EC_{50} based on the total percentage of organisms killed and immobilized. If such an EC_{50} is not available for a test, the forty-eight (48) hour LC_{50} should be used in place of the desired forty-eight (48) hour EC_{50}. An EC_{50} or LC_{50} of longer than forty-eight (48) hours can be used as long as the animals were not fed and the control animals were acceptable at the end of the test.

(B) It is preferred that the results of a test with embryos and larvae of barnacles, bivalve molluscs (clams, mussels, oysters, and scallops), sea urchins, lobsters, crabs, shrimp, and abalones be the ninety-six (96) hour EC_{50} based on the percentage of organisms with incompletely developed shells plus the percentage of organisms killed. If such an EC_{50} is not available from a test, of the values that are available from the test, the lowest of the following should be used in place of the desired ninety-six (96) hour EC_{50}:

(i) Forty-eight (48) hour to ninety-six (96) hour EC_{50}s based on percentage of organisms with incompletely developed shells plus percentage of organisms killed.

(ii) Forty-eight (48) hour to ninety-six (96) hour EC_{50}s based upon percentage of organisms with incompletely developed shells.

(iii) Forty-eight (48) hour to ninety-six (96) hour LC_{50}s.

If the minimum acute-chronic ratio data requirements (as described in subsection (d)(2)(B)) are not met with freshwater data alone, saltwater data may be used.

(C) It is preferred that the result of tests with all other aquatic animal species and older life stages of barnacles, bivalve molluscs (clams, mussels, oysters, and scallops), sea urchins, lobsters, crabs, shrimp, and abalones be the ninety-six (96) hour EC_{50} based on percentage of organisms exhibiting loss of equilibrium plus percentage of organisms immobilized plus percentage of organisms killed. If such an EC_{50} is not available from a test, of the values that are available from a test, the lower of the following should be used in place of the desired ninety-six (96) hour EC_{50}:

(i) The ninety-six (96) hour EC_{50} based on percentage of organisms exhibiting loss of equilibrium plus percentage of organisms immobilized.

(ii) The ninety-six (96) hour LC_{50}.

(D) Tests results that take into account the number of young produced, such as most tests with protozoans, are not considered acute tests, even if the duration was ninety-six (96) hours or less.

(E) If the tests were conducted properly, acute values reported as greater than values and those that are above the solubility of the test material should be used, because rejection of such acute values would bias the final acute value by eliminating acute values for resistant species.

(6) If the acute toxicity of the material to aquatic animals has been shown to be related to a water quality characteristic, such as hardness or particulate matter for freshwater animals, refer to subsection (f).

(7) The agreement of the data within and between species must be considered. Acute values that appear to be questionable in comparison with other acute and chronic data for the same species and for other species in the same genus must not be used. For example, if the acute values available for a species or genus differ by more than a factor of ten (10), rejection of some or all of the values would be appropriate, absent countervailing circumstances.

(8) If the available data indicate that one (1) or more life stages are at least a factor of two (2) more resistant than one (1) or more other life stages of the same species, the data for the more resistant life stages shall not be used in the calculation of the SMAV because a species cannot be considered protected from acute toxicity if all of the life stages are not protected.

(9) For each species for which at least one (1) acute value is available, the SMAV shall be calculated as the geometric mean of the results of all acceptable flow-through acute toxicity tests in which the concentrations of test material were measured with the most sensitive tested life stage of the species. For a species for which no such result is available, the SMAV shall be calculated as the geometric mean of all acceptable acute toxicity tests with the most sensitive tested life stage, for example, results of flow-through tests in which the concentrations were not measured and results of static and renewal tests based on initial concentrations (nominal concentrations are acceptable for most test materials if measured concentrations are not available) of test material. A renewal test is a test with aquatic organisms in which either the test solution in a test chamber is removed and replaced at least once during the test or the test organisms are transferred into a new test solution of the same composition at least once during the test. A static test is a test with aquatic organisms in which the solution and organisms that are in a test chamber at the beginning of the test remain in the chamber until the end of the test, except for removal of dead test organisms. The following conditions are applicable to this calculation:

(A) Data reported by original investigators must not be rounded off. Results of all intermediate calculations must not be rounded off to fewer than four (4) significant digits.

(B) The geometric mean of N numbers is the Nth root of the product of the N numbers. Alternatively, the geometric mean can be calculated by adding the logarithms of the N numbers, dividing the sum by N, and taking the antilog of the quotient. The geometric mean of two (2) numbers is the square root of the product of the two (2) numbers, and the geometric mean of one (1) number is that number. Either natural (base e) or common (base 10) logarithms can be used to calculate geometric means as long as they are used consistently within each set of data, for example, the antilog used must match the logarithms used.

(C) Geometric means, rather than arithmetic means, are used here because the distributions of sensitivities of individual organisms in toxicity tests on most materials and the distributions of sensitivities of species within a genus are more likely to be lognormal than normal. Similarly, geometric means are used for ACRs because quotients are likely to be closer to lognormal than normal distributions. In addition, division of the geometric mean of a set of numerators by the geometric mean of the set of denominators will result in the geometric mean of the set of corresponding quotients.

(10) For each genus for which one (1) or more SMAVs are available, the GMAV shall be calculated as the geometric mean of the SMAVs available for the genus.

(11) Order the GMAVs from high to low.

(12) Assign ranks, R, to the GMAVs from "1" for the lowest to "N" for the highest. If two (2) or more GMAVs are identical, assign them successive ranks.

(13) Calculate the cumulative probability, P, for each GMAV as R/(N + 1).

(14) Select the four (4) GMAVs that have cumulative probabilities closest to five-hundredths (0.05) (if there are fewer than fifty-nine (59) GMAVs, these will always be the four (4) lowest GMAVs).

(15) Using the four (4) selected GMAVs and Ps, calculate:

(A) $FAV = e^{A}$

$$(B)\ A = S(\sqrt{0.05}) + L$$

$$(C)\ L = \frac{\sum(\ln GMAV) - S(\sum(\sqrt{P}))}{4}$$

$$(D)\ S^2 = \frac{\sum((\ln GMAV)^2) - \frac{(\sum(\ln GMAV))^2}{4}}{\sum(P) - \frac{(\sum(\sqrt{P}))^2}{4}}$$

(16) If, for a commercially or recreationally important species of the Great Lakes system, the geometric mean of the acute values from flow-through tests in which the concentrations of test material were measured is lower than the calculated FAV, then that geometric mean must be used as the FAV instead of the calculated FAV.

(f) When enough data are available to show that acute toxicity to two (2) or more species is similarly related to a water quality characteristic, the relationship shall be taken into account as described in subdivisions (1) through (6) or using analysis of covariance. The two (2) methods are equivalent and produce identical results. The manual method described in this subsection provides an understanding of this application of covariance analysis, but computerized versions of covariance analysis are much more convenient for analyzing large data sets. If two (2) or more factors affect toxicity, multiple regression analysis shall be used. An acute criterion based on a water quality characteristic shall be determined as follows:

(1) For each species for which comparable acute toxicity values are available at two (2) or more different values of the water quality characteristic, perform a least squares regression of the acute toxicity values on the corresponding values of the water quality characteristic to obtain the slope and its ninety-five percent (95%) confidence limits for each species. (Because the best documented relationship is that between hardness and acute toxicity of metals in fresh water and a log-log relationship fits these data, geometric means and natural logarithms of both toxicity and water quality are used in the rest of this section. For relationships based on other water quality characteristics, such as pH or temperature, no transformation or a different transformation might fit the data better, and appropriate changes will be necessary throughout this section.)

(2) Decide whether the data for each species are relevant, taking into account the range and number of the tested values of the water quality characteristic and the degree of agreement within and between species. For example, a slope based on six (6) data points might be of limited value if it is based only on data for a very narrow range of values of the water quality characteristic. A slope based on only two (2) data points, however, might be useful if it is consistent with other information and if the two (2) points cover a broad enough range of the water quality characteristic. In addition, acute values that appear to be questionable in comparison with other acute and chronic data available for the same species and for other species in the same genus should not be used. For example, if after adjustment for the water quality characteristic, the acute values available for a species or genus differ by more than a factor of ten (10), rejection of some or all of the values would be appropriate, absent countervailing justification. Return to subsection (e)(7), using the results of tests conducted under conditions and in waters similar to those commonly used for toxicity tests with the species if any of the following occur:

(A) Useful slopes are not available for at least one (1) fish and one (1) invertebrate.

(B) The available slopes are too dissimilar.

(C) Too few data are available to adequately define the relationship between acute toxicity and the water quality characteristic.

(3) For each species, calculate the geometric mean of the available acute values and then divide each of the acute values for the species by the geometric mean for the species. This normalizes the acute values so that the geometric mean of the normalized values for each species individually and for any combination of species is one (1.0).

(4) Similarly normalize the values of the water quality characteristic for each species individually using the procedure in subdivisions (1) through (3).

(5) Individually for each species perform a least squares regression of the normalized acute values of the water quality characteristic. The resulting slopes and ninety-five percent (95%) confidence limits will be identical to those obtained in subdivision (1). If, however, the data are actually plotted, the line of best fit for each individual species will go through the point 1,1 in the center of the graph.

(6) Treat all of the normalized data as if they were all for the same species and perform a least squares regression of all of

the normalized acute values on the corresponding normalized values of the water quality characteristic to obtain the pooled acute slope, V, and its ninety-five percent (95%) confidence limits. If all of the normalized data are actually plotted, the line of best fit will go through the point 1,1 in the center of the graph.

(7) For each species calculate the geometric mean, W, of the acute toxicity values and the geometric mean, X, of the values of the water quality characteristic. (These were calculated in subdivisions (3) and (4)).

(8) For each species, calculate the logarithm, Y, of the SMAV at a selected value, Z, of the water quality characteristic using the equation:

$$Y = \ln W - V(\ln X - \ln Z)$$

(9) For each species calculate the SMAV at Z using the equation:

$$SMAV = e^{Y}$$

(10) Alternatively, the SMAVs at Z can be obtained by skipping the step in subdivision (7), using the equations in subdivisions (8) and (9) to adjust each acute value individually to Z, and then calculating the geometric mean of the adjusted values for each species individually. This alternative procedure allows an examination of the range of the adjusted acute values for each species.

(11) Obtain the FAV at Z by using the procedure described in subsection (e)(10) through (e)(15).

(12) If, for a commercially or recreationally important species of the Great Lakes system, the geometric mean of the acute values at Z from flow-through tests in which the concentrations of the test material were measured is lower than the FAV at Z, then the geometric mean must be used as the FAV instead of the FAV calculated in subdivision (11).

(13) The final acute equation is written as:

$$(FAV) = e^{(V[\ln(\text{water quality characteristic})] + A - V[\ln Z])}$$

Where:

V = pooled acute slope.

A = ln(FAV at Z).

Because V, A, and Z are known, the FAV can be calculated for any selected value of the water quality characteristic.

(g) The following procedures shall be used to calculate an FCV:

(1) Depending on the data that are available concerning chronic toxicity to aquatic animals, the FCV can be calculated in the same manner as the FAV or by dividing the FAV by the final acute-chronic ratio (FACR). In some cases, it might not be possible to calculate an FCV. The FCV is one (1) of the following as applicable:

(A) A calculated estimate of the concentration of a test material such that ninety-five percent (95%) of the genera (with which acceptable chronic toxicity tests have been conducted on the material) have higher GMCVs.

(B) The quotient of an FAV divided by an appropriate ACR (ACR is a way of relating acute and chronic toxicities).

(C) The SMCV of an important or critical species, if the SMCV is lower than the calculated estimate or the quotient.

(2) Chronic values shall be based on results of flow-through (except renewal is acceptable for daphnids) chronic tests in which the concentrations of test material in the test solutions were properly measured at appropriate times during the test. A chronic test is a comparative study in which organisms that are subjected to different treatments are observed for a long period or a substantial portion of their life span.

(3) Results of chronic tests in which survival, growth, or reproduction in the control treatment was unacceptably low shall not be used. The limits of acceptability will depend on the species.

(4) Results of chronic tests conducted in unusual dilution water, for example, dilution water in which total organic carbon or particulate matter exceeded five (5) milligrams per liter, should not be used unless:

(A) a relationship is developed between chronic toxicity and organic carbon or particulate matter; or

(B) data show that the organic carbon or particulate matter do not affect toxicity.

(5) Chronic values must be based on endpoints and lengths of exposure appropriate to the species. Therefore, only results of the following kinds of chronic toxicity tests shall be used:

(A) Life-cycle toxicity tests consisting of exposures of each of two (2) or more groups of individuals of a species to a different concentration of the test material throughout a life cycle. To ensure that all life stages and life processes are exposed, the following procedures shall be followed:

(i) Tests with fish should:

(AA) begin with embryos or newly hatched young less than forty-eight (48) hours old;

(BB) continue through maturation and reproduction; and

(CC) end not less than twenty-four (24) days (ninety (90) days for salmonids) after the hatching of

the next generation.

For fish, data should be obtained and analyzed on survival and growth of adults and young, maturation of males and females, eggs spawned per female, embryo viability (salmonids only), and hatchability.

(ii) Tests with daphnids should begin with young less than twenty-four (24) hours old and last for not less than twenty-one (21) days, and for ceriodaphnids not less than seven (7) days. For daphnids, data should be obtained and analyzed on survival and young per female.

(iii) Tests with mysids should begin with young less than twenty-four (24) hours old and continue until seven (7) days past the median time of first brood release in the controls. For mysids, data should be obtained and analyzed on survival, growth, and young per female.

(B) Partial life-cycle toxicity tests consist of exposures of each of two (2) or more groups of individuals of a species of fish to a different concentration of the test material through most portions of a life cycle. Partial life-cycle tests are allowed with fish species that require more than a year to reach sexual maturity, so that all major life stages can be exposed to the test material in less than fifteen (15) months. A life-cycle test is a comparative study in which organisms that are subjected to different treatments are observed at least from a life stage in one (1) generation to the same life stage in the next generation. Exposure to the test material should:

(i) begin with immature juveniles at least two (2) months prior to active gonad development;

(ii) continue through maturation and reproduction; and

(iii) end not less than twenty-four (24) days (ninety (90) days for salmonids) after the hatching of the next generation.

Data should be obtained and analyzed on survival and growth of adults and young, maturation of males and females, eggs spawned per female, embryo viability (salmonids only), and hatchability.

(C) Early life-stage toxicity tests consisting of twenty-eight (28) to thirty-two (32) day (sixty (60) days post hatch for salmonids) exposures of the early life stages of a species of fish from shortly after fertilization through embryonic, larval, and early juvenile development. Data should be obtained and analyzed on survival and growth. (Note: Results of an early life-stage test are used as predictions of results of life-cycle and partial life-cycle tests with the same species. Therefore, when results of a life-cycle or partial life-cycle test are available, results of an early life-stage test with the same species should not be used. Also, results of early life-stage tests in which the incidence of mortalities or abnormalities increased substantially near the end of the test shall not be used because the results of such tests are possibly not good predictions of comparable life-cycle or partial life-cycle tests.)

(6) A chronic value may be obtained by analyzing chronic data using regression analysis or by calculating the geometric mean of the lower and upper chronic limits from a chronic test as follows:

(A) A lower chronic limit is the highest tested concentration:

(i) in an acceptable chronic test;

(ii) that did not cause an unacceptable amount of adverse effect on any of the specified biological measurements; and

(iii) below which no tested concentration caused an unacceptable effect.

(B) An upper chronic limit is the lowest tested concentration:

(i) in an acceptable chronic test;

(ii) that did cause an unacceptable amount of adverse effect on one (1) or more of the specified biological measurements; and

(iii) above which all tested concentrations also caused such an effect.

(C) Because various authors have used a variety of terms and definitions to interpret and report results of chronic tests, reported results should be reviewed carefully. The amount of effect that is considered unacceptable is often based on a statistical hypothesis test, but might also be defined in terms of a specified percent reduction from the controls. A small percent reduction (for example, three percent (3%)) might be considered acceptable even if it is statistically significantly different from the control, whereas a large percent reduction (for example, thirty percent (30%)) might be considered unacceptable even if it is not statistically significant.

(7) If the chronic toxicity of the material to aquatic animals has been shown to be related to a water quality characteristic, such as hardness or particulate matter for freshwater animals, refer to subsection (h).

(8) If chronic values are available for species in eight (8) families as described in subsection (d)(2)(A), an SMCV shall be

calculated for each species for which at least one (1) chronic value is available by calculating the geometric mean of the results of all acceptable life-cycle and partial life-cycle toxicity tests with the species; for a species of fish for which no such result is available, the SMCV is the geometric mean of all acceptable early life-stage tests. Appropriate GMCVs shall also be calculated. A GMCV is the geometric mean of the SMCVs for the genus. The FCV shall be obtained using the procedure described in subsection (e)(10) through (e)(15), substituting SMCV and GMCV for SMAV and GMAV, respectively. See subdivision (10).

(9) The following procedures are for use when chronic values are not available for species in eight (8) taxonomic families as described in subsection (d)(2)(A):

(A) For each chronic value for which at least one (1) corresponding appropriate acute value is available, calculate an ACR, using for the numerator the geometric mean of the results of all acceptable flow-through (except static is acceptable for daphnids and midges) acute tests in the same dilution water in which the concentrations are measured. For fish, the acute tests should be conducted with juveniles. The acute tests should be part of the same study as the chronic test. If acute tests were not conducted as part of the same study, but were conducted as part of a different study in the same laboratory and dilution water, then they may be used. If no such acute tests are available, results of acute tests conducted in the same dilution water in a different laboratory may be used. If no such acute tests are available, an ACR shall not be calculated.

(B) For each species, calculate the SMACR as the geometric mean of all ACRs available for that species. If the minimum ACR data requirements (as described in subsection (d)(2)(B)) are not met with freshwater data alone, saltwater data may be used along with the freshwater data.

(C) For some materials, the ACR seems to be the same for all species, but for other materials the ratio seems to increase or decrease as the SMAV increases. Thus the FACR can be obtained in the following three (3) ways, depending on the data available (If the available SMACRs do not fit one (1) of these cases, a FACR may not be obtained and a Tier I FCV probably cannot be calculated.):

(i) If the species mean ACR seems to increase or decrease as the SMAVs increase, the FACR shall be calculated as the geometric mean of the ACRs for species whose SMAVs are close to the FAV.

(ii) If no major trend is apparent and the ACRs for all species are within a factor of ten (10), the FACR shall be calculated as the geometric mean of all of the SMACRs.

(iii) If the most appropriate SMACRs are less than two (2.0), and especially if they are less than one (1.0), acclimation has probably occurred during the chronic test. In this situation, because continuous exposure and acclimation cannot be assured to provide adequate protection in field situations, the FACR should be assumed to be two (2), so that the FCV is equal to the CMC. (See subsection (k)(1).)

(D) Calculate the FCV by dividing the FAV by the FACR. FCV = FAV ÷ FACR. If there is a final acute equation rather than an FAV, see also subsection (f).

(10) If the SMCV of a commercially or recreationally important species of the Great Lakes system is lower than the calculated FCV, then that SMCV must be used as the FCV instead of the calculated FCV.

(h) When enough data are available to show that toxicity to two (2) or more species is similarly related to a water quality characteristic, the relationship shall be taken into account as described in this subsection. A final chronic equation can be derived in two (2) ways. The procedure described in subdivision (1) will result in the chronic slope being the same as the acute slope. The procedure described in subdivision (2) will usually result in the chronic slope being different from the acute slope. A chronic criterion based on a water quality characteristic shall be determined as follows:

(1) If ACRs are available for enough species at enough values of the water quality characteristic to indicate that the ACR appears to be the same for all species and appears to be independent of the water quality characteristic, then:

(A) calculate the FACR as the geometric mean of the available SMACRs;

(B) calculate the FCV at the selected value Z of the water quality characteristic by dividing the FAV at Z (see subsection (f)(11)) by the FACR; and

(C) use V = pooled acute slope (see subsection (f)(6)), and L = pooled chronic slope (see subdivision (2)(F)).

(2) When enough data are available to show that chronic toxicity to at least one (1) species is related to a water quality characteristic, the relationship should be taken into account as described in clauses (A) through (E) or using analysis of covariance. The two (2) methods are equivalent and produce identical results. The manual method described in this subdivision provides an understanding of this application of covariance analysis, but computerized versions of covariance

analysis are much more convenient for analyzing large data sets. If two (2) or more factors affect toxicity, multiple regression analysis shall be used. The manual method for taking into account the relationship of chronic toxicity to a water quality characteristic is the following:

(A) For each species for which comparable chronic toxicity values are available at two (2) or more different values of the water quality characteristic, perform a least squares regression of the chronic toxicity values on the corresponding values of the water quality characteristic to obtain the slope and its ninety-five percent (95%) confidence limits for each species. (Because the best documented relationship is that between hardness and acute toxicity of metals in fresh water and a log-log relationship fits these data, geometric means and natural logarithms of both toxicity and water quality are used in the rest of this section. For relationships based on other water quality characteristics, such as pH or temperature, no transformation, or a different transformation might fit the data better, and appropriate changes will be necessary throughout this section. It is probably preferable, but not necessary, to use the same transformation that was used with the acute values in subsection (f).)

(B) Decide whether the data for each species are relevant, taking into account the range and number of the tested values of the water quality characteristic and the degree of agreement within and between species. For example, a slope based on six (6) data points might be of limited value if it is based only on data for a very narrow range of values of the water quality characteristic. A slope based on only two (2) data points, however, might be more useful if it is consistent with other information and if the two (2) points cover a broad range of the water quality characteristic. In addition, chronic values that appear to be questionable in comparison with other acute and chronic data available for the same species and for other species in the same genus in most cases should not be used. For example, if after adjustment for the water quality characteristic, the chronic values available for a species or genus differ by more than a factor of ten (10), rejection of some or all of the values is, in most cases, absent countervailing circumstances, appropriate. If a useful chronic slope is not available for at least one (1) species or if the available slopes are too dissimilar or if too few data are available to adequately define the relationship between chronic toxicity and the water quality characteristic, it might be appropriate to assume that the chronic slope is the same as the acute slope, which is equivalent to assuming that the ACR is independent of the water quality characteristic. Alternatively, return to subsection (g)(8), using the results of tests conducted under conditions and in waters similar to those commonly used for toxicity tests with the species.

