Bruce Carter Associates, L.L.C.
ENVIRONMENTAL CONSULTANTS
AIR • WATER • SOLID WASTE • OSHA • REMEDIATION SERVICES

August 15, 2014

Ms. Danise Alano-Martin, EDFP
Economic & Sustainable Development Director
City of Bloomington
401 N. Morton St. / PO Box 100
Bloomington, Indiana 47402

RE: Phase II Environmental Site Assessment
Former I.U. Food Storage Building
600 N. Rogers Street
Bloomington, Indiana
BCA Project 7950/14-127

Ms. Alano-Martin:

Per your request, please find attached for your review an electronic copy (PDF) of the Phase II Environmental Site Assessment for the Former Indiana University Food Storage Building, located at 600 N. Rogers Street, Bloomington, Monroe County, Indiana.

Should you have any questions regarding the findings of this report or should you need additional information, please do not hesitate to contact me at (317) 578 - 4233.

We appreciate the opportunity to be of assistance.

Sincerely,

Len Hinrichs, LPG
Project Manager

cc: Romona Smith, Brownfields Project Manager, U.S. EPA Region 5 (electronic copy)

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PHASE II
ENVIRONMENTAL SITE ASSESSMENT

Former Indiana University
Food Storage Building
600 North Rogers Street
Certified Technology Park
Bloomington, Indiana 47404

August 30, 2014

Cooperative Agreement # BF00E0127-0

BCA Project No. 7950/14-127

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1.0 INTRODUCTION

Bruce Carter Associates, LLC (BCA) was requested by Ms. Danise Alano-Martin, Economic and Sustainable Development Director, City of Bloomington, Indiana to perform a Phase II Environmental Site Assessment (ESA) of the former Indiana University Food Storage Building site located at 600 North Rogers Street in Bloomington, Indiana (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 # BF00E0127-0). This report presents the information obtained during the investigation and provides discussion, conclusions and recommendations based on the information.

The Subject Site is described as consisting of all or parts of four (4) parcels of land identified as 53-05-32-400-004.000-005 and 53-05-33-300-021.001-005, and the southern two-thirds of 53-05-33-200-013.000-005 and 53-05-32-100-035.000-005, totaling approximately 4.1 acres of land that is situated in the Bloomington Certified Technology Park (CTP),.City of Bloomington, Monroe County, Indiana. Note: the Subject Site encompasses the portion of West 10th Street that lies between North Morton and North Rogers Streets.

The property adjoining to the north is occupied by a vacant commercial building; the property adjoining to the northeast is occupied by a former rail spur and a municipal storage facility; the property adjoining to the east is occupied by a commercial parking lot; the property adjoining to the north and south of the West 10th Street portion of the Subject Site are occupied by commercial office buildings; the properties adjoining to the south are occupied by City of Bloomington government buildings and municipal parking lots; the property adjacent to the southwest, across North Rogers St., is occupied by Bloomington Iron and Metal; and the property adjacent to the west, across North Rogers St., is occupied by a municipal parking lot and vacant land.

The Subject Site is owned by City of Bloomington Redevelopment Commission. The site operated historically as part of a furniture manufacturing facility from at least 1913 until early 1959 and as a food storage facility for Indiana University from 1971 until approximately 2010. All on-site buildings were demolished in February through May, 2014 and the site is currently vacant. Figure 1 illustrates the location of the Subject Site.

A Phase I ESA of the Subject Site was conducted by BCA for Ms. Danise Alano-Martin, Economic and Sustainable Development Director, City of Bloomington, Indiana, and dated March 4, 2014. The Phase I ESA identified the following recognized environmental conditions (RECs):

Subject Site – Former IU Food Storage Building, 600 N. Rogers Street

The historic operation of the Subject Site as part of a large scale furniture factory for over 50 years, a university storage warehouse for over 10 years, and a university food storage building for nearly 30 years including:

- potential historical releases of glues, varnishes, stains, paints, dyes, oils, solvents, veneers, wood treatments, or other chemicals associated with furniture manufacturing;

- evidence of former rail spurs on the property with the possibility for historical releases of petroleum products, solvents, paints, varnishes, and coal ash & cinders;

- presence of numerous floor drains with staining observed around them in the facility mechanical room and numerous containers of maintenance chemicals including compressor oils, gear oils, refrigerant additives, anti-foaming agents, and chlorinating agents staged in close proximity;

- six (6) potential hydraulic leveling units and a large trench drain with minor to heavy oily staining visible along its length observed in the truck dock/well area; and

- presence of a pad-mounted electrical transformer observed on the northwest corner of the property with no labels indicating PCB status.