(C) Individually for each species, calculate the geometric mean of the available chronic values and then divide each chronic value for a species by the mean for the species. This normalizes the chronic values so that the geometric mean of the normalized values for each species individually, and for any combination of species, is one (1.0).

(D) Similarly, normalize the values of the water quality characteristic for each species individually.

(E) Individually for each species, perform a least squares regression of the normalized chronic toxicity values on the corresponding normalized values of the water quality characteristic. The resulting slopes and the ninety-five percent (95%) confidence limits will be identical to those obtained in this subdivision. Now, however, if the data are actually plotted, the line of best fit for each individual species will go through the point 1,1 in the center of the graph.

(F) Treat all of the normalized data as if they were all the same species and perform a least squares regression of all of the normalized chronic values on the corresponding normalized values of the water quality characteristic to obtain the pooled chronic slope, L, and its ninety-five percent (95%) confidence limits. If all normalized data are actually plotted, the line of best fit will go through the point 1,1 in the center of the graph.

(G) For each species, calculate the geometric mean, M, of the toxicity values and the geometric mean, P, of the values of the water quality characteristic. (These are calculated in clauses (C) and (D).)

(H) For each species, calculate the logarithm, Q, of the SMCV at a selected value, Z, of the water quality characteristic using the equation:

$$Q = \ln M - L(\ln P - \ln Z)$$

(Although it is not necessary, it is recommended that the same value of the water quality characteristic be used here as was used in subsection (f).)

(I) For each species, calculate an SMCV at Z using the equation:

$$SMCV = e^{Q}$$

(Alternatively, the SMCV at Z can be obtained by skipping clause (G), using the equations in clause (H) and this clause to adjust each chronic value individually to Z, and then calculating the geometric means of the adjusted values

for each species individually. This alternative procedure allows an examination of the range of the adjusted chronic values for each species.)

(J) Obtain the FCV at Z by using the procedure described in subsection (e)(10) through (e)(15).

(3) If the SMCV at Z of a commercially or recreationally important species of the Great Lakes system is lower than the calculated FCV at Z, then that SMCV shall be used as the FCV at Z instead of the calculated FCV.

(4) The final chronic equation is written as:

$$FCV = e^{(L[\ln(\text{water quality characteristic})] + \ln S - L[\ln Z])}$$

Where: L = pooled chronic slope.

S = FCV at Z.

Because L, S, and Z are known, the FCV can be calculated for any selected value of the water quality characteristic.

(i) An FPV is the lowest plant value that was obtained with an important aquatic plant species in an acceptable toxicity test for which the concentrations of the test material were measured and the adverse effect was biologically important. Appropriate measures of the toxicity of the material to aquatic plants are used to compare the relative sensitivities of aquatic plants and animals. Although procedures for conducting and interpreting the results of toxicity tests with plants are not well developed, results of tests with plants usually indicate that criteria that adequately protect aquatic animals and their uses will, in most cases, also protect aquatic plants and their uses. When developing an FPV, the following apply:

(1) A plant value is the result of a ninety-six (96) hour test conducted with an alga or a chronic test conducted with an aquatic vascular plant. (A test of the toxicity of a metal to a plant shall not be used if the medium contained an excessive amount of a complexing agent, such as EDTA, that might affect the toxicity of the metal. Concentrations of EDTA above two hundred (200) µg/L should be considered excessive.)

(2) The FPV shall be obtained by selecting the lowest result from a test with an important aquatic plant species in which the concentrations of test material are measured and the endpoint is biologically important.

(j) Pertinent information that could not be used in earlier subsections may be available concerning adverse effects on aquatic organisms. The following are data that may affect a criterion if the data were obtained with an important species, the test concentrations were measured, and the endpoint was biologically important:

(1) Cumulative and delayed toxicity, reduction in survival, growth, or reproduction, or any other adverse effect that has been shown to be biologically important. Delayed toxicity is an adverse effect to an organism that results from, and occurs after the end of, its exposure to one (1) or more test materials.

(2) Species for which no other data are available.

(3) Behavioral, biochemical, physiological, microcosm, and field studies.

(4) Tests conducted in unusual dilution water (see subsections (e)(4) and (g)(4)).

(5) Chronic tests in which the concentrations were not measured (see subsection (g)(2)).

(6) Tests with previously exposed organisms (see subsection (c)(6)(C)).

(7) Tests on formulated mixtures or emulsifiable concentrates (see subsection (c)(4)).

(k) A criterion consists of two (2) concentrations, the CMC and the CCC, determined as follows:

(1) The CMC is equal to one-half (½) the FAV. The CMC is an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed briefly without resulting in an unacceptable effect.

(2) The CCC is equal to the lowest of the FCV or the FPV (if available) unless other data (see subsection (j)) show that a lower value should be used. The CCC is an estimate of the highest concentration of a material in the water column to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect. If toxicity is related to a water quality characteristic, the CCC is obtained from the final chronic equation or FPV (if available) that results in the lowest concentrations in the usual range of the water quality characteristic, unless other data (see subsection (j)) show that a lower value should be used.

(3) Round both the CMC and the CCC to two (2) significant digits.

(4) The criterion is stated as follows:

(A) The procedures described in the Tier I methodology indicate that, except possibly where a commercially or recreationally important species is very sensitive, aquatic organisms should not be affected unacceptably if the four (4) day average concentration of (insert name of substance) does not exceed (insert the CCC for the substance) µg/L more than once every three (3) years on the average and if the one (1) hour average concentration does not exceed (insert the CMC for the substance) µg/L more than once every three (3) years on the average.

(B) If the CMC averaging period of one (1) hour or the CCC averaging period of four (4) days is inappropriate for the pollutant, or if the once-in-three-year allowable excursion frequency is inappropriate for the pollutant or for the sites to which a criterion is applied, then the commissioner may specify alternative averaging periods or frequencies. The choice of an alternative averaging period or frequency shall be justified by a scientifically defensible analysis demonstrating that the alternative values will protect the aquatic life uses of the water. Appropriate laboratory data or well-designed field biological surveys shall be submitted to the U.S. EPA as justification for differing averaging periods or frequencies of exceedance.

(Water Pollution Control Division; 327 IAC 2-1.5-11; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1381; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3377; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2084)

327 IAC 2-1.5-12 Determination of Tier II aquatic life values

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 12. (a) If all eight (8) minimum data requirements for calculating an FAV using Tier I under section 11 of this rule are not met, a secondary acute value (SAV) for the waters of the Great Lakes system shall be calculated for a chemical as follows:

(1) To calculate a SAV, the lowest GMAV in the database is divided by the secondary acute factor (SAF) (Table 12-1 in this section) corresponding to the number of satisfied minimum data requirements listed in the Tier I methodology (section 11(d)(2)(A) of this rule). (Requirements for definitions, data collection, and data review, contained in section 11(b), 11(c), and 11(e) of this rule, shall be applied to calculation of a SAV.) If all eight (8) minimum data requirements are satisfied, a Tier I criterion calculation may be possible. In order to calculate a SAV, the database must contain, at a minimum, a genus mean acute value (GMAV) for one (1) of the following three (3) genera in the family Daphnidae:

(A) Ceriodaphnia sp.

(B) Daphnia sp.

(C) Simocephalus sp.

(2) If appropriate, the SAV shall be made a function of a water quality characteristic in a manner similar to that described in the Tier I calculation procedure under section 11(f) of this rule.

(b) If three (3) or more experimentally determined ACRs, meeting the data collection and review requirements of section 11(g) of this rule, are available for the chemical, determine the FACR using the procedure described in section 11(g) of this rule. If fewer than three (3) acceptable experimentally determined ACRs are available, use enough assumed ACRs of eighteen (18) so that the total number of ACRs equals three (3). Calculate the secondary acute-chronic ratio (SACR) as the geometric mean of the three (3) ACRs. Thus, if no experimentally determined ACRs are available, the SACR is eighteen (18).

(c) Calculate the secondary chronic value (SCV) using one (1) of the following (if appropriate, the SCV will be made a function of a water quality characteristic in a manner similar to that described in the Tier I calculation procedure under section 11 of this rule):

(1) $SCV = \frac{FAV}{SACR}$ (use FAV from Tier I)

(2) $SCV = \frac{SAV}{FACR}$

(3) $SCV = \frac{SAV}{SACR}$

(d) If for a commercially or recreationally important species of the Great Lakes system the geometric mean of the acute values or chronic values from flow-through tests in which the concentrations of the test materials were measured is lower than the calculated SAV or SCV, then that geometric mean must be used as the SAV or SCV instead of the calculated SAV or SCV.

(e) A Tier II value shall consist of two (2) concentrations; the secondary maximum concentration (SMC) and the secondary continuous concentration (SCC) determined as follows:

(1) The SMC is equal to one-half (½) of the SAV.

(2) The SCC is equal to the lowest of the SCV or the final plant value, if available, unless other data (see section 11(j) of

this rule) show that a lower value should be used. If toxicity is related to a water quality characteristic, the SCC is obtained from the secondary chronic equation or FPV, if available, that results in the lowest concentrations in the usual range of the water quality characteristic, unless other data (see section 11(j) of this rule) show that a lower value should be used.

(3) Round both the SMC and the SCC to two (2) significant digits.

(4) The Tier II value is stated as follows:

(A) The procedures described in the Tier II methodology indicate that, except possibly where a locally important species is very sensitive, aquatic organisms should not be affected unacceptably if the four (4) day average concentration of (insert name of material) does not exceed (insert the SCC) µg/L more than once every three (3) years on the average and if the one (1) hour average concentration does not exceed (insert the SMC) µg/L more than once every three (3) years on the average.

(B) As provided under section 11(k)(4)(B) of this rule, the commissioner has the discretion to specify alternative averaging periods or frequencies.

(f) On the basis of all available pertinent laboratory and field information, determine if the Tier II value is consistent with sound scientific evidence. If it is not, another value, either higher or lower, shall be derived consistent with the procedures in this section.

(g) The following table shall be used to determine secondary acute factors (SAFs):

Table 12-1

Secondary Acute Factors

Number of Minimum Data Requirements Satisfied	Adjustment Factor
1	21.9
2	13.0
3	8.0
4	7.0
5	6.1
6	5.2
7	4.3

(Water Pollution Control Division; 327 IAC 2-1.5-12; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1391)

327 IAC 2-1.5-13 Determination of bioaccumulation factors (BAFs)

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 13. (a) This section describes procedures for deriving BAFs to be used in the calculation of human health Tier I criteria and Tier II values, and criteria documents issued after January 1, 1980, and wildlife Tier I criteria. A subset of the human health BAFs is also used to identify the chemicals that are considered BCCs. BAFs are derived as follows:

(1) Bioaccumulation reflects uptake of a substance by aquatic organisms exposed to the substance through all routes, such as ambient water and food, as would occur in nature. Bioconcentration reflects uptake of a substance by aquatic organisms exposed to the substance only through the ambient water. Both BAFs and BCFs are proportionality constants that describe the relationship between the concentration of a substance in aquatic organisms and its concentration in the ambient water. In this section, BAFs, rather than BCFs, are used to calculate Tier I criteria for human health and wildlife, and Tier II values for human health, because they better account for the total exposure of aquatic organisms to chemicals.

(2) For organic chemicals, the lipid content of the aquatic organisms is used to account for partitioning of organic chemicals within organisms, so that data from different tissues and species can be integrated. The baseline BAF is based on the concentration of freely dissolved organic chemicals in the ambient water to facilitate extrapolation from one (1) water to another. Baseline BAFs must be derived using one (1) of the following four (4) methods:

(A) Measured baseline BAFs are derived from field-measured BAFs.

(B) Predicted baseline BAFs are derived using BSAFs.

(C) Predicted baseline BAFs are derived by multiplying a laboratory-measured BCF by a FCM.

(D) Predicted baseline BAFs are derived by multiplying a predicted BCF by a FCM.

(3) For inorganic chemicals, BAFs are assumed to equal BCFs (that is, the FCM is one (1.0)), unless chemical-specific biomagnification data support using a FCM other than one (1.0). The baseline BAFs are derived using either of the following two (2) methods:

(A) Field-measured BAFs.

(B) By multiplying laboratory-measured BCFs by a FCM.

(4) Because both humans and wildlife consume fish from both trophic levels three (3) and four (4), two (2) baseline BAFs are needed to calculate either a human health criterion or value, or a wildlife criterion, for a chemical. When appropriate, ingestion through consumption of invertebrates, plants, mammals, and birds in the diet of wildlife species to be protected may be taken into account.

(b) The following procedures must be used to review and select the data necessary to determine BAFs, BSAFs, and BCFs:

(1) Measured BAFs, BSAFs, and BCFs are assembled from available sources, including the following:

(A) U.S. EPA Ambient Water Quality Criteria* documents issued after January 1, 1980.

(B) Published scientific literature.

(C) Reports issued by U.S. EPA or other reliable sources.

(D) Unpublished data.

(E) Sources referenced in the Aquatic Toxicity Information Retrieval (AQUIRE) database*.

(2) The following procedural and quality assurance requirements must be met for field-measured BAFs:

(A) The field studies used must be limited to those conducted in the Great Lakes system, with fish at or near the top of the aquatic food chain such as in trophic levels three (3) or four (4).

(B) The trophic level of the fish species must be determined.

(C) The site of the field study should not be so unique that the BAF cannot be extrapolated to other locations where the criteria and values will apply.

(D) For organic chemicals, the percent lipid must be either measured or reliably estimated for the tissue used in the determination of the BAF.

(E) The concentration of the chemical in the water must be measured in a way that can be related to particulate organic carbon (POC) or dissolved organic carbon (DOC), and should be relatively constant during the steady-state time period.

(F) For organic chemicals with log K_{OW} greater than four (4), the concentrations of POC and DOC in the ambient water must be either measured or reliably estimated.

(G) For inorganic and organic chemicals, BAFs must be used only if they are expressed on a wet weight basis. BAFs reported on a dry weight basis cannot be converted to wet weight unless a conversion factor is measured or reliably estimated for the tissue used in the determination of the BAF.

(3) The following procedural and quality assurance requirements must be met for field-measured BSAFs:

(A) The field studies used must be limited to those conducted in the Great Lakes system, with fish at or near the top of the aquatic food chain such as in trophic levels three (3) or four (4).

(B) Samples of surface sediments (zero (0) to one (1) centimeter is ideal) must be from locations where there are net depositions of fine sediment, and that are representative of average surface sediment in the vicinity of the organism.

(C) The K_{OW}s used must be of acceptable quality as described in subdivision (6).

(D) The site of the field study should not be so unique that the resulting BAF cannot be extrapolated to other locations where the criteria and values will apply.

(E) The trophic level of the fish species must be determined.

(F) The percent lipid must either be measured, or reliably estimated, for the tissue used in the determination of the BAF.

(4) The following procedural and quality assurance requirements must be met for laboratory-measured BCFs:

(A) The test organism must not be diseased, unhealthy, or adversely affected by the concentration of the chemical.

(B) The total concentration of the chemical in the water must be measured, and should be relatively constant during the steady-state time period.

(C) The organisms must be exposed to the chemical using a flow-through or renewal procedure.

(D) For organic chemicals, the percent lipid must either be measured or reliably estimated for the tissue used in the determination of the BCF.

(E) For organic chemicals with log K_{OW} greater than four (4), the concentrations of POC and DOC in the test solution must either be measured or reliably estimated.

(F) Laboratory-measured BCFs should be determined using fish species, but BCFs determined with molluscs and other invertebrates may be used with caution. For example, because invertebrates metabolize some chemicals less efficiently than vertebrates, a baseline BCF determined for a chemical using invertebrates is expected to be higher than a comparable baseline BCF determined using fish.

(G) If laboratory-measured BCFs increase or decrease as the concentration of the chemical increases in the test solutions in a bioconcentration test, the BCF measured at the lowest test concentration that is above concentrations existing in the control water must be used. For example, a BCF should not be calculated from a control treatment. The concentrations of an inorganic chemical in a bioconcentration test should be:

(i) greater than normal background levels; and

(ii) greater than levels required for normal nutrition of the test species if the chemical is a micronutrient;

but below levels that adversely affect the species. Bioaccumulation of an inorganic chemical might be overestimated if concentrations are at or below normal background levels due to nutritional requirements of the test organisms, for example.

(H) For inorganic and organic chemicals, BCFs must be used only if they are expressed on a wet weight basis. BCFs reported on a dry weight basis cannot be converted to wet weight unless a conversion factor is measured, or reliably estimated, for the tissue used in the determination of the BAF.

(I) BCFs for organic chemicals may be based on measurement of radioactivity only when the BCF is intended to include metabolites, or when there is confidence that there is no interference due to metabolites.

(J) The calculation of the BCF must appropriately address growth dilution.

(K) Other aspects of the methodology used must be similar to those described by ASTM, 2013, Standard Practice for Conducting Bioconcentration Tests with Fishes and Saltwater Bivalve Molluscs, Standard E 1022**.

(5) The following procedural and quality assurance requirements must be met for predicted BCFs:

(A) The K_{OW} used must be of acceptable quality as described in subdivision (6).

(B) The predicted baseline BCF must be calculated using the equation:

$$\text{predicted baseline BCF} = K_{OW}$$

Where: K_{OW} = octanol-water partition coefficient.

(6) The value of K_{OW} must be determined as follows:

(A) The value of K_{OW} used for an organic chemical must be determined by giving priority to the experimental and computational techniques used as follows:

(i) Where the Log K_{OW} is less than four (4) (Log $K_{OW} < 4$):

Priority	Technique
1	Slow-stir
1	Generator-column
1	Shake-flask
2	Reverse-phase liquid chromatography on C18 chromatography packing with extrapolation to zero percent solvent
3	Reverse-phase liquid chromatography on C18 chromatography packing without extrapolation to zero percent solvent
4	Calculated by the CLOGP program

(ii) Where the Log K_{OW} is greater than four (4) (Log $K_{OW} > 4$):

Priority	Technique
1	Slow-stir
1	Generator-column
2	Reverse-phase liquid chromatography on C18 chromatography packing with extrapolation to zero percent solvent
3	Reverse-phase liquid chromatography on C18 chromatography packing without extrapolation to zero percent solvent

4 Shake-flask

5 Calculated by the CLOGP program

(B) The CLOGP program is a computer program available from Pomona College. A value of K_{OW} that seems to be different from the others should be considered an outlier and not used. The value of K_{OW} used for an organic chemical must be the geometric mean of the available K_{OW}s with highest priority, or can be calculated from the arithmetic mean of the available log K_{OW}s with the highest priority. Because it is an intermediate value in the derivation of a BAF, the value used for the K_{OW} of a chemical should not be rounded to fewer than three (3) significant digits, and a value for log K_{OW} should not be rounded to fewer than three (3) significant digits after the decimal point.

(7) This section provides overall guidance for the derivation of BAFs, but it cannot cover all the decisions that must be made in the review and selection of acceptable data. Professional judgment is required throughout the process. A degree of uncertainty is associated with the determination of any BAF, BSAF, BCF, or K_{OW}. The amount of uncertainty in a baseline BAF depends on both the quality of data available and the method used to derive the BAF.

(8) In subsections (c) through (g), "BAF", "BSAF", "BCF", and "K_{OW}" refer to the "BAF", "BSAF", "BCF", and "K_{OW}" that are consistent with the procedural and quality assurance requirements given in this subsection.

(c) For comparative purposes, baseline BAFs should be derived for each chemical by as many of the four (4) methods as available data allow. Baseline BAFs must be derived using the following four (4) methods, which are listed from most preferred to least preferred:

(1) A measured baseline BAF for an organic or inorganic chemical derived from a field study of acceptable quality.

(2) A predicted baseline BAF for an organic chemical derived using field-measured BSAFs of acceptable quality.

(3) A predicted baseline BAF for an organic or inorganic chemical derived from a BCF measured in a laboratory study of acceptable quality and an FCM.

(4) A predicted baseline BAF for an organic chemical derived from a K_{OW} of acceptable quality and an FCM.

(d) The following procedures must be used to calculate baseline BAFs for organic chemicals:

(1) The following procedures must be used to determine the lipid-normalized concentration:

(A) It is assumed that BAFs and BCFs for organic chemicals can be extrapolated on the basis of percent lipid from one (1) tissue to another and from one (1) aquatic species to another in most cases.

(B) Because BAFs and BCFs for organic chemicals are related to the percent lipid, it does not make any difference whether the tissue sample is whole body or edible portion, but both the BAF (or BCF) and the percent lipid must be determined for the same tissue. The percent lipid of the tissue should be measured during the BAF or BCF study, but in some cases it can be reliably estimated from measurements on tissue from other organisms. If percent lipid is not reported for the test organisms in the original study, it may be obtained from the author; or, in the case of a laboratory study, lipid data for the same or a comparable laboratory population of test organisms that were used in the original study may be used.

(C) The lipid-normalized concentration, $C\ell$, of a chemical in tissue is defined using the following equation:

$$C_{\ell} = \frac{C_B}{f_{\ell}}$$

Where: C_B = concentration of the organic chemical in the tissue of aquatic biota (either whole organism or specified tissue) (micrograms per gram).

f_{ℓ} = fraction of the tissue that is lipid.

(2) By definition, baseline BAFs and BCFs for organic chemicals, whether measured or predicted, are based on the concentration of the chemical that is freely dissolved in the ambient water in order to account for bioavailability. The following procedures must be used to determine this freely dissolved concentration:

(A) For the purposes of this subsection, the relationship between the total concentration of the chemical in the water (that which is freely dissolved plus that which is sorbed to particulate organic carbon or to dissolved organic carbon), to the freely dissolved concentration of the chemical in the ambient water, must be calculated using the following equation:

$$C_w^{fd} = (f_{fd})(C_w^t)$$

Where: C_w^{fd} = freely dissolved concentration of the organic chemical in the ambient water.

C_w^t = total concentration of the organic chemical in the ambient water.

f_{fd} = fraction of the total chemical in the ambient water that is freely dissolved.

(B) The fraction of the total chemical in the ambient water that is freely dissolved, f_{fd}, must be calculated using the following equation:

$$f_{fd} = \frac{1}{1 + \frac{(DOC)(K_{OW})}{10} + (POC)(K_{OW})}$$

Where: DOC = concentration of dissolved organic carbon in kilograms of dissolved organic carbon per liter of water.

K_{OW} = octanol-water partition coefficient of the chemical.

POC = concentration of particulate organic carbon in kilograms of particulate organic carbon per liter of water.

(3) In the absence of a field-measured BAF or a predicted BAF derived from a BSAF, a FCM must be used to calculate the baseline BAF for trophic levels three (3) and four (4) from a laboratory-measured or predicted BCF. For an organic chemical, the FCM used must be derived from Table 13-1 in subsection (h), using the chemical's log K_{OW} and linear interpolation. An FCM greater than one (1.0) applies to most organic chemicals with a log K_{OW} of four (4) or more. The trophic level used must take into account the age or size of the fish species consumed by the human, avian, or mammalian predator because, for some species of fish, the young are in trophic level three (3), whereas the adults are in trophic level four (4).

(4) A baseline BAF must be calculated from a field-measured BAF of acceptable quality using the following equation:

$$\text{Baseline BAF} = \left[\frac{\text{Measured BAF}_T^t}{f_{fd}} - 1 \right] \left(\frac{1}{f_\ell} \right)$$

Where: BAF_T^t = based on total concentration in tissue and water.

f_ℓ = fraction of the tissue that is lipid.

f_{fd} = fraction of the total chemical that is freely dissolved in the ambient water.

The trophic level to which the baseline BAF applies is the same as the trophic level of the organisms used in the determination of the field-measured BAF. For each trophic level, a species mean measured baseline BAF must be calculated as the geometric mean if more than one (1) measured baseline BAF is available for a given species. For each trophic level, the geometric mean of the species mean measured baseline BAFs must be calculated. If a baseline BAF based on a measured BAF is available for either trophic level three (3) or four (4), but not both, a measured baseline BAF for the other trophic level must be calculated using the ratio of the FCMs that are obtained by linear interpolation from Table 13-1 in subsection (h) for the chemical.

(5) A baseline BAF must be calculated from a field-measured BAF in accordance with the following:

(A) A baseline BAF for organic chemical "i" must be calculated from a field-measured BSAF of acceptable quality using the following equation:

$$(\text{Baseline BAF})_i = (\text{Baseline BAF})_r \bullet \frac{(BSAF)_i \bullet (K_{OW})_i}{(BSAF)_r \bullet (K_{OW})_r}$$

Where: $(BSAF)_i$ = BSAF for chemical "i".

$(BSAF)_r$ = BSAF for the reference chemical "r".

$(K_{OW})_i$ = octanol-water partition coefficient for chemical "i".

$(K_{OW})_r$ = octanol-water partition coefficient for the reference chemical "r".

(B) A BSAF must be calculated using the following equation:

$$BSAF = \frac{C_\ell}{C_{SOC}}$$

Where: C_ℓ = the lipid-normalized concentration of the chemical in tissue.

C_{SOC} = the organic carbon-normalized concentration of the chemical in sediment.

(C) The organic carbon-normalized concentration of a chemical in sediment, C_{SOC}, must be calculated using the following equation:

$$C_{SOC} = \frac{C_S}{f_{OC}}$$

Where: C_S = concentration of chemical in sediment (micrograms per gram of sediment).

f_{OC} = fraction of the sediment that is organic carbon.

(D) Predicting BAFs from BSAFs requires data from a steady-state (or near steady-state) condition between sediment and ambient water for both a reference chemical "r" with a field-measured BAF^d, and other chemicals "n = i" for which BSAFs are to be determined.

(E) The trophic level to which the baseline BAF applies is the same as the trophic level of the organisms used in the determination of the BSAF. For each trophic level, a species mean baseline BAF must be calculated as the geometric mean if more than one (1) baseline BAF is predicted from BSAFs for a given species. For each trophic level, the geometric mean of the species mean baseline BAFs derived using BSAFs must be calculated.

(F) If a baseline BAF based on a measured BSAF is available for either trophic level three (3) or four (4), but not both, a baseline BAF for the other trophic level must be calculated using the ratio of the FCMs that are obtained by linear interpolation from Table 13-1 in subsection (h) for the chemical.

(6) A baseline BAF for trophic level three (3), and a baseline BAF for trophic level four (4), must be calculated from a laboratory-measured BCF of acceptable quality and a FCM using the following equation:

$$\text{Baseline BAF} = (FCM)\left[\frac{\text{Measured } BCF_T^t}{f_{fd}} - 1\right]\left(\frac{1}{f_\ell}\right)$$

Where: BCF_T^t = BCF based on total concentration in tissue and water.

f_ℓ = fraction of the tissue that is lipid.

f_{fd} = fraction of the total chemical in the test water that is freely dissolved.

FCM = the food-chain multiplier obtained from Table 13-1 in subsection (h) by linear interpolation for trophic level three (3) or four (4), as necessary.

For each trophic level, a species mean baseline BAF must be calculated as the geometric mean if more than one (1) baseline BAF is predicted from laboratory-measured BCFs for a given species. For each trophic level, the geometric mean of the species mean baseline BAFs based on laboratory-measured BCFs must be calculated.

(7) A baseline BAF for trophic level three (3), and a baseline BAF for trophic level four (4), must be calculated from a K_{OW} of acceptable quality and a FCM using the following equation:

$$\text{Baseline BAF} = (FCM)(\text{predicted baseline BCF}) = (FCM)(K_{OW})$$

Where: FCM = the food-chain multiplier obtained from Table 13-1 in subsection (h) by linear interpolation for trophic level three (3) or four (4) as necessary.

K_{OW} = octanol-water partition coefficient.

(e) The following procedures must be used to calculate human health and wildlife BAFs for organic chemicals:

(1) To calculate human health and wildlife BAFs for an organic chemical, the K_{OW} of the chemical must be used with a POC

concentration of 0.00000004 kilograms per liter and a DOC concentration of 0.000002 kilograms per liter to yield the fraction freely dissolved:

$$f_{fd} = \frac{1}{1 + \frac{(DOC)(K_{OW})}{10} + (POC)(K_{ow})}$$

$$= \frac{1}{1 + \frac{\left(0.000002\frac{kg}{L}\right)(K_{OW})}{10} + \left(0.00000004\frac{kg}{L}\right)(K_{OW})}$$

$$= \frac{1}{1 + (0.0000024\frac{kg}{L})(K_{OW})}$$

(2) The human health BAFs for an organic chemical must be calculated using the following equations:

(A) For trophic level three (3):

$$\text{Human Health } BAF_{TL3}^{HH} = [(\text{baseline BAF})(0.0182) + 1](f_{fd})$$

Where: 0.0182 is the standardized fraction lipid value for trophic level three (3) that is used to derive human health criteria and values.

(B) For trophic level four (4):

$$\text{Human Health } BAF_{TL4}^{HH} = [(\text{baseline BAF})(0.0310) + 1](f_{fd})$$

Where: 0.0310 is the standardized fraction lipid value for trophic level four (4) that is used to derive human health criteria and values.

(3) The wildlife BAFs for an organic chemical must be calculated using the following equations:

(A) For trophic level three (3):

$$\text{Wildlife } BAF_{TL3}^{WL} = [(\text{baseline BAF})(0.0646) + 1](f_{fd})$$

Where: 0.0646 is the standardized fraction lipid value for trophic level three (3) that is used to derive wildlife criteria.

(B) For trophic level four (4):

$$\text{Wildlife } BAF_{TL4}^{WL} = [(\text{baseline BAF})(0.1031) + 1](f_{fd})$$

Where: 0.1031 is the standardized fraction lipid value for trophic level four (4) that is used to derive wildlife criteria.

(f) The following procedures must be used to calculate human health and wildlife BAFs for inorganic chemicals:

(1) For inorganic chemicals, the baseline BAFs for trophic levels three (3) and four (4) are both assumed to equal the BCF determined for the chemical with fish; for example, the FCM is assumed to be one (1) for both trophic levels three (3) and four (4). However, an FCM greater than one (1) might be applicable to some metals, such as mercury, if an organometallic form of the metal biomagnifies, for example.

(2) The following procedures must be used to calculate human health BAFs for inorganic chemicals:

(A) Measured BAFs and BCFs used to determine human health BAFs for inorganic chemicals must be based on the edible tissue, such as muscle, of freshwater fish, unless it is demonstrated that whole body BAFs or BCFs are similar to edible tissue BAFs or BCFs. BCFs and BAFs based on measurements of aquatic plants and invertebrates should not be used in the derivation of human health criteria and values.

(B) If one (1) or more field-measured baseline BAFs for an inorganic chemical are available from studies conducted in the Great Lakes system with the muscle of fish:

(i) for each trophic level, a species mean measured baseline BAF must be calculated as the geometric mean if more than one (1) measured BAF is available for a given species; and

(ii) for each trophic level, the geometric mean of the species mean measured baseline BAFs must be used as the human health BAF for that chemical.

(C) If an acceptable measured baseline BAF is not available for an inorganic chemical and one (1) or more acceptable edible portion laboratory measured BCFs are available for the chemical, a predicted baseline BAF must be calculated by multiplying the geometric mean of the BCFs times a FCM. The FCM will be one (1.0) unless chemical-specific biomagnification data support using a multiplier other than one (1.0). The predicted baseline BAF must be used as the human health BAF for that chemical.

(3) The following procedures must be used to calculate wildlife BAFs for inorganic chemicals:

(A) Measured BAFs and BCFs used to determine wildlife BAFs for inorganic chemicals must be based on whole body freshwater fish and invertebrate data, unless it is demonstrated that edible tissue BAFs or BCFs are similar to whole body BAFs or BCFs.

(B) If one (1) or more field-measured baseline BAFs for an inorganic chemical are available from studies conducted in the Great Lakes system with whole body of fish or invertebrates:

(i) for each trophic level, a species mean measured baseline BAF must be calculated as the geometric mean if more than one (1) measured BAF is available for a given species; and

(ii) for each trophic level, the geometric mean of the species mean measured baseline BAFs must be used as the wildlife BAF for that chemical.

(C) If an acceptable measured baseline BAF is not available for an inorganic chemical, and one (1) or more acceptable whole body laboratory measured BCFs are available for the chemical, a predicted baseline BAF must be calculated by multiplying the geometric mean of the BCFs times a FCM. The FCM will be one (1.0) unless chemical-specific biomagnification data support using a multiplier other than one (1.0). The predicted baseline BAF must be used as the wildlife BAF for that chemical.

(g) For both organic and inorganic chemicals, human health and wildlife BAFs for both trophic levels must be reviewed for consistency with all available data concerning the bioaccumulation, bioconcentration, and metabolism of the chemical. For example, information concerning octanol-water partitioning, molecular size, or other physicochemical properties that might enhance or inhibit bioaccumulation should be considered for organic chemicals. BAFs derived in accordance with this methodology should be modified if changes are justified by available data.

(h) The following must be used to obtain food-chain multipliers:

Table 13-1

Food-Chain Multipliers for Trophic Levels 2, 3, and 4

Log K_{OW}	T. L. 2	T. L. 3[a]	T. L. 4
2.0	1.000	1.005	1.000
2.5	1.000	1.010	1.002
3.0	1.000	1.028	1.007
3.1	1.000	1.034	1.007
3.2	1.000	1.042	1.009
3.3	1.000	1.053	1.012
3.4	1.000	1.067	1.014
3.5	1.000	1.083	1.019
3.6	1.000	1.103	1.023
3.7	1.000	1.128	1.033
3.8	1.000	1.161	1.042
3.9	1.000	1.202	1.054
4.0	1.000	1.253	1.072
4.1	1.000	1.315	1.096
4.2	1.000	1.380	1.13

4.3	1.000	1.491	1.178
4.4	1.000	1.614	1.242
4.5	1.000	1.766	1.334
4.6	1.000	1.950	1.459
4.7	1.000	2.175	1.633
4.8	1.000	2.452	1.871
4.9	1.000	2.780	2.193
5.0	1.000	3.181	2.612
5.1	1.000	3.643	3.162
5.2	1.000	4.188	3.873
5.3	1.000	4.803	4.742
5.4	1.000	5.502	5.821
5.5	1.000	6.266	7.079
5.6	1.000	7.096	8.551
5.7	1.000	7.962	10.209
5.8	1.000	8.841	12.050
5.9	1.000	9.716	13.964
6.0	1.000	10.556	15.996
6.1	1.000	11.337	17.783
6.2	1.000	12.064	19.907
6.3	1.000	12.691	21.677
6.4	1.000	13.228	23.281
6.5	1.000	13.662	24.604
6.6	1.000	13.980	25.645
6.7	1.000	14.223	26.363
6.8	1.000	14.355	26.669
6.9	1.000	14.388	26.669
7.0	1.000	14.305	26.242
7.1	1.000	14.142	25.468
7.2	1.000	13.852	24.322
7.3	1.000	13.474	22.856
7.4	1.000	12.987	21.038
7.5	1.000	12.517	18.967
7.6	1.000	11.708	16.749
7.7	1.000	10.914	14.388
7.8	1.000	10.069	12.050
7.9	1.000	9.162	9.840
8.0	1.000	8.222	7.798
8.1	1.000	7.278	6.012
8.2	1.000	6.361	4.519
8.3	1.000	5.489	3.311
8.4	1.000	4.683	2.371
8.5	1.000	3.949	1.663
8.6	1.000	3.296	1.146
8.7	1.000	2.732	0.778

8.8	1.000	2.246	0.521
8.9	1.000	1.837	0.345
9.0	1.000	1.493	0.226

[a]The FCMs for trophic level 3 are the geometric mean of the FCMs for sculpin and alewife.

*Copies of these documents and access to the AQUIRE database may be obtained from U.S. EPA, 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460, www.epa.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204.

**Copies of this document may be obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428, www.astm.org, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1.5-13; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1392; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3377; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1.5-14 Determination of human health criteria and values

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 14. (a) This subsection establishes a procedure required when developing Tier I criteria and Tier II values for the protection of human health as follows:

(1) The goal of the human health criteria for the Great Lakes system is the protection of humans from unacceptable exposure to toxicants via consumption of contaminated fish and drinking water, and from ingesting water as a result of participation in water-oriented recreational activities.

(2) The criteria developed must provide a level of protection likely to be without appreciable risk of carcinogenic or noncarcinogenic effects. Criteria are a function of the level of designated risk or no adverse effect estimation, selection of data, and exposure assumptions. Ambient criteria for single carcinogens must not be set at a level representing a lifetime upper-bound incremental risk greater than one (1) in one hundred thousand (100,000) of developing cancer using the hazard assessment techniques and exposure assumptions described in this subsection. Criteria affording protection from noncarcinogenic effects must be established at levels that, taking into account uncertainties, are considered likely to be without an appreciable risk of adverse human health effects (such as acute, subchronic, and chronic toxicity, including reproductive and developmental effects) during a lifetime of exposure, using the risk assessment techniques and exposure assumptions described in this subsection.

(3) Chemical concentration levels in surface water protective of human health must be derived based on either a Tier I or Tier II classification. The two (2) Tiers are primarily distinguished by the amount of toxicity data available for deriving the concentration levels, and the quantity and quality of data on bioaccumulation.

(b) The best available toxicity data on the adverse health effects of a chemical and the best data on bioaccumulation factors must be used when developing human health Tier I criteria or Tier II values. The best available toxicity data must include data from well-conducted epidemiologic or animal studies that provide, in the case of carcinogens, an adequate weight of evidence of potential human carcinogenicity and, in the case of noncarcinogens, a dose-response relationship involving critical effects biologically relevant to humans. The information can be obtained from the U.S. EPA Integrated Risk Information System (IRIS) database*, the scientific literature, and other informational databases, studies, or reports containing adverse health effects data of adequate quality for use in this procedure. Strong consideration must be given to the most currently available guidance provided by IRIS in deriving criteria or values, supplemented with any recent data not incorporated into IRIS. When deviations from IRIS are anticipated or considered necessary, actions to address the deviations must be communicated to the U.S. EPA Reference Dose (RfD) or the Cancer Risk Assessment Verification Endeavor (CRAVE) workgroup. The best available bioaccumulation data must include data from field studies and well-conducted laboratory studies as follows:

(1) Tier I criteria and Tier II values must be derived using the methodologies described in subsection (c)(1) when there is adequate evidence of potential human carcinogenic effects for a chemical. The U.S. EPA classification system for chemical carcinogens, which is described in the U.S. EPA Guidelines for Carcinogen Risk Assessment, (EPA/630/P-03/001F, March 2005, and U.S. EPA 2005 Supplemental Guidance, EPA/630/R-03/00BF, March 2005)**, must be used in determining

whether adequate evidence of potential carcinogenic effects exists as follows:

(A) Carcinogens are classified, depending on the weight of evidence, as either human carcinogens, probable human carcinogens, or possible human carcinogens. The human evidence is considered inadequate and therefore the chemical cannot be classified as a human carcinogen if one (1) of the two (2) following conditions exists:

(i) There are few pertinent data.

(ii) The available studies, while showing evidence of association, do not exclude chance, bias, or confounding and therefore a causal interpretation is not credible. The animal evidence is considered inadequate, and therefore the chemical cannot be classified as a probable or possible human carcinogen, when, because of major qualitative or quantitative limitations, the evidence cannot be interpreted as showing either the presence or absence of a carcinogenic effect.

(B) Chemicals are described as human carcinogens when there is sufficient evidence from epidemiological studies to support a causal association between exposure to the chemicals and cancer.

(C) Chemicals described as probable human carcinogens include chemicals for which the weight of evidence of human carcinogenicity based on epidemiological studies is limited. Limited human evidence is that which indicates that a causal interpretation is credible, but that alternative explanations, such as chance, bias, or confounding, cannot adequately be excluded. Probable human carcinogens are also agents for which there is sufficient evidence from animal studies, and for which there is inadequate evidence or no data from epidemiologic studies as follows:

(i) Sufficient animal evidence is provided by data that indicate that there is an increased incidence of malignant tumors or combined malignant and benign tumors:

(AA) in multiple species or strains;

(BB) in multiple experiments with different routes of administration or using different dose levels, for example; or

(CC) to an unusual degree in a single experiment with regard to high incidence, unusual site or type of tumor, or early age at onset.

(ii) Additional evidence may be provided by data on dose-response effects, as well as information from short term tests such as mutagenicity and genotoxicity tests that help determine whether the chemical interacts directly with DNA, or on chemical structure, metabolism, or mode of action.

(D) Possible human carcinogens are chemicals with limited evidence of carcinogenicity in animals in the absence of human data as follows:

(i) Limited animal evidence is defined as data that suggest a carcinogenic effect but are limited because:

(AA) the studies involve a single species, strain, or experiment and do not meet criteria for sufficient evidence (see clause (C));

(BB) the experiments are restricted by inadequate dosage levels, inadequate duration of exposure to the agent, inadequate period of follow-up, poor survival, too few animals, or inadequate reporting; or

(CC) the studies indicate an increase in the incidence of benign tumors only.

(ii) More specifically, this group may include a wide variety of evidence, for example:

(AA) a malignant tumor response in a single, well-conducted experiment that does not meet conditions for sufficient evidence;

(BB) tumor response of marginal statistical significance in studies having inadequate design or reporting;

(CC) benign but not malignant tumors with an agent showing no response in a variety of short term tests for mutagenicity; and

(DD) response of marginal statistical significance in a tissue known to have a high or variable background rate.

(E) Weight of evidence of potential human carcinogenic effects sufficient to derive a Tier I human cancer criterion (HCC):

(i) generally include human carcinogens;

(ii) generally include probable human carcinogens; and

(iii) may include, on a case-by-case basis, possible human carcinogens if studies have been well-conducted

albeit based on limited evidence, when compared to studies used in classifying human and probable human carcinogens.

(F) The decision to use data on a possible human carcinogen for deriving Tier I criteria must be a case-by-case determination. In determining whether to derive a Tier I HCC, additional evidence that must be considered includes the following:

(i) Available information on mode of action, such as mutagenicity and genotoxicity (determinations of whether the chemical interacts directly with DNA).

(ii) Structure activity.

(iii) Metabolism.

(G) Weight of evidence of possible human carcinogenic effects sufficient to derive a Tier II human cancer value must include those possible human carcinogens for which there are, at a minimum, data sufficient for quantitative risk assessment, but for which data are inadequate for Tier I criterion development due to a tumor response of marginal statistical significance or inability to derive a strong dose-response relationship. As with the use of data on possible human carcinogens in developing Tier I criteria, the decision to use data on possible human carcinogens to derive Tier II values must be made on a case-by-case basis. In determining whether to derive Tier II human cancer values, additional evidence that must be considered includes, but is not limited to, the following:

(i) Available information on mode of action such as mutagenicity and genotoxicity (determinations of whether the chemical interacts directly with DNA).

(ii) Structure activity.

(iii) Metabolism.