Former IU Printing Services Building, 638 N. Rogers Street

The historic operation of this site as part of a large scale furniture factory for over 50 years and as university printing facility for nearly 30 years including:

- potential historical releases of glues, varnishes, stains, paints, dyes, oils, solvents, veneers, wood treatments, or other chemicals associated with furniture manufacturing; and

- potential historical releases of hazardous chemicals commonly used in the printing industry such as solvents like toluene, methyl ethyl ketone, xylene, benzene, 1,1,1-trichloroethane, and vinyl chloride, as well as inks containing metals such as barium, chromium, silver, etc.

Indiana University (IU) Showers Warehouse, 11th Street between Morton and Rogers Streets

The historic use of this facility as a former permitted hazardous waste storage facility from 1982 to 1995 for hazardous wastes generated by Indiana University including: liquid and solid radioactive materials; PCB wastes (light ballasts); hazardous chemicals including solvents, flammables, and shock sensitive materials; non-regulated oil wastes; chemically-contaminated items (paper towels, rubber gloves, etc.); and waste photopaper.

Based on the results of the Phase I ESA, as well as the proposed future use of the Subject Site as part of the CTP, BCA was requested to conduct this Phase II ESA. The purpose of this investigation is to investigate the RECs identified in the Phase I ESA. Note: this investigation was conducted simultaneously with investigations of four other adjoining sites in the CTP, including the former IU Printing Services and IU Showers Warehouse identified above as RECs.

2.0 METHODOLOGY

The primary RECs identified in the Phase I ESA are the historical use of the site as a former furniture factory and as a food storage facility. The investigation procedures followed BCA's Bloomington Quality Assurance Project Plan and Field Standard Operating Procedures (QAPP and Field SOP) and those recommended by the Indiana Department of Environmental Management (IDEM) 2014 Remediation Closure Guide (RCG), regulations, and industry-accepted practices. Investigation results were compared to IDEM's RCG Commercial/Industrial Screening Levels (ISLs) and Excavation Screening Levels (ESLs) for the direct soil contact exposure pathway; as well as the soil Migration to Groundwater Screening Levels (MTGW) exposure pathway, and Residential tap water (GW) Screening Levels (RGSLs) and Vapor Exposure Screening Levels (VESLs) for the groundwater exposure pathway from IDEM's RCG, Appendix A, Table A-6: Screening Level Summary Table – 2014 Updates.

2.1 Sampling and Analysis Plan and Health and Safety Plan

A site-specific Sampling and Analysis Plan (SAP) and health and safety plan (HASP) was prepared for the site and approved by U.S. EPA, prior to Phase II site activities. Unless otherwise noted, the procedures utilized during the investigation followed the SAP. Copies of the SAP and HASP are provided in Appendix A.

2.2 Phase II Site Investigation

The Phase II Site Investigation was comprised of three phases including:

- installation of soil/groundwater probes;
- subsurface soil sampling for laboratory analysis; and
- groundwater sampling for laboratory analysis.

2.3 Subsurface Soil Probe Sampling

Based on the results of the Phase I ESA and depictions of the Subject Site on historical Sanborn® maps, on May 19-21, 2014, BCA directed ARK, Inc. of Indianapolis, Indiana in the installation of seven (7) subsurface soil probes on the Subject Site using a Geoprobe® Model 7800 direct-push probe system. All probes were determined and located in the field by BCA personnel after approval by U.S. EPA. Figure 2 illustrates the locations of the soil probes and the former Food Storage Building footprint.

<u>Soil/Groundwater Probes</u>

Five (5) of the seven (7) subsurface probes (SB-4, SB-15, SB-17, SB-18, and SB-20) were advanced into groundwater or to refusal (bedrock) which was encountered between 9.5-and 15 ft. bgs.

- SB-4 was located on the southeast corner of the site, in the West 10th Street ROW.

- SB-15 was located in the east-central portion of the Subject Site, in the location of portions of the former furniture factory.

- SB-17 was located adjacent to the east side of the former Food Storage Building, along a suspected former rail spur.

- SB-18 was located in the northeastern portion of the Food Storage Building footprint, adjacent to the former mechanical room.

- SB-20 was located adjacent to the former Food Storage Building truck loading dock area.

Shallow Soil Probes

Two (2) of the subsurface probes (SB-10 and SB-16) were advanced to eight (8) feet below ground surface (bgs).