(2) All available toxicity data must be evaluated considering the full range of possible health effects of a chemical, such as acute/subacute, chronic/subchronic, and reproductive/developmental effects, in order to best describe the dose-response relationship of the chemical, and to calculate human noncancer criteria and values that will protect against the most sensitive endpoint of toxicity. Although it is desirable to have an extensive database that considers a wide range of possible adverse effects, this type of data exists for a very limited number of chemicals. For many others, there is a range in quality and quantity of data available. To ensure reliability of criteria and values, it is necessary to establish a minimum database with which to develop Tier I criteria or Tier II values. The following represent the minimum data sets necessary for this procedure:

(A) The minimum data set sufficient to derive a Tier I HNC must include at least one (1) well-conducted epidemiologic study or animal study. A well-conducted epidemiologic study for a Tier I HNC must quantify the exposure level and demonstrate positive association between exposure to a chemical and an adverse effect in humans. A well-conducted study in animals must demonstrate a dose-response relationship involving one (1) or more critical effects biologically relevant to humans. For example, study results from an animal whose pharmacokinetics and toxicokinetics match those of a human would be considered most biologically relevant. Ideally, the duration of a study should span multiple generations of exposed test species, or at least a major portion of the life span of one (1) generation. This type of data is currently very limited. By the use of uncertainty adjustments, shorter term studies such as ninety (90) day subchronic studies with evaluation of more limited effect may be used to extrapolate to longer exposures or to account for a variety of adverse effects. For Tier I criteria developed pursuant to this procedure, such a limited study must be conducted for at least ninety (90) days in rodents, or ten percent (10%) of the life span of other appropriate test species, and demonstrate a NOAEL. Chronic studies of one (1) year or longer in rodents, or fifty percent (50%) of the life span or greater in other appropriate test species, that demonstrate a LOAEL may be sufficient for use in Tier I criterion derivation, if the effects observed at the LOAEL were relatively mild and reversible as compared to effects at higher doses. This does not preclude the use of a LOAEL from a study of chronic duration with only one (1) or two (2) doses, if the effects observed appear minimal when compared to effect levels observed at higher doses in other studies.

(B) When the minimum data for deriving Tier I criteria are not available to meet the Tier I data requirements, a more limited database may be considered for deriving Tier II values. As with Tier I criteria, all available data must be considered, and ideally should address a range of adverse health effects with exposure over a substantial portion of the life span, or multiple generations, of the test species. When data are lacking, it may be necessary to rely on less extensive data in order to establish a Tier II value. With the use of appropriate uncertainty factors to account for a

less extensive database, the minimum data sufficient to derive a Tier II value must include a NOAEL from at least one (1) well-conducted short term repeated dose study. This study must be of at least twenty-eight (28) days duration in animals demonstrating a dose-response, and involving effects biologically relevant to humans. Data from studies of longer duration, greater than twenty-eight (28) days, and LOAELs from these studies may be more appropriate in some cases for derivation of Tier II values. Use of a LOAEL should be based on consideration of the following information:

(i) Severity of effect.

(ii) Quality of the study.

(iii) Duration of the study.

(3) The following procedures must be used to determine minimum bioaccumulation data requirements:

(A) To be considered a Tier I cancer or noncancer human health criterion, along with satisfying the minimum toxicity data requirements of subdivisions (1)(E) and (2)(A), a chemical must have the following minimum bioaccumulation data:

(i) For all organic chemicals either:

(AA) a field-measured BAF;

(BB) a BAF derived using the BSAF methodology; or

(CC) a chemical with a BAF less than one hundred twenty-five (125) regardless of how the BAF was derived.

(ii) For all inorganic chemicals, including organometals such as mercury, either:

(AA) a field-measured BAF; or

(BB) a laboratory-measured BCF.

(B) A chemical is considered a Tier II cancer or noncancer human health value if it does not meet either the minimum toxicity data requirements of subdivisions (1)(E) and (2)(A) or the minimum bioaccumulation data requirements of clause (A).

(c) The fundamental components of the procedure to calculate Tier I criteria or Tier II values are the same. However, certain of the aspects of the procedure designed to account for short duration studies or other limitations in data are more likely to be relevant in deriving Tier II values than Tier I criteria. The following procedures must be used to develop Tier I criteria and Tier II values:

(1) The following procedures apply for carcinogens:

(A) A nonthreshold mechanism of carcinogenesis must be assumed unless biological data adequately demonstrate the existence of a threshold on a chemical-specific basis.

(B) All appropriate human epidemiologic data and animal cancer bioassay data must be considered. Data specific to an environmentally appropriate route of exposure must be used. Oral exposure should be used preferentially over dermal and inhalation since, in most cases, the exposure routes of greatest concern are fish consumption and drinking water/incidental ingestion. The risk associated dose must be set at a level corresponding to an incremental cancer risk of one (1) in one hundred thousand (100,000). If acceptable human epidemiologic data are available for a chemical, it must be used to derive the risk associated dose. If acceptable human epidemiologic data are not available, the risk associated dose must be derived from available animal bioassay data. Data from a species that is considered most biologically relevant to humans, or responds most like humans, is preferred where all other considerations regarding quality of data are equal. In the absence of data to distinguish the most relevant species, data from the most sensitive species tested, that is, the species showing a carcinogenic effect at the lowest administered dose, must generally be used.

(C) When animal bioassay data are used and a nonthreshold mechanism of carcinogenicity is assumed, the data are fitted to a linearized multistage computer model. The upper bound ninety-five percent (95%) confidence limit on risk (or the lower ninety-five percent (95%) confidence limit on dose) at the one (1) in one hundred thousand (100,000) risk level must be used to calculate a RAD. Other models, including modifications or variations of the linear multistage model that are more appropriate to the available data, may be used where scientifically justified.

(D) If the duration of the study is significantly less than the natural life span of the test animal, the slope may be adjusted on a case-by-case basis to compensate for latent tumors that were not expressed. In the absence of alternative approaches that compensate for study durations significantly less than lifetime, the commissioner may use the process described in the 1980 National Guidelines (see 45 FR 79352).

(E) A species scaling factor must be used to account for differences between test species and humans. It must be assumed that milligrams per surface area per day is an equivalent dose between species (U.S. EPA Guidelines for Carcinogen Risk Assessment, EPA/630/P-03/001F, March 2005, and U.S. EPA 2005 Supplemental Guidance, EPA/630/R-03/00BF, March 2005)**. All doses presented in milligram per kilogram body weight will be converted to an equivalent surface area dose by raising the milligram per kilogram dose to the two-thirds (2/3) power. However, if adequate pharmacokinetic and metabolism studies are available, these data may be factored into the adjustment for species differences on a case-by-case basis.

(F) Additional data selection and adjustment decisions must also be made in the process of quantifying risk. Consideration must be given to tumor selection for modeling, pooling estimates for multiple tumor types and identifying and combining benign and malignant tumors, for example. All doses must be adjusted to give an average daily dose over the study duration. Adjustments in the rate of tumor response must be made for early mortality in test species. The goodness-of-fit of the model to the data must also be assessed.

(G) When a linear, nonthreshold dose response relationship is assumed, the RAD must be calculated using the following equation:

$$RAD = \frac{0.00001}{q_1^*}$$

Where:

RAD = risk associated dose in milligrams of toxicant per kilogram body weight per day (mg/kg/day).

$0.00001\ (1 \times 10^{-5})$ = incremental risk of developing cancer equal to one (1) in one hundred thousand (100,000).

q_1^* = slope factor $(mg/kg/day)^{-1}$.

(H) If human epidemiologic data or other biological animal data indicate that a chemical causes cancer via a threshold mechanism, the risk associated dose may, on a case-by-case basis, be calculated using a method that assumes a threshold mechanism is operative.

(2) The following procedures apply for noncarcinogens:

(A) Noncarcinogens must generally be assumed to have a threshold dose or concentration below which no adverse effects should be observed. Therefore, the Tier I criterion or Tier II value is the maximum water concentration of a substance at or below which a lifetime exposure from drinking the water, consuming fish caught in the water, and ingesting water as a result of participating in water-related recreation activities is likely to be without appreciable risk of deleterious effects. For some noncarcinogens, there may not be a threshold dose below which no adverse effects should be observed. Chemicals acting as genotoxic teratogens and germline mutagens are thought to possibly produce reproductive or developmental effects via a genetically-linked mechanism which may have no threshold. Other chemicals also may not demonstrate a threshold. Criteria for these types of chemicals will be established on a case-by-case basis using appropriate assumptions reflecting the likelihood that no threshold exists.

(B) All appropriate human and animal toxicologic data must be reviewed and evaluated. To the maximum extent possible, data most specific to the environmentally relevant route of exposure must be used. Oral exposure data should be used preferentially over dermal and inhalation since, in most cases, the exposure routes of greatest concern are fish consumption and drinking water/incidental ingestion. When acceptable human data are not available, such as well-conducted epidemiologic studies, animal data from species most biologically relevant to humans must be used. In the absence of data to distinguish the most relevant species, data from the most sensitive animal species tested, such as the species showing a toxic effect at the lowest administered dose (given a relevant route of exposure), should generally be used.

(C) Minimum data requirements are specified in subsection (b)(2). The experimental exposure level representing the highest level tested at which no adverse effects were demonstrated (NOAEL) from studies satisfying the provisions of subsection (b)(2) must be used for criteria calculations. In the absence of a NOAEL, the LOAEL from studies satisfying the provisions of subsection (b)(2) may be used if it is based on relatively mild and reversible effects.

(D) Uncertainty factors (UFs) must be used to account for the uncertainties in predicting acceptable dose levels for the general human population based upon experimental animal data or limited human data as follows:

(i) A UF of ten (10) must generally be used when extrapolating from valid experimental results from studies on prolonged exposure to average healthy humans. This ten (10) fold factor is used to protect sensitive members

of the human population.

(ii) A UF of one hundred (100) must generally be used when extrapolating from valid results of long term studies on experimental animals, when results of studies of human exposure are not available or are inadequate. In comparison to item (i), this represents an additional ten (10) fold UF in extrapolating data from the average animal to the average human.

(iii) A UF of up to one thousand (1,000) must generally be used when extrapolating from animal studies for which the exposure duration is less than chronic, but greater than subchronic, such as ninety (90) days or more in length, or when other significant deficiencies in study quality are present, and when useful long term human data are not available. In comparison to item (ii), this represents an additional UF of up to ten (10) fold for less than chronic, but greater than subchronic, studies.

(iv) A UF of up to three thousand (3,000) must generally be used when extrapolating from animal studies for which the exposure duration is less than subchronic, such as twenty-eight (28) days. In comparison to item (ii), this represents an additional UF of up to thirty (30) fold for less than subchronic studies. The level of additional uncertainty applied for less than chronic exposures depends on the duration of the study used relative to the lifetime of the experimental animal.

(v) An additional UF of between one (1) and ten (10) may be used when deriving a criterion from a LOAEL. This UF accounts for the lack of an identifiable NOAEL. The level of additional uncertainty applied may depend upon the severity and the incidence of the observed adverse effect.

(vi) An additional UF of between one (1) and ten (10) may be applied when there are limited effects data or incomplete subacute or chronic toxicity data, such as reproductive or developmental data. The level of quality and quantity of the experimental data available, as well as structure activity relationships, may be used to determine the factor selected.

(vii) When deriving a UF in developing a Tier I criterion or Tier II value, the total uncertainty, as calculated following the procedures in items (i) through (vi) must not exceed ten thousand (10,000) for Tier I criteria and thirty thousand (30,000) for Tier II values.

(E) All study results must be converted, as necessary, to the standard unit of milligrams of toxicant per kilogram of body weight per day (mg/kg/day). Doses must be adjusted for continuous exposure, that is, seven (7) days per week, twenty-four (24) hours per day.

(F) The RfD must be calculated using the following equation:

$$RfD = \frac{NOAEL\ (or\ LOAEL)}{UF}$$

Where:

RfD = Reference dose in milligrams of toxicant per kilogram body weight per day (mg/kg/day).

NOAEL (or LOAEL) = The no observed adverse effect level or lowest observed adverse effect level as determined in accordance with clause (C).

UF = The product of the uncertainty factors as determined in accordance with clause (D).

(3) The following procedures must be used to derive criteria and values:

(A) This subdivision lists the standard exposure assumptions used to calculate Tier I criteria and Tier II values for carcinogens and noncarcinogens. Different levels of exposure may be used where appropriate in deriving site-specific criteria pursuant to section 16 of this rule. The standard exposure assumptions are as follows:

(i) BW = Body weight of an average human (BW = 70 kilograms).

(ii) WC_d = Per capita water consumption, both drinking and incidental exposure, for surface waters classified as public water supplies = two (2) liters per day.

(iii) WC_r = Per capita incidental daily water ingestion for surface waters not used as human drinking water sources = 0.01 liters per day.

(iv) FC = Per capita daily consumption of regionally caught freshwater fish = 0.015 kg/day (0.0036 kilograms per day for trophic level three (3) and 0.0114 kilograms per day for trophic level four (4)).

(v) BAF = Bioaccumulation factor for trophic level three (3) and trophic level four (4) as derived using the BAF methodology in section 13 of this rule.

(B) The Tier I human cancer criteria or Tier II values must be calculated as follows:

$$HCV = \frac{RAD \times BW}{WC + [(FC_{TL3} \times BAF^{HH}_{TL3}) + (FC_{TL4} \times BAF^{HH}_{TL4})]}$$

Where:

HCV = Human cancer value in milligrams per liter (mg/L).

RAD = Risk associated dose in milligrams toxicant per kilogram body weight per day (mg/kg/day) that is associated with a lifetime incremental cancer risk equal to one (1) in one hundred thousand (100,000).

BW = Weight of an average human (BW = 70 kilograms).

WC_d = Per capita water consumption, both drinking and incidental exposure, for surface waters classified as public water supplies = two (2) liters per day.

WC_r = Per capita incidental daily water ingestion for surface waters not used as human drinking water sources = 0.01 liters per day.

FC_{TL3} = Mean consumption of trophic level three (3) of regionally caught freshwater fish = 0.0036 kilograms per day.

FC_{TL4} = Mean consumption of trophic level four (4) of regionally caught freshwater fish = 0.0114 kilograms per day.

BAF^{HH}_{TL3} = Bioaccumulation factor for trophic level three (3) fish as derived using the BAF methodology in section 13 of this rule.

BAF^{HH}_{TL4} = Bioaccumulation factor for trophic level four (4) fish as derived using the BAF methodology in section 13 of this rule.

(C) The Tier I human noncancer criteria or Tier II values must be calculated as follows:

$$HNV = \frac{RfD \times BW \times RSC}{WC + [(FC_{TL3} \times BAF^{HH}_{TL3}) + (FC_{TL4} \times BAF^{HH}_{TL4})]}$$

Where:

HNV = Human noncancer value in milligrams per liter (mg/L).

RfD = Reference dose in milligrams toxicant per kilogram body weight per day (mg/kg/day).

RSC = Relative source contribution factor of eight-tenths (0.8). An RSC derived from actual exposure data may be developed using the methodology outlined by the 1980 National Guidelines (see 45 FR 79354).

BW = Weight of an average human (BW = 70 kilograms).

WC_d = Per capita water consumption, both drinking and incidental exposure, for surface waters classified as public water supplies = two (2) liters per day.

WC_r = Per capita incidental daily water ingestion for surface waters not used as human drinking water sources = 0.01 liters/day.

FC_{TL3} = Mean consumption of trophic level three (3) fish by regional sport fishers of regionally caught freshwater fish = 0.0036 kilograms per day.

FC_{TL4} = Mean consumption of trophic level four (4) fish by regional sport fishers of regionally caught freshwater fish = 0.0114 kilograms per day.

BAF^{HH}_{TL3} = Human health bioaccumulation factor for edible portion of trophic level three (3) fish as derived using the BAF methodology in section 13 of this rule.

BAF^{HH}_{TL4} = Human health bioaccumulation factor for edible portion of trophic level four (4) fish as derived using the BAF methodology in section 13 of this rule.

*This database may be accessed from the U.S. Environmental Protection Agency, IRIS Hotline c/o EPA Docket Center (EPA West, Mail Code 28221T), 1301 Constitution Avenue N.W., Washington, D.C. 20005, or www.epa.gov/iris.

**These documents are incorporated by reference. Copies may be obtained from the U.S. Environmental Protection Agency,

Office of Water Resource Center (EPA West, Room 1119), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1.5-14; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1398; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3377; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1.5-15 Determination of wildlife criteria

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 15. (a) This section establishes a procedure that is required when developing Tier I wildlife criteria for BCCs as follows:

(1) This method may be used for the development of Tier I criteria or Tier II values for pollutants other than BCCs for which the commissioner determines:

(A) Tier I criteria or Tier II values are necessary for the protection of wildlife in the Great Lakes basin; and

(B) that this method is applicable to the pollutant.

(2) In the event that this procedure is used to develop criteria for pollutants other than BCCs, the procedure for deriving bioaccumulation factors under section 13 of this rule must be used. For chemicals that do not biomagnify to the extent of BCCs, it may be appropriate to select different representative species that are better examples of species with the highest exposures for the given chemical. In addition, section 16 of this rule describes the procedures for calculating site-specific wildlife criteria.

(b) The following procedures must be used to calculate wildlife values for Tier I criteria:

(1) Tier I wildlife values are to be calculated using the following equation:

$$WV = \frac{\frac{TD}{UF_A \times UF_S \times UF_L} \times Wt}{W + \sum (F_{TLi} \times BAF_{TLi}^{WL})}$$

Where:

WV = Wildlife value in milligrams of substance per liter (mg/L).

TD = Test dose (TD) in milligrams of substance per kilograms per day (mg/kg/d) for the test species. This must be either a NOAEL or a LOAEL.

UF_A = Uncertainty factor (UF) for extrapolating toxicity data across species (unitless). A species-specific UF must be selected and applied to each representative species, consistent with the equation.

UF_S = UF for extrapolating from subchronic to chronic exposures (unitless).

UF_L = UF for LOAEL to NOAEL extrapolations (unitless).

Wt = Average weight in kilograms (kg) for the representative species.

W = Average daily volume of water consumed in liters per day (l/d) by the representative species.

F_{TLi} = Average daily amount of food consumed from trophic level i in kilograms per day (kg/d) by the representative species.

BAF_{TLi}^{WL} = Bioaccumulation factor (BAF) for wildlife food in trophic level i in liters per kilogram (l/kg), developed using the BAF methodology in section 13 of this rule. For consumption of piscivorous birds by other birds, for example, herring gull by eagles, the BAF is derived by multiplying the trophic level three (3) BAF for fish by a biomagnification factor to account for the biomagnification from fish to the consumed birds.

(2) For bioaccumulative chemicals, piscivorous species are identified as the focus of concern for wildlife criteria development in the Great Lakes. This methodology identifies three (3) avian species (eagle, kingfisher, and herring gull) and two (2) mammalian species (mink and otter) as representative species for protection. The TD obtained from toxicity data for each taxonomic class is used to calculate WVs for each of the five (5) representative species.

(3) The avian WV is the geometric mean of the WVs calculated for the three (3) representative avian species. The mammalian WV is the geometric mean of the WVs calculated for the two (2) representative mammalian species. The lower of the mammalian and avian WVs must be selected as the GLWC.

(c) The following procedures must be used to obtain the parameters of the effect component of the wildlife criteria procedure:

(1) A test dose (TD) value is required for criterion calculation. To derive a Tier I criterion for wildlife, the data set must provide enough data to generate a subchronic or chronic dose response curve for any given substance for both mammalian and avian species as follows:

(A) In reviewing the toxicity data available that meet the minimum data requirements for each taxonomic class, the following order of preference must be applied to select the appropriate TD to be used for calculation of individual WVs:

(i) Data from peer-reviewed field studies of wildlife species take precedence over other types of studies, where the studies are of adequate quality. An acceptable field study must be of subchronic or chronic duration, provide a defensible, chemical specific dose response curve in which cause and effect are clearly established, and assess acceptable endpoints as defined in this rule.

(ii) When acceptable wildlife field studies are not available, or determined to be of inadequate quality, the needed toxicity information may come from peer reviewed laboratory studies. When laboratory studies are used, preference must be given to laboratory studies with wildlife species over traditional laboratory animals to reduce uncertainties in making interspecies extrapolations.

(B) All available laboratory data and field studies must be reviewed to corroborate the final GLWC, to assess the reasonableness of the toxicity value used, and to assess the appropriateness of any UFs that are applied. When evaluating the studies from which a test dose is derived in general, the following requirements must be met:

(i) The mammalian data must come from at least one (1) well-conducted study of ninety (90) days or greater designed to observe subchronic or chronic effects as defined in this rule.

(ii) The avian data must come from at least one well-conducted study of twenty-eight (28) days or greater designed to observe subchronic or chronic effects as defined in this rule.

(iii) In reviewing the studies from which a TD is derived for use in calculating a WV, studies involving exposure routes other than oral may be considered only when an equivalent oral daily dose can be estimated and technically justified because the criteria calculations are based on an oral route of exposure.

(iv) In assessing the studies that meet the minimum data requirements, preference should be given to studies that assess effects on developmental or reproductive endpoints because, in general, these are more important endpoints in ensuring that a population's productivity is maintained.

(2) In selecting data to be used in the derivation of WVs, the evaluation of acceptable endpoints, as defined in this rule, will be the primary selection criterion. All data not part of the selected subset may be used to assess the reasonableness of the toxicity value and the appropriateness of the UFs that are applied as follows:

(A) If more than one (1) TD value is available within a taxonomic class, based on different endpoints of toxicity, that TD, which is likely to reflect best potential impacts to wildlife populations through resultant changes in mortality or fecundity rates, must be used for the calculation of WVs.

(B) If more than one (1) TD is available within a taxonomic class, based on the same endpoint of toxicity, the TD from the most sensitive species must be used.

(C) If more than one (1) TD based on the same endpoint of toxicity is available for a given species, the TD for that species must be calculated using the geometric mean of those TDs.

(3) The following exposure assumptions are made in the determination of the TD:

(A) In those cases in which a TD is available in units other than milligrams of substance per kilograms per day (mg/kg/d), clauses (B) and (C) must be used to convert the TD to the appropriate units prior to calculating a WV.

(B) If the TD is given in milligrams of toxicant per liter of water consumed by the test animals (mg/L), the TD must be multiplied by the daily average volume of water consumed by the test animals in liters per day (L/d) and divided by the average weight of the test animals in kilograms (kg).