- SB-10 was located adjacent to the suspected PCB transformer pad situated near the north property line of the Subject Site

- SB-16 was located adjacent to the east side of the former Food Storage Building, along a suspected former rail spur.

Soil probes were installed in four-foot long sections using a 2.125-inch diameter hollow steel sampling rod containing a disposable clear acetate liner. The rods were pushed into the soil or driven with a hydraulic hammer, advancing them through the substratum. The liners allowed the collection of continuous, relatively undisturbed soil cores, minimizing cross-contamination between both stratigraphic horizons and probe locations. Once each 4-foot depth interval was achieved, the sampling rods were withdrawn, and the liners containing the soil cores were extracted from the sample rods and labeled. The 4-foot acetate liners were split in the field and the exposed soil core was initially scanned with a photoionization detector (PID) and the results recorded on the site log. All PID readings are presented on the boring logs in Appendix B. Soil samples were then logged in four-foot intervals by BCA in accordance with the Unified Soil Classification System (USCS).

Specific soil descriptions and corresponding depth intervals are included on the boring logs in Appendix B.

A subsurface soil sample from each of the soil probes was selected for laboratory analysis. The sample interval was selected based on the field screening results (PID readings and visual/olfactory observations). In the absence of any of these, the default sample interval was generally shallow (0-2' bgs) for metals, SVOCs/PAHs, PCBs, and herbicides due to their lower vertical mobility. At some locations the 4-6' bgs interval was chosen due to the presence of a buried layer of coal, ash and cinders. Sample intervals for soil VOCs were also selected based on the field screening results, with the default interval being that immediately above the water table (if encountered). Soil samples for VOC analysis were collected by means of a disposable Sample Smart T-handle sampler (EPA Method 5035A). All samples were transferred directly into sample bottles (of types specified by the EPA methods) as provided by the analytical laboratory.

Samples were placed in coolers, chilled with ice (or frozen within 24 hours), and were transferred either by courier or delivered directly to PACE Analytical Laboratories of Indianapolis (PACE) for VOCs, SVOCs/PAHs (or PAHs only), metals, PCBs, and herbicides analyses. Chain-of-custody was maintained at all times during sample collection and sample transportation. Samples were analyzed by the following methods, depending on their location:

- VOCs = volatile organic compounds. Analysis by EPA Method 8260.
- PAHs = polynuclear aromatic hydrocarbons. Analysis by EPA Method 8270SIM.
- SVOCs = semivolatile organic compounds. Analysis by EPA Method 8270
- 14 Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Analysis by EPA Method 6010B, 245.1/7470A.
- PCBs = polychlorinated biphenyls. Analysis by EPA Method 8082.
- Herbicides. Analysis by EPA Method 8151

All probe locations were recorded to one (1)-meter accuracy by means of a Trimble Nomad 900G sub-meter accuracy (Post-processed) GPS receiver. A table of UTM coordinates is included in Appendix C.

2.4 Groundwater Sampling

Once soil samples were collected and each probe advanced to final depth, a temporary 1-inch well point, consisting of five (5) feet of 0.010 slotted PVC screen with PVC riser to the surface, was installed into each of the five (5) groundwater probe holes.

To the extent possible, groundwater samples were to be collected using the low flow sampling method outlined in the IDEM OLQ Geological Services Technical

Memorandum "Micro-Purge Sampling for Monitoring Wells" dated January 8, 2003 (IDEM Low Flow guidance). Groundwater was to be pumped from each of the well points utilizing single-use dual tube polyethylene tubing connected to a variable rate, stainless steel bladder pump with a Teflon bladder. Samples were to be obtained after any three of five field parameter (temperature, specific conductivity, dissolved oxygen, pH, and oxidation/reduction potential (ORP)) readings had stabilized per the conditions outlined in the IDEM Low Flow guidance. Consistent with the protocol, a steady state drawdown of < 0.1 foot was to be sustained for each of the probes at a flow rate of one (1) Liter per minute or less.

However, due to the predominantly shallow bedrock and overlying tight, unconsolidated materials (clays, silts, fill material, etc.) none of the five (5) well points (SB-GW-4, SB-GW-15, SB-GW-17, SB-GW-18, and SB-GW-20) installed on the Subject Site were able to maintain sufficient flow rates to use the low flow sampling method. Instead, a modified sampling method utilizing a combination of the bladder pump and a 12-volt peristaltic pump was employed in order to collect representative groundwater samples.