(C) If the TD is given in milligrams of toxicant per kilogram of food consumed by the test animals (mg/kg), the TD must be multiplied by the average amount of food in kilograms consumed daily by the test animals (kg/d) and divided

by the average weight of the test animals in kilograms (kg).

(4) Drinking and feeding rates must be determined as follows:

(A) When drinking and feeding rates and body weight are needed to express the TD in milligrams of substance per kilograms per day (mg/kg/d), they are obtained from the study from which the TD was derived. If not already determined, body weight and drinking and feeding rates are to be converted to a wet weight basis.

(B) If the study does not provide the needed values, the values must be determined from appropriate scientific literature. When scientific literature does not contain exposure information for the species used in a given study, either the allometric equations which are presented in clauses (C) and (D), or the exposure estimation methods presented in Chapter 4 of the Wildlife Exposure Factors Handbook (U.S. EPA, EPA/600/R-93/187a and b, December 1993)*, must be applied to approximate the needed feeding or drinking rates. The choice of the methods described in this clause is at the discretion of the commissioner.

(C) For mammalian species, the general allometric equations are:

(i) $F = (0.0687)(Wt)^{0.82}$

Where: F = Feeding rate of mammalian species in kilograms per day (kg/d) dry weight.
Wt = Average weight in kilograms (kg) of the test animals.

(ii) $W = (0.099)(Wt)^{0.90}$

Where: W = Drinking rate of mammalian species in liters per day (L/d).
Wt = Average weight in kilograms (kg) of the test animals.

(D) For avian species, the general allometric equations are:

(i) $F = (0.0582)(Wt)^{0.65}$

Where: F = Feeding rate of avian species in kilograms per day (kg/d) dry weight.
Wt = Average weight in kilograms (kg) of the test animals.

(ii) $W = (0.059)(Wt)^{0.67}$

Where: W = Drinking rate of avian species in liters per day (L/d).
Wt = Average weight in kilograms (kg) of the test animals.

(5) In those cases in which a NOAEL is unavailable as the TD and a LOAEL is available, the LOAEL may be used to estimate the NOAEL. If used, the LOAEL must be divided by the UF to estimate a NOAEL for use in deriving WVs. The value of the UF must not be less than one (1) and should not exceed ten (10), depending on the dose-response curve and any other available data, and is represented by UF_L in the equation expressed in subsection (b)(1).

(6) In instances where only subchronic data are available, the TD may be derived from subchronic data. In these cases, the TD must be divided by the UF to extrapolate from subchronic to chronic levels. The value of the UF must not be less than one (1) and should not exceed ten (10), and is represented by UF_S in the equation expressed in subsection (b)(1). This factor is to be used when assessing highly bioaccumulative substances where toxicokinetic considerations suggest that a bioassay of limited length underestimates chronic effects.

(7) The following procedure must be used to determine an uncertainty factor for interspecies extrapolations (UF_A):

(A) The selection of the UF_A must be based on the available toxicological data and on available data concerning the physicochemical, toxicokinetic, and toxicodynamic properties of the substance in question and the amount and quality of available data. This value is the UF that is intended to account for differences in toxicological sensitivity among species.

(B) For the derivation of Tier I criteria, a UF_A must not be less than one (1) and should not exceed one hundred (100), and must be applied to each of the five (5) representative species, based on existing data and best professional judgement. The value of UF_A may differ for each of the representative species.

(C) For Tier I wildlife criteria, the UF_A must be used only for extrapolating toxicity data across species within a taxonomic class, except as provided in this clause. The Tier I UF_A is not intended for interclass extrapolations because of the poorly defined comparative toxicokinetic and toxicodynamic parameters between mammals and birds. However, an interclass extrapolation employing a UF_A may be used for a given chemical if it can be supported by a validated biologically-based dose response model or by an analysis of interclass toxicological data, considering acceptable endpoints, for a chemical analog that acts under the same mode of toxic action.

(d) The following procedures must be used to determine the parameters of the exposure component of the wildlife criteria

procedure:

(1) The body weights (Wt), feeding rates (F_{Tli}), drinking rates (W), and trophic level dietary composition, as food ingestion rate and percent in diet, for each of the five (5) representative species are presented in Table 15-1 in subsection (e).

(2) The procedure for the determination of bioaccumulation factors is contained under section 13 of this rule. Trophic levels three (3) and four (4) BAFs are used to derive WVs because these are the trophic levels at which the representative species feed.

(e) The following exposure parameters for the five (5) representative species identified for protection must be used:

Table 15-1

Exposure Parameters for the Five Representative Species Identified for Protection

Species	Adult Body Weight (kg)	Water Ingestion Rate (L/day)	Food Ingestion Rate of Prey in Each Trophic Level (kg/day)	Trophic Level of Prey (Percent of Diet)
Mink	0.80	0.081	TL3: 0.159	TL3: 90%
			Other: 0.0177	Other: 10%
Otter	7.4	0.600	TL3: 0.977	TL3: 80%
			TL4: 0.244	TL4: 20%
Kingfisher	0.15	0.017	TL3: 0.0672	TL3: 100%
Herring gull	1.1	0.063	TL3: 0.192	Fish: 90%
			TL4: 0.0480	TL3: 80%
			Other: 0.0267	TL4: 20%
				Other: 10%
Bald eagle	4.6	0.160	TL3: 0.371	Fish: 92%
			TL4: 0.0929	TL3: 80%
			PB: 0.0283	TL4: 20%
			Other: 0.0121	Birds: 8%
				PB: 70%
				nonaquatic: 30%

TL3 = trophic level three fish
TL4 = trophic level four fish
PB = piscivorous birds
Other = nonaquatic birds and mammals

*This document is incorporated by reference. Copies are available from the U.S. Environmental Protection Agency, Office of Water Resource Center, 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-1.5-15; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1404; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3378; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

327 IAC 2-1.5-16 Site-specific modifications to Tier I criteria and Tier II values

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-15-4-1; IC 13-18-4

Sec. 16. (a) Site-specific modifications to Tier I criteria and Tier II values must be protective of designated uses and aquatic life, wildlife, or human health. In addition, any site-specific modifications that result in less stringent criteria must be based on a sound scientific rationale and shall not be likely to jeopardize the continued existence of endangered or threatened species listed or proposed under Section 4 of the Endangered Species Act (ESA) or result in the destruction or adverse modification of such species' critical habitats. More stringent modifications shall be developed to protect endangered or threatened species listed or proposed under Section 4 of the ESA, where such modifications are necessary to ensure that water quality is not likely to jeopardize the continued existence of such species or result in the destruction or adverse modification of such species' critical habitats. More stringent modifications may also be developed to protect candidate (C1) species being considered by the U.S. Fish and Wildlife Service (FWS)

for listing under Section 4 of the ESA, where such modifications are necessary to protect such species. Criteria and values may be modified on a site-specific basis to reflect local environmental conditions as restricted by the following provisions:

(1) Aquatic life criteria or values may be modified on a site-specific basis as follows:

(A) Aquatic life criteria or values may be modified on a site-specific basis to provide an additional level of protection.

(B) Less stringent site-specific modifications to chronic or acute aquatic life criteria or values may be developed when either of the following conditions applies:

(i) The local water quality characteristics such as pH, hardness, temperature, or color alter the biological availability or toxicity of a pollutant.

(ii) The sensitivity of the aquatic organisms species that occur at the site differs from the species actually tested in developing the criteria.

(C) Less stringent modifications also may be developed to acute and chronic aquatic life criteria or values to reflect local physical and hydrological conditions.

(D) Any modifications to protect threatened or endangered aquatic species required by this subsection may be accomplished using either of the two (2) following procedures:

(i) If the SMAV for a listed or proposed species or for a surrogate of such species is lower than the calculated FAV, such lower SMAV may be used instead of the calculated FAV in developing site-specific modified criteria.

(ii) The site-specific criteria may be calculated using the recalculation procedure for site-specific modifications under 327 IAC 2-1-13.

(2) Wildlife criteria or values may be modified on a site-specific basis as follows:

(A) Wildlife water quality criteria may be modified on a site-specific basis to provide an additional level of protection.

(B) Less stringent site-specific modifications to wildlife water quality criteria may be developed when a site-specific bioaccumulation factor (BAF) is derived that is lower than the system-wide BAF derived under section 13 of this rule. The modification must consider both the mobility of prey organisms and wildlife populations in defining the site for which criteria are developed. In addition, there must be a showing that the following conditions are met:

(i) Any increased uptake of the toxicant by prey species utilizing the site will not cause adverse effects in wildlife populations.

(ii) Wildlife populations utilizing the site or downstream waters will continue to be fully protected.

(C) Any modification to protect endangered or threatened wildlife species required by this subsection must consider both the mobility of prey organisms and wildlife populations in defining the site for which criteria are developed and may be accomplished by using the following recommended method:

(i) The procedure presented in section 15 of this rule is used, substituting appropriate species-specific toxicological, epidemiological, or exposure information, including changes to the BAF.

(ii) An interspecies uncertainty factor of one (1) shall be used where epidemiological data are available for the species in question. If necessary, species-specific exposure parameters may be derived as presented in section 15 of this rule.

(iii) An intraspecies uncertainty factor, to account for protection of individuals within a wildlife population, shall be applied in the denominator of the effect part of the wildlife equation in section 15 of this rule in a manner consistent with the other uncertainty factors described in section 15 of this rule.

(iv) The resulting wildlife value for the species in question should be compared to the two (2) class specific wildlife values that were previously calculated, and the lowest of the three (3) shall be selected as the site-specific modification.

(3) BAFs may be modified on a site-specific basis as follows:

(A) BAFs may be modified on a site-specific basis to larger values where reliable data show that local bioaccumulation is greater than the system-wide value.

(B) BAFs may be modified on a site-specific basis to lower values, where scientifically defensible, if:

(i) the fraction of the total chemical that is freely dissolved in the ambient water is different than that used to derive the system-wide BAFs, that is, the concentrations of particulate organic carbon and the dissolved organic carbon are different than those used to derive the system-wide BAFs;

(ii) input parameters of the model, such as the structure of the aquatic food web and the disequilibrium constant,

are different at the site than those used to derive the system-wide BAFs;

(iii) the percent lipid of aquatic organisms that are consumed and occur at the site is different than that used to derive the system-wide BAFs; or

(iv) site-specific field-measured BAFs or biota-sediment accumulation factor (BSAFs) are determined.

(C) If site-specific BAFs are derived, they shall be derived using section 13 of this rule.

(D) Any more stringent modifications to protect threatened or endangered species required by this subsection shall be derived using procedures set forth in the methodology in section 13 of this rule.

(4) Human health criteria or values may be modified on a site-specific basis as follows:

(A) Human health criteria or values may be modified on a site-specific basis to provide an additional level of protection in accordance with the following:

(i) Human health criteria or values shall be modified on a site-specific basis to provide additional protection appropriate for highly exposed subpopulations.

(ii) Any person may request the commissioner to develop a site-specific modification of a human health criterion or value to make it more stringent.

(iii) The commissioner shall develop the site-specific modification of the human health criterion or value to make it more stringent when either of the following conditions applies:

(AA) Local fish consumption rates are higher than the rate used to derive a human health criterion or value applicable under section 14 of this rule.

(BB) A site-specific BAF is derived that is higher than that used in deriving a human health criterion of value under section 14 of this rule.

(B) Less stringent site-specific modifications to human health criteria or values may be developed when either of the following conditions applies:

(i) Local fish consumption rates are lower than the rate used in deriving human health criteria or values under section 14 of this rule.

(ii) A site-specific BAF is derived that is lower than that used in deriving human health criteria or values under section 14 of this rule.

(C) Local fish consumption rates referenced in clauses (A)(iii)(AA) and (B)(i) shall be determined by a fish consumption survey applicable to the site.

(b) The application requirements for site-specific modifications to criteria or values allowed under subsection (a) are as follows:

(1) Except as provided in subdivision (2), the application requirements for site-specific modifications to criteria or values shall be determined by the commissioner on a case-by-case basis.

(2) Applications for site-specific modifications to criteria or values allowed under subsection (a)(1)(B)(ii) and determined using the recalculation procedure under 327 IAC 2-1-13 shall include the following:

(A) A list of all species of aquatic invertebrates, amphibians, and fishes that are known to occur at the site, along with the source of the information.

(B) A list of all aquatic plant, invertebrate, amphibian, and fish species that are critical species at the site, including all species that occur at the site and are listed as threatened or endangered under section 4 of the ESA.

(C) A site-specific version of Table 1 from a criteria document produced by the U.S. EPA after 1984.

(D) A site-specific version of Table 3 from a criteria document produced by the U.S. EPA after 1984.

(E) A list of all species that were deleted.

(F) Each new calculated criterion (FAV, CMC, SMC, CCC, or SCC).

(G) Each lowered criterion or value if one (1) or more were lowered to protect a specific species.

(c) Upon receipt of an application for a site-specific modification to a criterion or value, the commissioner shall do the following:

(1) For a site-specific modification listed under subsection (d):

(A) provide notice, request comment, and, if requested, schedule and hold a public meeting on the application in accordance with 327 IAC 5-2-11.2(b); and

(B) publish all pertinent information about the proposed site-specific modification on the department's Web site.

(2) For a site-specific modification not listed under subsection (d):

(A) approve or deny the application; and

(B) if the application is approved, initiate a rulemaking to have the site-specific modification incorporated into the water quality standards.

(d) Site-specific modifications to criteria or values do not require a rulemaking if they are:

(1) allowed under subsection (a) and to a criterion not specifically listed in this rule or to a value;

(2) allowed under subsection (a)(1)(B)(i) and determined using a WER;

(3) allowed under subsection (a)(1)(B)(ii) and determined using the recalculation procedure under 327 IAC 2-1-13; or

(4) required under subsection (a) and determined under subsection (a)(1)(D).

(e) Upon approval of a site-specific modification listed in subsection (d), the commissioner shall:

(1) publish a notice in the Indiana Register;

(2) place all pertinent information about the approved site-specific modification on the department's Web site;

(3) submit the site-specific modification to U.S. EPA for approval if it is for a site-specific modification to a criterion specifically listed in this rule but not for a site-specific modification to a criterion specifically listed in this rule and expressed as a function of the WER; and

(4) incorporate the site-specific modification into the water quality standards during the next revision of the water quality standards if it is for a site-specific modification to a criterion specifically listed in this rule.

(f) Site-specific modifications to criteria specifically listed in this rule, except for site-specific modifications to criteria specifically listed in this rule and expressed as a function of the WER, shall not be incorporated into a final NPDES permit or used for other Clean Water Act purposes until approved by U.S. EPA.

(g) The following site-specific modifications to water quality criteria have been granted:

Table 16-1

Site-Specific Surface Water Quality Criteria

Waterbody	Starting Location	Ending Location	Substances	CMC (Maximum) (µg/l)	CCC (4-Day Average) (µg/l)
East Branch Grand Calumet River	U.S. Steel Outfall 005	A point one (1) mile downstream	Cyanide (Free) (adult salmonids present)	35.0	8.2
			Cyanide (Free) (salmonids absent)	45.8	10.7

(Water Pollution Control Division; 327 IAC 2-1.5-16; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1407; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3378; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2093; errata filed Jul 6, 2005, 3:12 p.m.: 28 IR 3582)

327 IAC 2-1.5-17 Variances from water quality standards for point sources

Authority: IC 13-14-8; IC 13-14-9; IC 13-15-1-2; IC 13-15-2-1; IC 13-18-3

Affected: IC 4-22-2; IC 13-11-2-24; IC 13-13-5; IC 13-14; IC 13-18-4; IC 13-18-7; IC 13-23-13; IC 13-24-1; IC 13-25-5; IC 13-30-2-1

Sec. 17. (a) A permit applicant or permittee may apply to the commissioner for a variance from the water quality standard used to derive a water quality-based effluent limitation (WQBEL) contained in a NPDES permit for a specific substance. The application for the variance must be submitted in accordance with 327 IAC 5-3-4.1. A variance to a water quality standard shall not be granted:

(1) that would likely jeopardize the continued existence of any endangered or threatened species listed under Section 4 of the Endangered Species Act (ESA) or result in the destruction or adverse modification of the species' critical habitat;

(2) if standards will be attained by implementing effluent limits required under Sections 301(b) and 306 of the Clean Water Act (CWA) and by the permittee implementing cost-effective and reasonable best management practices for nonpoint source control at the facility; or

(3) to recommencing dischargers or new Great Lakes dischargers, unless the new Great Lakes discharge occurs as the result of:

(A) a response action pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, as defined in IC 13-11-2-24;

(B) a corrective action pursuant to the Resource Conservation and Recovery Act (RCRA), as amended, as defined

in IC 13-13-5; or

(C) an action pursuant to similar federal or state authorities, including, but not limited to:

(i) an underground storage tank (UST) corrective action under IC 13-23-13;

(ii) a remediation of petroleum releases under IC 13-24-1;

(iii) a voluntary remediation under IC 13-25-5; or

(iv) an abatement or correction of any polluted condition under IC 13-18-7.

(b) The commissioner may approve all or part of a requested variance, or modify and approve a requested variance, if the permit applicant demonstrates that implementing a proposed methodology, that includes any production processes, wastewater treatment technology, or combination thereof used to reduce pollutants discharged in the wastewater from a facility, as identified under 327 IAC 5-3-4.1(b)(2)(A), will cause an undue hardship or burden upon the applicant, except as provided in subsection (a)(1) through (a)(3).

(c) In making a determination on a variance application, the commissioner shall balance the increased risk to human health and the environment if the variance is granted against the hardship or burden upon the applicant if the variance is not granted so that the commissioner is able to conclude that any increased risk is consistent with the protection of the public health, safety, and welfare. In balancing these factors, the commissioner shall consider the following to determine if the hardship or burden upon the applicant is undue:

(1) For variance applications, except those governed under subdivision (2), the following must be considered:

(A) The cost and cost effectiveness of pollutant removal by implementing the methodologies proposed by the applicant and the methodology capable of attaining the WQBEL.

(B) The reduction in concentrations and loadings of pollutants attainable by the methodologies proposed by the applicant as compared with the reduction attainable by use of the methodology capable of attaining the WQBEL.

(C) The impact of the proposed methodologies and the methodology capable of attaining the WQBEL on the price of the goods or services provided by the applicant.

(D) Information on the relative price of goods or services in the same market as the applicant.

(E) The overall impact of attaining the WQBEL and implementing the proposed methodologies on employment at the facility.

(F) Information on the type and magnitude of adverse or beneficial environmental impacts, including the net impact on the receiving water, resulting from the proposed methodologies that could be applied to the control of the substance for which a variance is applied. This information must include the extent of any increased risk to human health and the environment associated with each of the proposed methodologies.

(G) Other relevant information requested by the commissioner or supplied by the applicant or the public.

(2) For variance applications where the necessity for the variance is a short term, temporary discharge resulting from the dredging of contaminated sediments from a waterbody and is conducted under any of the federal or state authorities listed under subsection (a)(3), the following must be considered:

(A) The cost and cost effectiveness of pollutant removal by implementing the methodologies proposed by the applicant and the methodology capable of attaining the WQBEL.

(B) The reduction in concentrations and loadings of pollutants attainable by the methodologies proposed by the applicant as compared with the reduction attainable by use of the methodology capable of attaining the WQBEL.

(C) Information on the type and magnitude of adverse or beneficial environmental impacts, including the net impact on the receiving water, resulting from the proposed methodologies that could be applied to the control of the substance for which a variance is applied. This information must include the extent of any increased risk to human health and the environment associated with each of the proposed methodologies. In considering the information required by this clause, the commissioner shall also consider that the action is the following:

(i) For the protection, maintenance, or restoration of the environment.

(ii) Short term and temporary.

(D) Other relevant information requested by the commissioner or supplied by the applicant or the public.

(d) The commissioner may grant the variance when the requirements of subsections (b) and (c) are met.

(e) A determination to grant or deny a requested variance must be made in accordance with 327 IAC 5-3-4.1. In making this determination, the commissioner may also consider other information available to the agency or supplied by the applicant or the public.

(f) A variance applies only to the permit applicant requesting the variance and only to the substance specified in the variance application. The granting of a variance does not imply or require that the water quality standard corresponding to the variance be modified through a rulemaking in accordance with IC 4-22-2 and IC 13-14-9.

(g) A variance or any renewal thereof must not be granted for a term greater than that allowed by IC 13-14-8. Notwithstanding the time at which the application for a variance is submitted under 327 IAC 5-3-4.1, a variance must not be granted for a term greater than the term remaining under the permit to which the variance is attached.

(h) Neither the filing of a variance application nor the granting of a variance is grounds for the staying or dismissing of or a defense in a pending enforcement action. A variance must be prospective only.

(i) The following variance from water quality standards found at section 8 of this rule has been granted:

Table 17-1

Variances from Water Quality Standards

Waterbody	Affected Discharger	Starting Location	Ending Location	Substance	Variance Limit (mg\L)
H.D. Wood Ditch and Mud Creek	IN0021296	Angola WWTP Outfall 001	Confluence with Pigeon Creek	Chloride	745 Monthly Average 1,024 Daily Maximum

(Water Pollution Control Division; 327 IAC 2-1.5-17; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1409; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3378; filed Jun 14, 2013, 9:43 a.m.: 20130710-IR-327120512FRA; filed Nov 28, 2022, 10:27 a.m.: 20221228-IR-327220110FRA)

327 IAC 2-1.5-18 Designation of a waterbody as a limited use water or classification as an outstanding state resource water

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-3-2; IC 13-18-4

Sec. 18. (a) Except as provided in subsection (f), a person who wishes to propose that a waterbody within the Great Lakes system be considered by the commissioner for designation as a limited use water shall submit to the commissioner a written proposal:

(1) identifying the waterbody and stating the rationale for the proposal; and

(2) including any other supporting documentation.

(b) The commissioner shall evaluate the proposal for limited use water redesignation considering the following:

(1) Waters that meet the following conditions may be considered for designation as a limited use water:

(A) Waters that have:

(i) naturally poor physical characteristics (that is, suitable habitat to support a well-balanced fish community is severely limited or absent) including lack of sufficient flow ($Q_{7,10}$ low flow upstream of any existing or proposed discharge of one-tenth (0.1) cubic foot per second or less);

(ii) naturally poor chemical quality;

(iii) irreversible man-induced conditions that came into existence before January 1, 1983; and

(iv) no unique or exceptional features.

(B) No potential or existing uses made of the waterbody by people in the immediate area would be adversely affected by a limited use designation.

(2) The waterbody has been evaluated by a use attainability analysis.

(c) After completion of the evaluation under subsection (b), if the commissioner determines that redesignation of the waterbody is appropriate, the commissioner shall initiate a rulemaking to include the waterbody as a limited use water under section 19(a) of this rule.

(d) All waters that are designated as a limited use water under section 19(a) of this rule must be evaluated for restoration and upgrading at each triennial review of this rule.

(e) Factors that relate to outstanding state resource water classifications shall be in accordance with IC 13-18-3-2(f) through IC 13-18-3-2(j) and may include, but are not limited to, the following:

(1) The presence of any of the following:

(A) A unique or exceptional habitat or species in the waterbody.

(B) A rare or endangered species in the waterbody.

(C) Exceptional aesthetic quality in the immediate environs of the waterbody.

(2) The waterbody:

(A) is within the boundaries of or flows through a designated natural area, nature preserve, or state or national park or forest;

(B) supports an excellent sports fishery; or

(C) possesses exceptional quality.

(3) Intensive recreational use is made of the waterbody.

(4) Designation as a natural, scenic, or recreational waterbody by the Indiana department of natural resources.

(f) A person seeking to obtain a CSO wet weather limited use subcategory designation shall do so in accordance with 327 IAC 2-1-3.1. *(Water Pollution Control Division; 327 IAC 2-1.5-18; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1410; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3378; filed Sep 6, 2007, 12:25 p.m.: 20071003-IR-327050218FRA; filed May 29, 2012, 3:19 p.m.: 20120627-IR-327080764FRA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)*

327 IAC 2-1.5-19 Limited use waters and outstanding state resource waters

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 19. (a) The following waters within the Great Lakes system are designated for limited use:

(1) Berlin Court Ditch in Elkhart County from the Nappanee sewage treatment plant to two (2) miles downstream.

(2) An unnamed tributary and Werntz Ditch in Elkhart County from the Wakarusa STP to the confluence of Werntz Ditch and Baugo Creek.

(3) Hilkey Ditch in DeKalb County from the County Line Cheese Company outfall to North County Line Road one and one-half (1.5) miles downstream.

(4) Hindman Ditch in DeKalb County from the Ralph Sechler Company outfall downstream to its confluence with Bear Creek.

(b) In addition to the waters of the state listed at 327 IAC 2-1-11(b) and 327 IAC 2-1.3-3(d), the following waters are classified as outstanding state resource waters:

(1) Cedar Creek in Allen and DeKalb counties, from river mile 13.7 to its confluence with the St. Joseph River.

(2) The Indiana portion of the open waters of Lake Michigan.

(3) All waters incorporated in the Indiana Dunes National Lakeshore.

(Water Pollution Control Division; 327 IAC 2-1.5-19; filed Jan 14, 1997, 12:00 p.m.: 20 IR 1411; errata filed Aug 11, 1997, 4:15 p.m.: 20 IR 3378; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA)

327 IAC 2-1.5-20 Incorporation by reference *(Repealed)*

Sec. 20. *(Repealed by Water Pollution Control Division; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

Rule 2. Cyanides and Cyanogen Compounds; Drainage into Sewer Systems or Watercourses Prohibited; Exception

327 IAC 2-2-1 Cyanides or cyanogen compounds; drainage prohibition

327 IAC 2-2-1 Cyanides or cyanogen compounds; drainage prohibition

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-18-4; IC 13-30-2-1

Sec. 1. Any person, firm, or corporation engaged in manufacture or other process in which cyanides or cyanogen compounds are used shall have each and every room, where said compounds are used or stored, so constructed that none of said compounds can escape therefrom by means of building sewer, drain or otherwise directly or indirectly into any sewer system or water-course. However, on application to and prior approval by the commissioner, limited amounts, which it is determined would not be detrimental to public health or which would not pollute any lake, river, stream, drainage or roadside ditch or other water-course, shall not come under the provision of the paragraph above. *(Water Pollution Control Division; 327 IAC 2-2-1; filed Sep 24, 1987, 3:00 pm: 11 IR*

587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

Rule 3. Coal Mines; Restrictions on Acid Drainage and Refuse Deposits into State Waters

327 IAC 2-3-1 Coal mines; acid mine drainage prohibitions

327 IAC 2-3-1 Coal mines; acid mine drainage prohibitions

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3; IC 13-18-18
Affected: IC 13-18-4

Sec. 1. (a) Every person, firm, corporation or other legal entity who owns an active or abandoned coal mine or who is engaged in the storage, transportation, use, mining or processing of coal in the state of Indiana, shall dispose of refuse, including gob and coal fines, from processing coal, so as to create minimal acid mine drainage and deposits of coal fines in waters of this state.

(b) Gob must not be used in the construction of public or private roadways in the state of Indiana, which will cause acid mine drainage to the waters of this state under the jurisdiction of the board. *(Water Pollution Control Division; 327 IAC 2-3-1; filed Sep 24, 1987, 3:00 p.m.: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)*

Rule 4. Waste Treatment Control Facilities; Discharge into State Waters; Monthly Reports

327 IAC 2-4-1 Monthly reports to board
327 IAC 2-4-2 Wastewater defined
327 IAC 2-4-3 Sampling frequency; methods of analysis
327 IAC 2-4-4 Preparation of reports by operator; time for submission

327 IAC 2-4-1 Monthly reports to board

Authority: IC 13-14; IC 13-18-3
Affected: IC 13-11-2-255; IC 13-18-12

Sec. 1. Every person, firm or corporation that operates a municipal, industrial, commercial or agricultural waste treatment plant control facility or discharges wastewaters to the waters of the state of Indiana shall submit to the commissioner monthly reports of operation, which shall include flow measurements and wastewater characteristics. *(Water Pollution Control Division; 327 IAC 2-4-1; filed Sep 24, 1987, 3:00 pm: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:19 p.m.: 20071219-IR-327070554BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-4-2 Wastewater defined

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-11-2-255; IC 13-11-2-258; IC 13-18-12

Sec. 2. For the purpose of this rule (327 IAC 2-4), wastewater is defined as the liquid and water-carried wastes from industrial, municipal, commercial or confined animal feeding operation. *(Water Pollution Control Division; 327 IAC 2-4-2; filed Sep 24, 1987, 3:00 pm: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:19 p.m.: 20071219-IR-327070554BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-4-3 Sampling frequency; methods of analysis

Authority: IC 13-14-8; IC 13-14-9; IC 13-18-3
Affected: IC 13-18-4

Sec. 3. Sampling, measurements of flow, and characteristics of the effluent must be performed at a frequency prescribed by the commissioner. All analytical work must be in accordance with 40 CFR 136* or other methods approved by the commissioner.

*This document is incorporated by reference. Copies may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-4-3; filed Sep 24, 1987, 3:00 p.m.: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; filed Feb 14, 2005, 10:05 a.m.: 28 IR 2097; readopted filed Nov 21, 2007, 1:19 p.m.: 20071219-IR-327070554BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-4-4 Preparation of reports by operator; time for submission

Authority: IC 13-14-8; IC 13-18-3
Affected: IC 13-11-2-258; IC 13-18-11

Sec. 4. All reports shall be prepared by the certified wastewater treatment plant operator, licensed under the provisions of IC 13-18-11, when such discharge(s) originate(s) in whole or in part from a wastewater treatment plant as defined in IC 13-11-2-258. Such reports shall be submitted prior to the 28th day of the following month. *(Water Pollution Control Division; 327 IAC 2-4-4; filed Sep 24, 1987, 3:00 pm: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:19 p.m.: 20071219-IR-327070554BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; errata filed Jul 31, 2017, 11:06 a.m.: 20170809-IR-327170349ACA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

Rule 5. Phosphates; Permits for Use by Manufacturers and Processors; Detergents

327 IAC 2-5-1 Use of phosphorus detergents; permits

327 IAC 2-5-1 Use of phosphorus detergents; permits

Authority: IC 13-14-8; IC 13-18-9-3
Affected: IC 13-15

Sec. 1. Any manufacturer or processor required to use detergents containing phosphorus for cleaning plant or equipment shall obtain a permit therefor from the commissioner.

(a) The application for the permit shall be made on a form provided by the commissioner and shall include as a minimum the following:

(1) Phosphorus content of the detergent by weight and the maximum daily and monthly average quantities used.

(2) Description of the use and why a phosphorus detergent is required.

(3) The means of treatment that will be installed using the best practicable control technology for removal of phosphorus from the wastewater before discharge directly into the waters of Indiana or into any sewer or drain that enters the waters of the state of Indiana.

(b) The commissioner may issue a permit for a period not to exceed four (4) years, upon a determination that the use of phosphorus detergents is necessary with no adequate substitute available and that the best practicable treatment method of removal of phosphorus is accomplished prior to discharge of the treated effluent. Renewal applications must be submitted to the commissioner at least sixty (60) days in advance of the expiration date of the permit. *(Water Pollution Control Division; 327 IAC 2-5-1; filed Sep 24, 1987, 3:00 pm: 11 IR 587; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

Rule 6. Spills of Oil and Other Objectionable Substances; Reporting, Containment and Cleanup *(Repealed)*

(Repealed by Water Pollution Control Division; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1734)

Rule 6.1. Spills; Reporting, Containment, and Response

327 IAC 2-6.1-1	Applicability
327 IAC 2-6.1-2	Special areas
327 IAC 2-6.1-3	Exclusions
327 IAC 2-6.1-4	Definitions
327 IAC 2-6.1-5	Reportable spills; facility
327 IAC 2-6.1-6	Reportable spills; transportation
327 IAC 2-6.1-7	Reportable spills; responsibilities
327 IAC 2-6.1-8	Emergency spill response actions
327 IAC 2-6.1-9	Compliance confirmation

327 IAC 2-6.1-1 Applicability

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 1. This rule applies to the reporting and containment of, and the response to those spills of hazardous substances, extremely hazardous substances, petroleum, and objectionable substances that are of a quantity, type, duration and in a location as to damage the waters of the state. Nothing in this rule is intended to affect reporting or clean-up requirements set forth by other federal, state, or local laws. *(Water Pollution Control Division; 327 IAC 2-6.1-1; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1731; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-6.1-2 Special areas

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 2. Certain areas of the state are recognized as having unique geology. A large section of the mid-southern part of the state is a karst region. Portions of Saint Joseph, Elkhart, Kosciusko, and LaGrange Counties contain a sole source aquifer as referenced in 42 U.S.C. 300h-3(e). The waters of the state are particularly vulnerable to damage from spills in these areas, and care should be exercised when evaluating damage from spills. Information about these areas can be obtained by calling the Department of Environmental Management, Office of Land Quality, Emergency Response Section: Area Code 1-888-233-7745 for in-state calls (toll free), (317) 233-7745 for out-of-state calls. *(Water Pollution Control Division; 327 IAC 2-6.1-2; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1731; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; errata filed May 27, 2008, 2:06 p.m.: 20080625-IR-327080419ACA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-6.1-3 Exclusions

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 3. Notwithstanding any other section of this rule, the reporting requirement of this rule does not apply to the following occurrences:

(1) Discharges or exceedances that are under the jurisdiction of an applicable permit when the substance in question is covered by the permit and death or acute injury or illness to animals or humans does not occur.

(2) Lawful application of materials, including, but not limited to:

(A) commercial or natural fertilizers and pesticides on or to land or water; or

(B) dust suppression materials.

(3) The application of petroleum necessary for construction that does not damage waters of the state.

(4) Spills of less than one (1) pound or one (1) pint.

(5) Spills of integral operating fluids, in the use of motor vehicles or other equipment, the total volume of which is less than

or equal to fifty-five (55) gallons and which do not damage waters of the state.

(6) Oil sheens produced as a result of the normal operation of properly functioning watercraft.

(7) A release of a substance integral to a spill response activity that has been approved and authorized by a state or federal on-scene coordinator.

(Water Pollution Control Division; 327 IAC 2-6.1-3; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1731; errata filed Mar 7, 1997, 2:25 p.m.: 20 IR 1738; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-6.1-4 Definitions

Authority: IC 13-14-8-7

Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17; IC 14-8-2-7; IC 14-25-7-13; IC 14-25-7-15

Sec. 4. In addition to the definitions contained in IC 13-11-2-17(d), IC 13-11-2-35(a), IC 13-11-2-51, IC 13-11-2-158(a), IC 13-11-2-160, IC 13-11-2-260, IC 13-11-2-265, and in 327 IAC 1, the following definitions apply throughout this rule:

(1) "Animal" means all mammals, birds, reptiles, amphibians, fish, crustaceans, and mollusks.

(2) "Aquatic life" means those plants and macroinvertebrates that are dependent upon an aquatic environment.

(3) "Contain" means to take such immediate action as necessary to dam, block, restrain, or otherwise act to most effectively prevent a spill from entering waters of the state or minimize damage to the waters of the state from a spill.

(4) "Damage" means the actual or imminent alteration of the waters of the state so as to render the waters harmful, detrimental, or injurious to:

(A) public health, safety, or welfare;

(B) domestic, commercial, industrial, agricultural, or recreational uses; or

(C) animals or aquatic life.

(5) "Downstream water user" means:

(A) a community public water supply, as identified by the department of natural resources under IC 14-25-7-13(d);

(B) a significant water withdrawal facility as registered with the department of natural resources under IC 14-25-7-15;

(C) users of recreational waters; or

(D) any other user made known to the person who has a spill.

(6) "Extremely hazardous substance" means a substance identified pursuant to 42 U.S.C. 11002 and 11004. (40 CFR 355 Appendix A.)

(7) "Facility" means all land, buildings, equipment, structures, and other stationary items that are located on a single site or on contiguous sites and that are owned or operated by the same person or by any person who controls, is controlled by, or is under common control with, such person.

(8) "Facility boundary" means the boundary of a facility or an easement or right-of-way.

(9) "Hazardous substance" has the meaning set forth in 42 U.S.C. 9601(14).

(10) "Mode of transportation" includes, but is not limited to, carriage by:

(A) rail and motor vehicles;

(B) aircraft;

(C) watercraft;

(D) pipelines; or

(E) other means of transportation;

in commerce. This definition excludes carriage within a facility by transportation equipment owned, operated, or controlled by that facility.

(11) "Objectionable substances" means substances that are:

(A) of a quantity and a type; and

(B) present for a duration and in a location;

so as to damage waters of the state. This definition excludes hazardous substances, extremely hazardous substances, petroleum, and mixtures thereof.

(12) "On-scene coordinator" means a state or federal official designated by the department, the United States Environmental

Protection Agency, or the United States Coast Guard to direct and coordinate special spill response activities.

(13) "Recreational waters" means any water used for:

(A) boating, swimming, fishing, hunting, trapping, or wildlife viewing; or

(B) public access areas that are owned by the department of natural resources or the federal government;

as listed by the department.

(14) "Reportable quantity" means the amount of a hazardous substance or extremely hazardous substance that is required to be reported under federal law under 42 U.S.C. 9602(a) and (b) and 42 U.S.C. 9603(a). (40 CFR 302.4 or 40 CFR 355 Appendix A.)

(15) "Spill" means any unexpected, unintended, abnormal, or unapproved dumping, leakage, drainage, seepage, discharge or other loss of petroleum, hazardous substances, extremely hazardous substances, or objectionable substances. The term does not include releases to impermeable surfaces when the substance does not migrate off the surface or penetrate the surface and enter the soil.

(16) "Spill response", for purposes of this rule, means the following:

(A) The spill is contained; and

(B) Free material is removed or neutralized.

(17) "Spill report" means an oral report that includes the following information about a spill, to the extent that the information is known at the time of the report:

(A) The name, address, and telephone number of the person making the spill report.

(B) The name, address, and telephone number of a contact person if different from clause (A).

(C) The location of the spill.

(D) The time of the spill.

(E) The identification of the substance spilled.

(F) The approximate quantity of the substance that has been or may further be spilled.

(G) The duration of the spill.

(H) The source of the spill.

(I) Name and location of the waters damaged.

(J) The identity of any response organization responding to the spill.

(K) What measures have been or will be undertaken to perform a spill response.

(L) Any other information that may be significant to the response action.

(18) "Waters", as defined in IC 13-11-2-265, means the accumulations of water, surface and underground, natural and artificial, public and private, or parts thereof, that are wholly or partially within, flow through, or border upon this state. The term does not include any private pond or any off-stream pond, reservoir, or facility built for reduction or control of pollution or cooling of water prior to discharge unless the discharge from the pond, reservoir, or facility causes or threatens to cause water pollution.

(Water Pollution Control Division; 327 IAC 2-6.1-4; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1731; errata filed Mar 7, 1997, 2:25 p.m.: 20 IR 1738; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-6.1-5 Reportable spills; facility

Authority: IC 13-14-8-7

Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 5. The following spills from a facility must be reported:

(1) Spills that damage the waters of the state so as to cause death or acute injury or illness to humans or animals.

(2) Spills from a facility that has been notified in writing by a water utility that it is located in a delineated public water supply wellhead protection area as approved by the department under 327 IAC 8-4.1 that are spills of:

(A) hazardous substances or extremely hazardous substances when the amount spilled exceeds one hundred (100) pounds or the reportable quantity, whichever is less;

(B) petroleum when the amount spilled exceeds fifty-five (55) gallons; or

(C) objectionable substances as defined in section 4(11) of this rule.

(3) Spills that damage waters of the state and that are located:

(A) within fifty (50) feet of a known private drinking water well located beyond the facility property boundary; or

(B) within one hundred (100) yards of:

(i) any high quality water classified as an outstanding state resource water listed in 327 IAC 2-1-11(b), 327 IAC 2-1.3-3(d), or 327 IAC 2-1.5-19(b), excluding Lake Michigan;

(ii) any water designated as capable of supporting a salmonid fishery pursuant to 327 IAC 2-1-6(c)(1) or 327 IAC 2-1.5-5(a)(3), except Lake Michigan; or

(iii) any water that is a fish hatchery, fish and wildlife area, nature preserve, or recreational water owned by the department of natural resources or the federal government.

(4) For any spill that does not meet the criteria in subdivisions (1) through (3), the following must be reported:

(A) Spills to surface waters that include one (1) or more of the following:

(i) Hazardous substances or extremely hazardous substances when the amount spilled exceeds one hundred (100) pounds or the reportable quantity, whichever is less.

(ii) Petroleum of such quantity as to cause a sheen upon the waters.

(iii) Objectionable substances as defined in section 4(11) of this rule.

(B) Spills to soil beyond the facility boundary that include one (1) or more of the following:

(i) Hazardous substances or extremely hazardous substances when the amount spilled exceeds one hundred (100) pounds or the reportable quantity, whichever is less.

(ii) Petroleum when the amount spilled exceeds fifty-five (55) gallons.

(iii) Objectionable substances as defined in section 4(11) of this rule.

(C) Spills to soil within the facility boundary that include one (1) or more of the following:

(i) Hazardous substances or extremely hazardous substances when the amount spilled exceeds the reportable quantity.

(ii) Petroleum when the spilled amount exceeds one thousand (1,000) gallons.

(iii) Objectionable substances as defined in section 4(11) of this rule.

(5) Any spill for which a spill response has not been done.

(Water Pollution Control Division; 327 IAC 2-6.1-5; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1732; errata filed Mar 7, 1997, 2:25 p.m.: 20 IR 1738; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; filed Nov 10, 2014, 1:51 p.m.: 20141210-IR-327130290FRA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-6.1-6 Reportable spills; transportation

Authority: IC 13-14-8-7

Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 6. The following spills from a mode of transportation must be reported:

(1) Spills that damage the waters of the state so as to cause death or acute injury or illness to humans or animals.

(2) Spills that damage surface waters.

(3) Spills to soil:

(A) spills of hazardous substances or extremely hazardous substances when the amount spilled exceeds one hundred (100) pounds or the reportable quantity, whichever is less;

(B) spills of petroleum when the amount spilled exceeds fifty-five (55) gallons; or

(C) spills of objectionable substances as defined in section 4(11) of this rule.

(4) Any spill for which a spill response has not been done.

(Water Pollution Control Division; 327 IAC 2-6.1-6; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1733; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-6.1-7 Reportable spills; responsibilities

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 7. Any person who operates, controls, or maintains any mode of transportation or facility from which a spill occurs shall, upon discovery of a reportable spill to the soil or surface waters of the state, do the following:

(1) Contain the spill, if possible, to prevent additional spilled material from entering the waters of the state.

(2) Undertake or cause others to undertake activities needed to accomplish a spill response.

(3) As soon as possible, but within two (2) hours of discovery, communicate a spill report to the Department of Environmental Management, Office of Land Quality, Emergency Response Section: Area Code 1-888-233-7745 for in-state calls (toll free), (317) 233-7745 for out-of-state calls. If new or updated spill report information becomes known that indicates a significant increase in the likelihood of damage to the waters of the state, the responsible party shall notify the department as soon as possible but within two (2) hours of the time the new or updated information becomes known.

(4) Submit to the Indiana Department of Environmental Management, Office of Land Quality, Emergency Response Section (MC 66-30), 2525 N. Shadeland Ave., Suite 100, Indianapolis, IN 46219-1787, a written copy of the spill report if requested in writing by the department.