If the recharge from a well point was not sufficient to prevent it from going dry (even at extremely low purge rates < 50 milliliters per minute (ml/min)), then low flow sampling was suspended, the bladder pump was withdrawn, and a 12-volt peristaltic pump was connected to the dedicated ¼" polyethylene tubing and the well was purged until total dryness. The well point was then allowed to recharge for up to 24 hours before attempting to collect a sample using the peristaltic pump to minimize sample agitation and loss. If a well point went dry again before all sample parameters were collected, then it was allowed to recharge one or more additional times in an attempt to collect at least the minimum sample volumes necessary for analyses. Note: the recovery rate of well point SB-GW-20 was insufficient to collect enough volume for all sample parameters.

Groundwater samples were pumped directly into sample bottles of types specified by the EPA methods and provided by the analytical laboratory, or were filtered in the field (using disposable in-line 10-μm cartridge filters) prior to being pumped into sample bottles. Field data log sheets are included in Appendix E.

Samples were placed in coolers, chilled with ice, and were submitted to PACE for VOC, PAH, and 14 metals analyses. Filtered groundwater samples and hexavalent chromium ($Cr+^{6}$) groundwater samples were also submitted to the lab and held pending the results of the initial total metals analysis. Chain-of-custody was maintained at all times during sample collection and sample transportation. Field data log sheets are included in Appendix D.

Non-dedicated sampling equipment (e.g., bladder pump) was decontaminated between each use by submersing/cleaning it in a distilled water and Alconox soap solution followed by a distilled water rinse.

All groundwater samples were analyzed by the following methods:

- VOCs = volatile organic compounds. Analysis by EPA Method 8260.
- PAHs = 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, 245.1/7470A.

In addition, based on the results of the initial total metals analysis, three of the filtered groundwater samples were submitted for analysis of one to four metals each to determine the effects of sediment on the metals analysis.

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 3.2-3.3 below, in Tables 1-8, and Figures 3-7. Note that Tables 1-8 include soil and groundwater testing results from adjoining sites within the CTP. Figures 6 and 7 include groundwater results from adjoining upgradient sites within the CTP.

Results of the Subsurface Soil Sampling and Groundwater Sampling were compared to the following IDEM RCG screening levels for soil and groundwater as applicable (Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table – 2014):

- Industrial/Commercial Screening Levels (ISLs) for soil direct contact
- Excavation Screening Levels (ESLs) for soil direct contact
- Migration to Groundwater (MTGW) for soil
- Residential Groundwater Screening Levels (RGSLs) for groundwater
- Vapor Exposure Screening Levels (VESLs) for groundwater

3.1 Physical Setting/Subsurface Conditions

As estimated from the U.S. Geologic Survey Bloomington Indiana Quadrangle Map (1966, photo-revised 1990; C.I. = 10 feet), the elevation of the site is approximately 790 feet above mean sea level (ft MSL). The Subject Site is situated on relatively level terrain. Surface drainage in the area of the Subject Site is generally to the southeast, toward Clear Creek located 0.90 miles southeast of the Subject Site.

The soil under the Subject Site is mapped as belonging to two soil types:

- Udorthents (Ua) loamy soils cover 98.9% of the Subject Site, and are deep, well drained soils typically covered with trees or woody vegetation; and

- Crider-Urban land complex (CtC) silt loam (6 to 12 percent slope) covers 1.1% of the Subject Site, and consist of deep, well drained soils situated on backslopes, shoulders, and sideslopes of hills. (Web Soil Survey)

The area of the Subject Site is located approximately on the border between the two physiographic provinces known as the Mitchell Plain and the Crawford Upland which trend approximately north-south paralleling the regional bedrock strip (Fenelon, et al, 1994). The Subject Site is positioned more in the Crawford Upland where topography is very diverse. The Subject Site resides in the unglaciated part of the basin.

Unconsolidated deposits in the unglaciated area are mostly soils that have developed on the underlying bedrock. Exposed bedrock types include silt-stone, shale, carbonate rock and sandstone. Residual reddish-brown soils developed on the carbonate rocks can be as thick as 50 feet (Gray, 1989). Most of the area however, is covered by thin deposits of soils and loess that are generally from 5 to 20 feet thick (Gray, 1989).

The bedrock geology of the area is recognized as part of the Sanders Group (Gray, et al, 1987). The Sanders group is composed of mostly skeletal limestone, cherty in the lower part, and range in thickness to about 350 feet in Monroe County. The Sanders Group has well-developed karst solution features (sinkholes and caves) throughout much of their outcrop area (Fenelon, et al, 1994).