(5) Except from modes of transportation other than pipelines, exercise due diligence and document attempts to notify the following:

(A) For spills to surface water that cause damage, the nearest affected downstream water user located within ten (10) miles of the spill and in the state of Indiana; and

(B) For spills to soil outside the facility boundary, the affected property owner or owners, operator or operators, or occupant or occupants.

(Water Pollution Control Division; 327 IAC 2-6.1-7; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1733; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; errata filed Feb 6, 2006, 11:15 a.m.: 29 IR 1936; errata filed Oct 20, 2006, 10:08 a.m.: 20061101-IR-327060497ACA; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; errata filed May 27, 2008, 2:06 p.m.: 20080625-IR-327080419ACA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-6.1-8 Emergency spill response actions

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 8. Notwithstanding any other section of this rule, emergency spill response actions take precedence over reporting requirements, and when emergency spill response activities render spill reporting inconsistent with effective response activities, communication of the spill report to the Indiana department of environmental management may be delayed. In situations where the spill report is delayed, the burden of proving the need for the delay shall be upon the responsible person. *(Water Pollution Control Division; 327 IAC 2-6.1-8; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1734; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-6.1-9 Compliance confirmation

Authority: IC 13-14-8-7
Affected: IC 13-11-2; IC 13-18-1; IC 13-18-3; IC 13-18-8; IC 13-18-17

Sec. 9. When spill reporting and response, as provided for in this rule, has occurred, the department shall, upon request, issue a letter confirming compliance with this rule and stating that no further action is required under this rule. *(Water Pollution Control Division; 327 IAC 2-6.1-9; filed Feb 25, 1997, 1:00 p.m.: 20 IR 1734; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

Rule 7. Lake Michigan and Contiguous Harbor Areas *(Repealed)*

(Repealed by Water Pollution Control Division; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1046)

Rule 8. Grand Calumet River and Indiana Harbor Ship Canal *(Repealed)*

(Repealed by Water Pollution Control Division; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1046)

Rule 9. Natural Spawning, Rearing or Imprinting Areas; Migration Routes for Salmonid Fishes *(Repealed)*

(Repealed by Water Pollution Control Division; filed Feb 1, 1990, 4:30 p.m.: 13 IR 1046)

Rule 10. Secondary Containment of Aboveground Storage Tanks Containing Hazardous Materials

327 IAC 2-10-1	Purpose
327 IAC 2-10-2	Applicability
327 IAC 2-10-3	Exclusions
327 IAC 2-10-4	Definitions
327 IAC 2-10-5	Storage inside a building
327 IAC 2-10-6	Storage outside a building
327 IAC 2-10-7	Hazardous materials transfer area
327 IAC 2-10-8	Spill response plan

327 IAC 2-10-1 Purpose

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 1. (a) This rule provides the requirements for secondary containment structures and spill response plans for the purpose of preventing released hazardous materials from entering surface water or ground water at facilities storing liquid hazardous materials in an aboveground storage tank or storage area, or operating a transfer area.

(b) The intent of this rule is to provide for short term containment of discharges.

(c) This rule does not reduce or replace the secondary containment requirements found in other regulations or laws. *(Water Pollution Control Division; 327 IAC 2-10-1; filed May 28, 1999, 11:42 a.m.: 22 IR 3099; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-10-2 Applicability

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 2. (a) The secondary containment requirements of this rule apply to owners or operators of a facility storing liquid hazardous materials in an aboveground storage tank or storage area, or operating a transfer area for liquid hazardous materials as defined in section 4 of this rule, if the aboveground tank, storage area, or transfer area is constructed after the effective date of this rule and includes:

(1) construction activities scheduled after the effective date of this rule; or

(2) construction activities scheduled before the effective date of this rule only when physical construction did not begin within ninety (90) days after the effective date of this rule.

(b) An existing aboveground tank, storage area, or transfer area must be brought into compliance with this rule when replaced or relocated.

(c) The spill response plan requirements of this rule apply to owners or operators of a facility storing liquid hazardous materials in an aboveground storage tank or storage area, or operating a transfer area for liquid hazardous materials as defined in section 4 of this rule. *(Water Pollution Control Division; 327 IAC 2-10-2; filed May 28, 1999, 11:42 a.m.: 22 IR 3099; errata filed*

Jun 8, 1999, 9:23 a.m.: 22 IR 3108; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-10-3 Exclusions

Authority: IC 13-18-5
Affected: IC 13-11-2-160; IC 13-11-2-241; IC 13-23; IC 13-24

Sec. 3. (a) The requirements of this rule do not apply to the following:

(1) An aboveground storage tank, storage areas, or transfer areas for agricultural chemicals regulated by the office of the Indiana state chemist under 355 IAC 2 and 355 IAC 5.

(2) An aboveground storage tank, storage areas, or transfer areas regulated by the Indiana fire prevention and building safety commission pursuant to 675 IAC 22.

(3) An aboveground storage tank or storage areas containing liquids which are solids or gases above sixty (60) degrees Fahrenheit and at atmospheric pressure.

(4) An aboveground storage system or petroleum facility and other structures, equipment, and appurtenances thereto, used or capable of being used to store or transfer oil as defined in and regulated by 40 CFR 112* or petroleum as defined in IC 13-11-2-160.

(5) Underground storage tanks as defined in IC 13-11-2-241.

(6) Hazardous materials that are stored or transferred as products packaged for distribution to, and used by, the public.

(7) Aboveground storage tanks, storage areas, and transfer areas containing hazardous waste regulated under 329 IAC 3.1 and 42 U.S.C. 6991 through 6991(i)*.

(8) Machinery and equipment containing integral operating fluids, provided that these fluids are necessary for the proper operation of the equipment.

(9) Process tanks.

(10) Piping, with the exception of any segment of piping extending from an aboveground storage tank to the point of the first fitting.

(11) Aboveground storage tanks used to store materials other than oils or petroleum products that:

(A) have a capacity of not more than six hundred sixty (660) gallons and are not in a delineated wellhead protection area as approved by the department under 327 IAC 8-4.1; or

(B) are less than two hundred seventy-five (275) gallons if at a facility that has been notified in writing by a water utility that it is located in a delineated public water supply wellhead protection area as approved by the department under 327 IAC 8-4.1.

(12) Storage areas in which the drums and portable containers are considered empty of liquid hazardous materials if the standards set forth in 40 CFR 261.7* are met.

(b) Aboveground storage tanks, storage areas, and transfer areas constructed on or before the effective date of this rule are not subject to the requirements of sections 5 through 7 of this rule, except as provided in section 2 of this rule.

*These documents are incorporated by reference. Copies of these documents may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-10-3; filed May 28, 1999, 11:42 a.m.: 22 IR 3099; errata filed Jun 8, 1999, 9:23 a.m.: 22 IR 3108; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; errata filed Feb 6, 2006, 11:15 a.m.: 29 IR 1936; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-10-4 Definitions

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 4. For the purposes of this rule, the following terms are defined as follows:
(1) "Aboveground storage tank" means a stationary device designed to structurally support, enclose, and contain an accumulation of liquid hazardous materials on or above the surface of the ground, and which is constructed of nonearthen materials, such as concrete, metal, or plastic.
(2) "Board" has the meaning set forth in IC 13-11-2-17(d).
(3) "Commissioner" has the meaning set forth in IC 13-11-2-35(a).
(4) "Department" has the meaning set forth in IC 13-11-2-51.
(5) "Discharge" means the leaking, leaching, escaping, or disposing from an aboveground storage tank, storage area, or transfer area into secondary containment.
(6) "Drum" means a nonstationary container that holds between ten (10) and one hundred (100) gallons of a liquid hazardous material.
(7) "Facility" has the meaning set forth in IC 13-11-2-77(c).
(8) "Hazardous material" has the meaning set forth in IC 13-11-2-96(a) or means a mixture that contains at least one (1) of the substances specified in IC 13-11-2-96(a).
(9) "Liquid" means a nongaseous state of matter that, at sixty (60) degrees Fahrenheit and atmospheric pressure, will take the shape of its container immediately upon being placed in such container.
(10) "Mixture" means a combination of materials that contains at least one (1) of the substances defined as a hazardous material under this rule in a quantity greater than or equal to ten percent (10%) by volume.
(11) "Operator" means a person who is responsible for overall operation of a facility, including a private contractor conducting operational activities at a facility.
(12) "Owner" means a person who holds title to, controls, or owns an interest in a facility with an aboveground storage tank, storage area, or transfer area. "Owner" does not include a unit of federal, state, or local government that has acquired ownership or control involuntarily through bankruptcy, tax delinquency, abandonment, or other circumstances in which the governmental unit involuntarily acquired title because of the unit's function as sovereign, except if the unit causes or contributes to the release or threatened release of a hazardous material.
(13) " Person" has the meaning set forth in IC 13-11-2-158(a).
(14) "Petroleum facility" has the meaning set forth in IC 13-11-2-161.
(15) "Portable tank" means a nonstationary container that holds one hundred (100) gallons to one thousand (1,000) gallons of a liquid hazardous material.
(16) "Process tank" means a vessel or other container used for the mixing or batching of chemicals, feeds, wastewater, or other components, or for the preparation of one (1) or more components, leading to the production of a desired product. The term includes all attached piping and other fixtures necessary for the intended operation of the vessel or container.
(17) "Secondary containment" has the meaning set forth in IC 13-11-2-197.
(18) "Spill" means any unexpected, unintended, abnormal, or unapproved dumping, leakage, drainage, seepage, discharge, or other loss of petroleum, hazardous substances, extremely hazardous substances, or objectionable substances. The term does not include releases to impermeable surfaces when the substance does not migrate off the surface or penetrate the surface and enter the soil.
(19) "Stationary" means designed and constructed to be:
    (A) immobile;
    (B) with fixed piping;
    (C) permanently attached to a surface; or
    (D) not designed to be moved when filled.
(20) "Storage area" means any discrete area at a facility in which:
    (A) drums holding, in aggregate, one thousand (1,000) gallons or more; or
    (B) portable tanks holding, in aggregate, two thousand (2,000) gallons or more;
of liquid hazardous materials which are stored within twenty-five (25) feet of each other for more than fifteen (15) days.
(21) "Structure", for the purposes of this rule, means part of a structure or system that prevents or impedes a spill of a hazardous material from entering waters of the state.
(22) "Transfer area" means a dedicated outside loading or unloading area used for more than fifteen (15) days in a calendar year for the transfer of liquid hazardous materials between a railcar or semitrailer tanker and an aboveground storage tank.

(23) "Water pollution control laws" has the meaning set forth in IC 13-11-2-260.

(24) "Waters" has the meaning set forth in IC 13-11-2-265.

(Water Pollution Control Division; 327 IAC 2-10-4; filed May 28, 1999, 11:42 a.m.: 22 IR 3100; errata filed Jun 8, 1999, 9:23 a.m.: 22 IR 3108; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)

327 IAC 2-10-5 Storage inside a building

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 5. Aboveground storage tanks or storage areas containing hazardous materials that are located inside a building must have a floor compatible with the material being stored and a system to prevent or impede a spill from entering waters of the state. *(Water Pollution Control Division; 327 IAC 2-10-5; filed May 28, 1999, 11:42 a.m.: 22 IR 3101; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-10-6 Storage outside a building

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 6. (a) Aboveground storage tanks or storage areas containing hazardous materials that are located outside a building must have secondary containment.

(b) Secondary containment must be designed and constructed consistent with current engineering standards with materials that are compatible with the hazardous materials being stored and which will prevent a release from entering waters of the state for a seventy-two (72) hour period. The design requirements of secondary containment must be met in one (1) of the following ways:

(1) A secondary containment area with dikes, berms, retaining walls, or trenches, and a floor that must cover the entire area within the dikes, berms, retaining walls, or trenches.

(2) A tank designed and built with an outer shell and an interstitial space between the tank wall and the outer shell that allows for monitoring.

(3) Diversionary systems that direct the discharges to treatment or temporary holding areas.

(4) Other methods approved by the commissioner that have been demonstrated to be equally protective of human health and the environment.

(c) A secondary containment area must have a volume, considering displacement, to contain at least one hundred ten percent (110%) of the volume of the largest aboveground tank, or portable tank in the secondary containment area, or the volume of the largest aboveground tank, or portable tank plus enough freeboard to contain precipitation generated by a twenty-five (25) year/twenty-four (24) hour rain event. A tank designed and built with an outer shell for secondary containment is an acceptable alternative. At a minimum, secondary containment for storage areas holding only drums must be capable of holding or diverting one hundred twenty (120) gallons.

(d) A secondary containment area must be properly maintained to protect the integrity and capacity of the secondary containment.

(e) Liquid that collects within the secondary containment area must be removed within seventy-two (72) hours of its discovery in order to maintain the available capacity of the secondary containment area at one hundred percent (100%) of the largest aboveground tank, or portable tank in the secondary containment area. Ice must be removed as soon as weather permits. Liquid that collects within the secondary containment area must meet all applicable requirements of this article if discharged to waters of the state. *(Water Pollution Control Division; 327 IAC 2-10-6; filed May 28, 1999, 11:42 a.m.: 22 IR 3101; errata filed Jun 8, 1999, 9:23 a.m.: 22 IR 3108; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-10-7 Hazardous materials transfer area

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 7. (a) A hazardous materials transfer area must be designed and constructed consistent with current engineering standards with materials that are compatible with the hazardous materials being stored, and that will prevent a release from entering waters of the state for a seventy-two (72) hour period during loading and unloading of a tank as follows:

(1) A hazardous materials transfer area must:

(A) contain a minimum of the volume of the hazardous material that could be pumped during one (1) minute of transfer operation; or

(B) direct the minimum volume of the hazardous material that could be pumped during one (1) minute of transfer operation to a diversionary system that treats or temporarily stores the hazardous material.

(b) The hazardous materials transfer area must be properly maintained to protect the integrity and capacity of the transfer area.

(c) Liquid that collects within the hazardous materials transfer area must be removed within seventy-two (72) hours of its discovery in order to maintain the available capacity of the secondary containment area at one hundred percent (100%). Ice must be removed as soon as weather permits. Liquid that collects within the hazardous materials transfer area must meet all applicable requirements of this article if discharged to waters of the state. *(Water Pollution Control Division; 327 IAC 2-10-7; filed May 28, 1999, 11:42 a.m.: 22 IR 3101; errata filed Jun 8, 1999, 9:23 a.m.: 22 IR 3108; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

327 IAC 2-10-8 Spill response plan

Authority: IC 13-18-5
Affected: IC 13-11-2

Sec. 8. (a) The owner or operator of each facility with an aboveground storage tank, storage area, or transfer area subject to this rule must be prepared to prevent and control pollution that could result from an aboveground storage tank, storage area, or transfer area discharge or spill.

(b) Within twelve (12) months of the effective date of this rule, the owner or operator of each facility with an aboveground storage tank, storage area, or transfer area subject to this rule shall prepare a response plan for the facility. The response plan must be available for inspection at the facility and, if requested in writing by the department, submitted to the Indiana Department of Environmental Management, Office of Land Quality, 100 North Senate Avenue, Indianapolis, Indiana 46204, Attention: Emergency Response. The response plan must provide, at a minimum, the following information:

(1) The name and telephone number of the contact person responsible for the facility.

(2) A description of the procedures that will be taken to provide an immediate response to a discharge or spill, including the identification of facility response personnel who will implement a response action.

(3) The identification of facility personnel or outside contractor who are *[sic., is]* capable of cleaning up the discharge or spill.

(4) A method for determining the location of storm sewers that reasonably may be expected to be affected by a spill.

(5) The telephone numbers of the following:

(A) The facility emergency response personnel or outside contractor.

(B) The local fire department.

(C) The Indiana department of environmental management at 1-888-233-7745 (in-state, toll free) or 317-233-7745.

(D) The community emergency coordinator designated by the local emergency planning committee.

(E) The National Response Center at 1-800-424-8802.

(c) The response plan may be a part of an existing contingency, emergency response plan, or other spill plan for the facility provided that all elements in subsection (b) are included in the plan.

(d) The owner or operator shall review and update as necessary the information required in this section at least once every three (3) years or within sixty (60) days of a significant change in the information to be contained in the plan, whichever date occurs

first. *(Water Pollution Control Division; 327 IAC 2-10-8; filed May 28, 1999, 11:42 a.m.: 22 IR 3101; readopted filed Jan 10, 2001, 3:23 p.m.: 24 IR 1518; errata filed Feb 6, 2006, 11:15 a.m.: 29 IR 1936; readopted filed Nov 21, 2007, 1:16 p.m.: 20071219-IR-327070553BFA; readopted filed Jul 29, 2013, 9:21 a.m.: 20130828-IR-327130176BFA; readopted filed Jun 14, 2019, 1:59 p.m.: 20190710-IR-327190246BFA)*

Rule 11. Ground Water Quality Standards

327 IAC 2-11-1	Goal
327 IAC 2-11-2	Applicability
327 IAC 2-11-3	Definitions
327 IAC 2-11-4	Ground water classification plan
327 IAC 2-11-5	Criteria for all ground water
327 IAC 2-11-6	Criteria for drinking water class ground water
327 IAC 2-11-7	Criteria for limited class ground water
327 IAC 2-11-8	Criteria for impaired drinking water class ground water
327 IAC 2-11-9	Ground water management zones

327 IAC 2-11-1 Goal

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 13-18-4; IC 13-18-17

Sec. 1. The goal of this rule is to maintain and protect the quality of Indiana's ground water and ensure that exposure to the ground water will not pose a threat to human health, any natural resource, or the environment. *(Water Pollution Control Division; 327 IAC 2-11-1; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1876; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-2 Applicability

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 4-22-2; IC 13-18-4; IC 13-18-17; IC 13-22; IC 13-23; IC 13-24; IC 13-25-4; IC 13-25-5-8.5; IC 13-30

Sec. 2. (a) The following agencies shall adopt rules under IC 4-22-2 to apply the standards established in this rule to the facilities, practices, and activities they regulate:

(1) The department of environmental management.
(2) The department of natural resources.
(3) The Indiana state department of health.
(4) The state chemist of the state of Indiana.
(5) The office of the state fire marshal.

(b) An agency shall use its regulatory authority when adopting rules to ensure the criteria established in sections 5, 6, 7, and 8 of this rule will not be exceeded in ground water at or beyond the boundary of a ground water management zone established according to section 9 of this rule. When adopting rules, an agency shall, to the extent consistent with its regulatory authority, ensure that facilities, practices, and activities are designed and managed to eliminate or minimize, to the extent feasible, potential adverse impacts to the existing ground water quality by applying preventative action levels, design standards, a monitoring framework, or other regulatory methods. An agency may consider technological and economic reasonableness and other appropriate factors in determining a feasible approach.

(c) The standards established in this rule shall not limit nor expand the authority of an agency.

(d) The standards established in this rule shall allow the following to be consistent with the remediation objectives set forth in IC 13-25-5-8.5:

(1) Ground water remediations conducted under:
  (A) IC 13-22;
  (B) IC 13-23; or

(C) IC 13-25-5.

(2) Ground water remediations that:

(A) are not emergency or nontime-critical activities; and

(B) are conducted under:

(i) IC 13-24; or

(ii) IC 13-25-4.

(3) Ground water remediations conducted under any other provision of IC 13, as appropriate.

(e) No person shall cause the ground water in a drinking water supply well to have a contaminant concentration that creates one (1) or more of the following:

(1) An exceedance of the numeric criteria established for drinking water class ground water in Tables *[section]* 6(a)(1) and 6(a)(2) of this rule.

(2) A level sufficient to be acutely or chronically toxic, carcinogenic, mutagenic, teratogenic, or otherwise injurious to human health based on best scientific information.

(3) An exceedance of one (1) or more of the following indicator levels:

(A) Chloride at two hundred fifty (250) milligrams per liter.

(B) Sulfate at two hundred fifty (250) milligrams per liter.

(C) Total dissolved solids at five hundred (500) milligrams per liter.

(D) Total coliform bacteria at nondetect.

(4) Renders the well unuseable for normal domestic use.

(f) No person shall cause the ground water in a nondrinking water supply well, including an industrial, commercial, or agricultural supply well, to have a contaminant concentration that, based on best scientific information, renders the well unuseable for its current use.

(g) The criteria established in subsections (e) and (f) are immediately enforceable on the effective date of this rule under IC 13-30 to protect ground water quality in water supply wells.

(h) Except as provided in subsection (g), the criteria established in this rule shall not be enforceable under IC 13-30 until subsequent rules are adopted to apply the standards established in this rule pursuant to subsections (a) and (b). *(Water Pollution Control Division; 327 IAC 2-11-2; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1876; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-3 Definitions

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 13-11-2-71; IC 13-18-4; IC 13-18-17; IC 14-34

Sec. 3. The following definitions apply throughout this rule:

(1) "Agency" means one (1) or more of the following:

(A) The department of environmental management.

(B) The department of natural resources.

(C) The Indiana state department of health.

(D) The state chemist of the state of Indiana.

(E) The office of the state fire marshal.

(2) "Commissioner" means the commissioner of the department of environmental management.

(3) "Contaminant" means any solid, semisolid, liquid, or gaseous matter, or any odor, radioactive material, pollutant as defined by the federal Water Pollution Control Act (33 U.S.C. 1362(6))*, hazardous waste as defined in the federal Solid Waste Disposal Act (42 U.S.C. 6903(5))*, any constituent of a hazardous waste, or any combination of the items described in this subdivision, from whatever source, that:

(A) is injurious to human health, plant or animal life, or property;

(B) interferes unreasonably with the enjoyment of life or property; or

(C) otherwise violates:

(i) environmental management laws; or

(ii) rules adopted under environmental management laws.

(4) "Criterion" means a numeric value or a narrative statement established to maintain and protect the quality of ground water.

(5) "Drinking water well" means a bored, drilled, or driven shaft or a dug hole that meets the following:

(A) Supplies ground water for human consumption.

(B) Has a depth greater than its largest surface dimension.

(C) Is not permanently abandoned in accordance with 312 IAC 13-10-2.

(6) "Environmental management laws" has the meaning set forth in IC 13-11-2-71.

(7) "Ground water" means water located below the ground surface in interconnected voids and pore spaces in the zone of saturation.

(8) "Ground water management zone" means a three (3) dimensional region of ground water around a potential or existing contaminant source, where a contaminant is or was managed to prevent or mitigate deterioration of ground water quality so that the criteria established in this rule are met at and beyond the boundary of the region.

(9) "Naturally occurring concentration" means a constituent concentration in ground water that is not attributable to human activity.

(10) "Preventative action level" means a measured concentration of a chemical constituent that is:

(A) established on a site-specific or program-specific basis;

(B) used to evaluate sample analysis data from ground water monitoring systems;

(C) statistically measurable using standard laboratory analyses; and

(D) used to determine if further action is necessary to ensure the standards established in this rule are not violated.

(11) "Property boundary" means the edge of a contiguous parcel of land owned or leased by a common owner or lessee. Contiguous land includes land separated by a public right-of-way, if that land would otherwise be contiguous.

(12) "Standards", when used without qualification, means:

(A) the numeric and narrative criteria;

(B) the classification plan; and

(C) the method of determining where the criteria must apply;

established by this rule.

(13) "Surface water quality standards" means the water quality standards established in 327 IAC 2-1 and 327 IAC 2-1.5.

*Copies of these publications may be obtained from the Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204. *(Water Pollution Control Division; 327 IAC 2-11-3; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1877; errata filed Feb 5, 2002, 1:52 p.m.: 25 IR 1906; errata filed Feb 6, 2006, 11:15 a.m.: 29 IR 1936; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-4 Ground water classification plan

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 4-22-2; IC 13-11-2-82; IC 13-18-4; IC 13-18-17; IC 14-34-4-7; IC 14-34-6; IC 14-37

Sec. 4. (a) All ground water shall be classified, under rules adopted under IC 4-22-2 that apply the standards established in this rule, to determine the appropriate narrative and numeric criteria and level of protection to be applied to ground water.

(b) Ground water shall be classified as drinking water class ground water unless it is classified as:

(1) limited class ground water under subsection (c), (d), (e), or (f); or

(2) impaired drinking water class ground water under subsection (g) or (h).

(c) Ground water shall be limited if it is in accordance with one (1) of the following conditions:

(1) Contains hydrocarbons that are producible considering their quantity and location, as has been demonstrated to an agency.

(2) Located in the injection zone of or within the physical influence of a Class I, II, or III injection well operating under a valid underground injection control permit issued under the Safe Drinking Water Act (42 U.S.C. 300) and its implementing

regulations.

(3) Located in a zone within the physical influence of a gas storage well operating under a valid permit issued under IC 14-37.

(d) Ground water shall be limited if it has constituent concentrations that are the result of natural processes acting on post mine hydrology and is located within one (1) of the following:

(1) A coal mine area that:

(A) has satisfied the requirements of IC 14-34 and is fully released from the performance bond required by IC 14-34-6; and

(B) is within a zone defined by the coal mine permit as it was formerly approved and regulated by the department of natural resources unless it is within a demonstrated zone of influence of a coal mine area as determined by the commissioner in consultation with the department of natural resources.

(2) The zone of influence, as determined by the commissioner in cooperation with the department of natural resources, of a coal mine area mined prior to August 4, 1977.

(e) Ground water shall be limited if it is located within an agricultural crop root zone. A limited classification under this subsection shall extend no deeper than ten (10) feet below the land surface.

(f) The commissioner may classify ground water as limited class ground water if a person requesting classification demonstrates, in a written submission, that the following conditions are met:

(1) The ground water requested to be classified is as follows:

(A) Described in three (3) dimensions.

(B) Limited in one (1) of the following ways:

(i) The potential ground water yield is less than two hundred (200) gallons per day.

(ii) The naturally occurring total dissolved solids concentration is greater than or equal to ten thousand (10,000) milligrams per liter.

(C) Not currently used nor reasonably expected to be used for drinking water in the future, including the combined use of multiple low yield water bearing zones.

(D) Not in a state-approved wellhead protection area established pursuant to 327 IAC 8-4.1.

(2) Notification, using certified mail, was given, at least forty-five (45) days prior to the submission of the request, to the following:

(A) An owner and, if one exists, a lessee of property within or adjacent to the land area above the ground water requested to be classified.

(B) Any person reasonably expected to be aggrieved or adversely affected by the classification.

(C) City and county health officers having jurisdiction within the land area above the ground water requested to be classified.

(g) Ground water is impaired drinking water when the following conditions are met:

(1) The ground water is not in a state-approved wellhead protection area established pursuant to 327 IAC 8-4.1.

(2) The ground water has one (1) or more contaminant concentrations above the numeric criteria established in section 6(a) or 6(d) of this rule.

(3) The commissioner has approved a ground water remediation, closure, cleanup, or corrective action plan that describes the nature and extent of contaminants exceeding the criteria established in section 6(a) or 6(d), and one (1) of the following applies:

(A) A restrictive covenant has been placed on the property or properties overlying the ground water, and it prohibits the use of the untreated ground water.

(B) An alternate institutional control, such as a local ordinance, prohibits the use of the untreated ground water as a source of residential drinking water, and the commissioner has approved the alternate institutional control as an effective means of preventing exposure to the untreated ground water.

(h) The commissioner may classify ground water as impaired drinking water class ground water if it has one (1) or more contaminant concentrations above the numeric criteria established in section 6(a) or 6(d) of this rule and the person requesting classification demonstrates to the commissioner's satisfaction, in a written submission, that the following conditions are met:

(1) The ground water requested to be classified is as follows:

(A) Described, to the commissioner's satisfaction, in a hydrogeologic report that must, at a minimum, contain the

following:

(i) A three (3) dimensional description of ground water flow and direction.

(ii) A description that includes the concentration of each contaminant that exceeds the criteria established in section 6(a) or 6(d) of this rule.

(iii) A map indicating the property or properties overlying the ground water requested to be classified.

(B) Not currently used nor reasonably expected to be used for drinking water in the future unless the following apply:

(i) The ground water is treated to reduce the contaminant concentration to less than the numeric criterion established in section 6(a) or 6(d) of this rule.

(ii) A mechanism is in place to prevent untreated ground water from being used as drinking water for as long as a contaminant concentration is above the numeric criterion established in section 6(a) or 6(d) of this rule.

(C) Not in a state-approved wellhead protection area established pursuant to 327 IAC 8-4.1.

(2) Notification, using certified mail, was given, at least forty-five (45) days prior to the submission of the request, to the following:

(A) An owner and, if one exists, a lessee of property within or adjacent to the land area above the ground water requested to be classified.

(B) The following city and county positions having jurisdiction within the land area above the ground water requested to be classified:

(i) Government officials.

(ii) Planners.

(iii) Health officers.

(C) Any person reasonably expected to be aggrieved or adversely affected by the classification.

(i) The commissioner may deny a request to classify ground water as impaired drinking water class ground water if the exceedance of the numeric criterion established in section 6(a) or 6(d) of this rule was caused by an unlawful action of the person seeking the classification. Notwithstanding the impaired drinking water class ground water classification, a facility, practice, or activity or a ground water contamination assessment or remediation located within the land area above the ground water classified as impaired drinking water class ground water must comply with all otherwise applicable laws, rules, and standards.

(j) The commissioner may reevaluate and change a ground water classification determination upon the receipt of new or additional information pertaining to a classification requirement. *(Water Pollution Control Division; 327 IAC 2-11-4; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1877; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-5 Criteria for all ground water

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 13-18-4; IC 13-18-17

Sec. 5. Each class of ground water described in section 4 of this rule shall meet the following protective criteria:

(1) Ground water quality shall be maintained, at a minimum, to protect the current and reasonably expected future use of the ground water.

(2) Ground water shall be maintained and protected to ensure that a contaminant concentration attributable to human activity does not increase in a drinking water well.

(3) For waters of the state, surface water quality standards shall be met in the surface water at the ground water-surface water interface.

(Water Pollution Control Division; 327 IAC 2-11-5; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1879; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)

327 IAC 2-11-6 Criteria for drinking water class ground water

Authority: IC 13-18
Affected: IC 4-22-2; IC 13-14-9; IC 13-18-4; IC 13-18-17

Sec. 6. (a) The following numeric criteria are health protective goals for untreated ground water used as drinking water and are the maximum permissible level of a contaminant in drinking water class ground water:

(1) The following are the numeric criteria for select inorganic contaminants:

Contaminant	Criterion (mg/l unless noted)[1]
Antimony	0.006
Arsenic	0.010
Asbestos	7 MFL[2]
Barium	2
Beryllium	0.004
Cadmium	0.005
Chromium (total)	0.1
Combined beta/photon emitters	4 mrem/yr[3]
Cyanide (free)	0.2
Fluoride	4
Gross alpha particle activity (including radium 226 but excluding radon and uranium)	15 pCi/L[4]
Lead	0.015
Mercury (inorganic)	0.002
Nitrate (as N)	10
Nitrite (as N)	1
Radium 226 and 228 (combined)	5 pCi/L
Selenium	0.05
Thallium	0.002

Notes:

[1]mg/l is milligrams per liter.

[2]MFL is million fibers per liter greater than 10 micrometers in length.

[3]mrem/yr is millirems per year.

[4]pCi/L is picocuries per liter.

(2) The following are the numeric criteria for select organic contaminants:

Table 6(a)(2)

Numeric Criteria for Organic Contaminants in Drinking Water Class Ground Water

Chemical Abstract Registry Numbers	Contaminant	Criterion (mg/l unless noted)
15972-60-8	Alachlor	0.002
1912-24-9	Atrazine	0.003
71-43-2	Benzene	0.005
50-32-8	Benzo(a)pyrene	0.0002
1563-66-2	Carbofuran	0.04
56-23-5	Carbon tetrachloride	0.005
57-74-9	Chlordane	0.002
94-75-7	2,4-D	0.07
75-99-0	Dalapon	0.2
103-23-1	Di(2-ethylhexyl)adipate	0.4
96-12-8	Dibromochloropropane (DBCP)	0.0002
95-50-1	Dichlorobenzene, 1,2-	0.6
106-46-7	Dichlorobenzene, 1,4-	0.075
107-06-2	Dichloroethane, 1,2-	0.005

75-35-4	Dichloroethylene, 1,1-	0.007
156-59-2	Dichloroethylene, cis-1,2-	0.07
156-60-5	Dichloroethylene, trans-1,2-	0.1
75-09-2	Dichloromethane or methylene chloride	0.005
78-87-5	Dichloropropane, 1,2-	0.005
117-81-7	Di(2-ethylhexyl)phthalate	0.006
88-85-7	Dinoseb	0.007
85-00-7	Diquat	0.02
145-73-3	Endothall	0.1
72-20-8	Endrin	0.002
100-41-4	Ethylbenzene	0.7
106-93-4	Ethylene dibromide (EDB)	0.00005
1071-83-6	Glyphosate	0.7
76-44-8	Heptachlor	0.0004
1024-57-3	Heptachlor epoxide	0.0002
118-74-1	Hexachlorobenzene	0.001
77-47-4	Hexachlorocyclopentadiene	0.05
58-89-9	Lindane (gamma-BHC)	0.0002
72-43-5	Methoxychlor	0.04
108-90-7	Monochlorobenzene	0.1
23135-22-0	Oxamyl (vydate)	0.2
87-89-5	Pentachlorophenol	0.001
1918-02-1	Picloram	0.5
1336-36-3	Polychlorinated biphenyls (PCBs)	0.0005
122-34-9	Simazine	0.004
100-42-5	Styrene	0.1
1746-01-6	2,3,7,8-TCDD (Dioxin)	0.00000003
127-18-4	Tetrachloroethylene	0.005
108-88-3	Toluene	1
8001-35-2	Toxaphene	0.003
93-72-1	2,4,5-TP (Silvex)	0.05
120-82-1	Trichlorobenzene, 1,2,4-	0.07
71-55-6	Trichloroethane, 1,1,1-	0.2
79-00-5	Trichloroethane, 1,1,2-	0.005
79-01-6	Trichloroethylene	0.005
75-01-4	Vinyl chloride	0.002
1330-20-7	Xylenes (total)	10

(3) A drinking water class numeric criterion may be added to the criteria established in this subsection if adopted according to IC 4-22-2 and IC 13-14-9.

(b) An agency shall determine if further action is necessary to comply with the narrative criteria established in section 5 of this rule if the following indicator levels are exceeded in drinking water class ground water:

(1) Chloride at two hundred fifty (250) milligrams per liter.

(2) Sulfate at two hundred fifty (250) milligrams per liter.

(3) Total dissolved solids at five hundred (500) milligrams per liter.

(4) Total coliform bacteria at nondetect.

(c) If the commissioner determines that a site-specific numeric criterion for a contaminant without a drinking water class

numeric criterion established in subsection (a) is necessary to protect human health, any natural resource, or the environment, a risk analysis shall be used to establish a numeric criterion for that contaminant and must:

(1) receive approval from the commissioner; and

(2) be based upon appropriate toxicological data.

(d) The naturally occurring concentration of a contaminant in drinking water class ground water shall be the numeric criterion if that contaminant occurs at a concentration greater than the drinking water numeric criterion established in subsection (a) or (c) or an indicator level established in subsection (b).

(e) If drinking water class ground water at a facility, practice, or activity is determined to have one (1) or more contaminant concentrations above the numeric criteria established in this section that are not attributable to the facility, practice, or activity under consideration, an agency shall manage the facility, practice, or activity or implement programs such that:

(1) the facility, practice, or activity causes no further increase in the concentration of the contaminant determined to be above the numeric criterion established in this section; and

(2) any design standard or management requirements that apply to the facility, practice, or activity are at least as stringent as the design standard and management requirements that would be applied to a facility, practice, or activity where ground water does not have one (1) or more contaminant concentrations above the numeric criteria established in this section.

(f) The commissioner may, for a ground water contamination assessment or remediation at a facility, practice, or activity under the jurisdiction of the department of environmental management, allow an appropriate site-specific, risk-based numeric criterion different from the numeric criterion established in subsection (a) or (d) to be applied to drinking water class ground water within the boundary of the ground water management zone established according to section 9 of this rule. *(Water Pollution Control Division; 327 IAC 2-11-6; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1879; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; filed Nov 24, 2008, 12:30 p.m.: 20081217-IR-327060280FRA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-7 Criteria for limited class ground water

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 13-18-4; IC 13-18-17

Sec. 7. (a) Limited class ground water, classified according to section 4(c) of this rule, must meet the narrative criteria established in section 5 of this rule.

(b) Limited class ground water, classified according to section 4(d) of this rule, must meet the following requirements:

(1) A contaminant attributable to activities associated with coal mining, not including the disposal of coal combustion waste at a surface coal mine under IC 14-34, must meet the greater of the following:

(A) The existing contaminant concentration.

(B) The numeric criterion established in section 6(a) of this rule.

(2) A contaminant not attributable to activities associated with coal mining, including the disposal of coal combustion waste at a surface coal mine under IC 14-34, if the contaminant concentration exceeds the concentration attributable to a coal mining activity, must meet the numeric criterion established in section 6(a) or 6(d) of this rule.

(c) Limited class ground water, classified according to section 4(e) of this rule, must meet the following requirements:

(1) A contaminant attributable to pesticides, crop nutrients, or soil amendments that have been applied for agricultural purposes and used in a manner consistent with all applicable regulatory requirements shall meet the greater of the following:

(A) The existing contaminant concentration.

(B) The numeric criterion established in section 6(a) of this rule.

(2) A contaminant not attributable to pesticides, crop nutrients, or soil amendments that have been applied for agricultural purposes and used in a manner consistent with all applicable regulatory requirements must meet the numeric criterion established in section 6(a) or 6(d) of this rule.

(d) Limited class ground water, classified according to section 4(f) of this rule, must meet the following requirements:

(1) A contaminant with a drinking water class numeric criterion established in section 6(a) of this rule must have a numeric criterion of ten (10) times the drinking water class numeric criterion established in section 6(a) of this rule.

(2) If the commissioner determines that a numeric criterion for a contaminant without a drinking water class numeric criterion established in subsection 6(a) of this rule is necessary to protect human health, any natural resource, or the

environment, a risk analysis shall be used to establish a numeric criterion for that contaminant and must:

(A) receive approval from the commissioner; and

(B) be based on appropriate toxicological data.

(e) The naturally occurring concentration of a contaminant in limited class ground water shall be the numeric criterion if that contaminant occurs at a concentration greater than the limited numeric criterion established in subsection (b), (c), or (d).

(f) If limited class ground water at a facility, practice, or activity is determined to have one (1) or more contaminant concentrations above the numeric criteria established in this section that are not attributable to the facility, practice, or activity under consideration, an agency shall manage the facility, practice, or activity or implement programs such that:

(1) the facility, practice, or activity causes no further increase in the concentration of the contaminant determined to be above the numeric criterion established in this section; and

(2) any design standard or management requirements that apply to the facility, practice, or activity are at least as stringent as the design standard and management requirements that would be applied to a facility, practice, or activity where ground water does not have one (1) or more contaminant concentrations above the numeric criteria established in this section.

(g) The commissioner may allow an appropriate site specific, risk based numeric criterion different from the numeric criterion established in this section to be applied to limited class ground water at and beyond the boundary of the ground water management zone established according to section 9 of this rule. *(Water Pollution Control Division; 327 IAC 2-11-7; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1880; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

327 IAC 2-11-8 Criteria for impaired drinking water class ground water

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 13-18-4; IC 13-18-17

Sec. 8. Impaired drinking water class ground water, classified according to section 4(g) or 4(h) of this rule, shall meet the following requirements:

(1) A contaminant not identified in the classification as being in excess of the numeric criterion of section 6(a) or 6(d) of this rule shall meet the numeric criterion established in section 6(a) or 6(d) of this rule.

(2) A contaminant identified in the classification as being in excess of the numeric criterion established in section 6(a) or 6(d) of this rule shall meet the existing contaminant concentration if it is greater than the numeric criterion established in section 6(a) or 6(d) of this rule and results from a source of contamination that:

(A) was from a previously unregulated facility, practice, or activity;

(B) was discovered after those who caused the contamination abandoned the site and those who caused the contamination cannot be found; or

(C) cannot be identified due to the nature of the specific constituent.

(3) Any design standard or management requirements that apply to a facility, practice, or activity with impaired drinking water class ground water must be at least as stringent as the design standard and management requirements that would be applied to a facility, practice, or activity with drinking water class ground water.

(4) The commissioner may allow an appropriate site specific, risk based numeric criterion different from the numeric criterion established in this section to be applied to impaired drinking water class ground water at and beyond the boundary of the ground water management zone established according to section 9 of this rule.

(Water Pollution Control Division; 327 IAC 2-11-8; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1881; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)

327 IAC 2-11-9 Ground water management zones

Authority: IC 13-18-3-1; IC 13-18-4-1; IC 13-18-4-3; IC 13-18-4-4; IC 13-18-4-5; IC 13-18-17-5
Affected: IC 4-22-2; IC 13-18-4; IC 13-18-17

Sec. 9. (a) The criteria established in sections 5, 6, 7, and 8 of this rule must be met at and beyond the boundary of the ground water management zone.

(b) An agency, having jurisdiction over a facility, practice, or activity that is subject to the criteria of this rule, may establish an appropriate program specific or site specific three (3) dimensional ground water management zone and shall determine its boundary location and duration considering the following factors:

(1) Regulatory program requirements.
(2) Design standards.
(3) Monitoring frameworks.
(4) Hydrogeologic conditions.
(5) Risks of human exposure.
(6) Impacts to any natural resource and the environment.
(7) Property controls.
(8) Physical and chemical properties of potential contaminants.

(c) An agency, having jurisdiction over a ground water contamination assessment or remediation that is subject to the criteria of this rule, may establish an appropriate program specific or site specific three (3) dimensional ground water management zone considering the following factors:

(1) Regulatory program requirements.
(2) Type and amount of a contaminant present.
(3) Monitoring frameworks.
(4) Hydrogeologic conditions.
(5) Risks of human exposure.
(6) Impacts to any natural resource and the environment.
(7) Property controls.
(8) Expected future use of the site.
(9) Physical and chemical properties of existing contaminants.

(d) Rules adopted by an agency under IC 4-22-2 to apply the standards in this rule must include a default three (3) dimensional ground water management zone that shall apply if an agency having jurisdiction over a facility, practice, activity, or a ground water contamination assessment or remediation does not establish a program specific or site specific ground water management zone under subsection (b) or (c). The boundary of the default ground water management zone shall be located in accordance with one (1) of the following:

(1) At each drinking water well that is:
    (A) within three hundred (300) feet from the edge of a potential or existing contaminant source when the property boundary is greater than three hundred (300) feet from the edge of a potential or existing contaminant source; or
    (B) within the property boundary when the property boundary is less than three hundred (300) feet from the edge of a potential or existing contaminant source.
(2) The property boundary, when the property boundary is less than three hundred (300) feet from the edge of a potential or existing contaminant source, and there is no drinking water well within the property boundary.
(3) Three hundred (300) feet from the edge of a potential or existing contaminant source when the property boundary is greater than three hundred (300) feet from the edge of a potential or existing contaminant source and there is no drinking water well within three hundred (300) feet from the edge of a potential or existing contaminant source.

(e) If overlapping ground water management zone boundaries are present at a facility, practice, activity, or ground water contamination assessment or remediation, then the agency or agencies with jurisdiction may combine them. *(Water Pollution Control Division; 327 IAC 2-11-9; filed Feb 4, 2002, 11:00 a.m.: 25 IR 1882; readopted filed Jun 4, 2008, 11:07 a.m.: 20080702-IR-327080207BFA; readopted filed Jul 30, 2014, 4:04 p.m.: 20140827-IR-327140189BFA; readopted filed May 27, 2020, 11:52 a.m.: 20200624-IR-327200186BFA)*

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