The Subject Site is located within the hydrogeologic province of the East Fork White River Basin (Fenelon, et al, 1994). A thick Mississippian carbonate bedrock aquifer has been identified in the area around Bloomington. (Fenelon, et al, 1994). The City of Bloomington is served by a public water supply. Static water level in the general area of the Subject Site ranges from 7 feet below ground surface (bgs) to approximately 30 feet bgs.

The Subject Site exists on an artificially filled stream valley. Surface contours at the Subject Site are generally gently sloping to the south-southeast, and groundwater beneath the Subject Site likely flows generally south-southeast along the filled stream valley, which is a tributary to Clear Creek, located approximately 4,500 feet southeast of the Subject Site (USEPA, et al, 1995).

Soils encountered and logged during the installation of the soil and groundwater probes generally consisted of surface asphalt paving/gravel base material and topsoil, fill material (including coal ash and cinders (CAC), bricks, concrete, gravel, clay, etc.), clays, silty clays, and limestone (bedrock). Bedrock was encountered on the Subject Site from 9.5 ft. to 15 ft. bgs. Groundwater (when encountered) was observed from approximately 4.25 ft. to 8.80 ft. bgs.

3.2 Subsurface Soil Probe Sampling

Not including QA/QC samples, a total of six (6) subsurface soil probe samples were analyzed for VOCs by EPA method 8260; one (1) sample was analyzed for SVOCs by EPA method 8270; six (6) samples were analyzed for PAHs by EPA method 8270 SIM; six (6) samples were analyzed for 14 metals by EPA Methods 6010B and 7470 (as applicable); one (1) sample was analyzed for PCBs by method 8082, and one (1) sample was analyzed for herbicides by EPA Method 8151.

Results of the laboratory analysis are summarized in Tables 1-5 and on Figures 3-6. The full analytical laboratory report is included in Appendix E. The results of the sampling and analysis showed the following:

VOCs

VOCs were not detected in four (4) of the subsurface soil samples submitted for analysis, and in the two (2) other samples, VOCs were detected, but at concentrations significantly less than RCG SLs.

SVOCs

In the one (1) subsurface soil sample submitted for full SVOC/PAH analysis, no SVOCs (other than PAHs) were detected.

PAHs

PAHs were detected in nine (9) of the ten (10) soil samples from the site submitted for analysis and four exceeded the RCG RSLs. However, only one analyte was detected in one sample at a concentration exceeding the RCG ISL:

- Benzo(a)pyrene was detected above the ISL of 2.1 mg/kg in the soil sample from SB-16 (4-6') (8.2 mg/kg).

Samples from intervals above (SB-16 (0-2) and SB-16 (2-4)) and below (SB-16 (6-8)) the SB-16 (4-6) interval were submitted for PAH analysis to determine the vertical extent of impacted soil. The results from the follow-up analyses indicated that no analytes exceeded the RCG SLs in the intervals above and below SB-16 (4-6) except:

- naphthalene was detected slightly above the MTGW of 0.092 mg/kg in the soil sample from SB-16 (6-8') (0.10 mg/kg).

Metals

One or more metals were detected in all six (6) of the soil samples submitted for analysis, five (5) exceeded the RCG MTGW for arsenic (5.9 mg/kg), four (4) exceeded the RCG RSL for arsenic (8.5 mg/kg) and two exceeded the RCG RSL for thallium (1.1 mg/kg). However, none of the concentrations exceeded the RCG ISLs.

PCBs

PCBs were not detected in the one (1) soil sample submitted for analysis.

Herbicides

Herbicides were not detected in either of the two (2) soil samples submitted for analysis (including QA/QC samples).

Data Assessment

For quality control purposes, all of the samples and QA/QC samples collected during the subsurface soil sampling of the five (5) sites within the CTP are considered to be on the "site". Soil QA/QC samples from the CTP site included field duplicate samples, MS/MSD samples and a trip blank. QA/QC samples were analyzed for VOCs by EPA Method 8260, SVOCs/PAHs by EPA Method 8270/8270SIM, 14 metals by EPA Methods 6010B and 7470 (as applicable), PCBs by EPA Method 8082, and herbicides by EPA Method 8151.

Field duplicates for herbicides, PCBs and SVOCs (other than PAHs), as well as most analytes for VOCs, PAHs, and metals were less than the reporting limits (<RL) in both the sample and the duplicate, equating to a zero percent relative difference (0% RPD). For detections, soil VOC varied from 21% to 167% RPD, PAHs varied from 11% to 161% and metals varied from 0% to 25%. None of the metals detections had a field duplicate RPD greater than the notice limit of 50% for soil. Four of the 15 PAHs for which detections were greater than five times the reporting limit (>5 x RL) had a field duplicate RPD greater than the notice limit of 50% for soil. None of the four analytes (acenaphthene, anthracene, fluorene and phenanthrene) had any detections near their respective RCG SLs. Two (2) of the seven (7) VOCs for which detections were >5 x RL had a field duplicate RPD greater than 50%. Neither of the two analytes (n-propylbenzene and sec-butylbenzene) had detections near their respective RCG SLs. Thus, the non-homogeneity of individual analytes does not potentially impact the report conclusions.

The overall precision of the sample set may be evaluated by determining the average RPD of all duplicates with detections >5 x RL. Of the 21 metals, 7 VOCs and 15 PAHs detection >5 x RL the average RPD was 43% for VOCs, 38% for PAHs and 10% for metals. Of a total of 42 analytes the RPD data were acceptable for 36, indicating 86% acceptable rate, exceeding the minimum of 75%.

The MS/MSD sample results were generally within control limits. Antimony generally had low recovery due to matrix interference. Some metals and PAHs were outside control limits due to high sample concentrations relative to spike levels. Some outside-of-control limits were also identified as due to matrix interference or non-homogeneity of soil samples. Non-homogeneity of soil samples for PAHs was common for MSD samples where the control limit for RPD is 20%, but was not common for field duplicates where the RPD notice limit is 50%. Where out of control limits parameters were confirmed by other QA/QC measures.

Multiple QA/QC limits were outside control for herbicide results for SB-22(1-3') and the sample results should be considered estimated. Laboratory continuing calibration was outside control limits for naphthalene and 1,2,4-trimethylbenzene for SB-18(4-6') and the results were indicated as estimated. Samples SB-16(0-2'), SB-16(2-4'), and SB-16(6-8') were follow-up samples to delineate the elevated detection at SB-16(4-6'). The three samples were extracted out of holding time and are considered estimated.

Laboratory QA/QC included method blanks, laboratory control standards (LCS) and surrogate spikes. Zinc was detected in one (of several) method blanks, but not in field blanks and the detection was too low to impact investigation results. All laboratory QA/QC results were generally within control limits. Where outside control limits, results were confirmed by other QA/QC sample results, corresponding samples or analytes were below reporting limits and/or far below screening levels.

Level III QA/QC data packages are included with the lab reports in Appendix E.

3.3 Groundwater Sampling

Not including QA/QC samples, a total of five (5) groundwater samples were analyzed for VOCs by EPA method 8260 and PAHs by method 8270SIM; and four (4) groundwater samples were analyzed for 14 metals by EPA Methods 6010B and 7471 (as applicable).

Results of the laboratory analysis are summarized in Tables 6-8 and on Figures 7 and 8. The full analytical laboratory report is included in Appendix E. The results of the sampling and analysis showed the following:

<u>VOCs</u>

No VOCs were detected in three (3) of the groundwater samples submitted for analysis. In the two (2) other groundwater samples, one or more VOCs were detected, but at concentrations less than RCG SLs. One analyte (dichlorofluoromethane) was detected in one sample (SB-GW-18 – 180 ug/L) near the RCG RGSL (190 ug/L).

<u>PAHs</u>

No PAHs were detected in any of the groundwater samples submitted for analysis.

<u>Metals</u>

One or more metals were detected in each of the five (5) groundwater samples submitted for analysis (including duplicates). For three (3) groundwater samples (SB-GW-4, SB-GW-4 DUP, and SB-GW-18), all the detected concentrations were less than RCG SLs.

For the other two (2) groundwater samples, one or more analytes were detected at concentrations exceeding the RCG SLs:

- Arsenic was detected above the RGSL of 10 micrograms per liter (μg/L) in the groundwater sample from SB-GW-17 (21.4 μg/L). However, the concentration of arsenic in the filtered groundwater sample for SB-GW-17 was less than the detection limit.

- Lead was detected above the RGSL of 15 μg/L in the groundwater samples from SB-GW-15 (18.9 μg/L) and SB-GW-17 (33 μg/L). However, the concentrations of lead in the filtered groundwater samples analyzed for SB-GW-15 and SB-GW-17 were far below the RCG SLs.

- Although total chromium was detected in two (2) of the submitted groundwater samples (SB-GW-15 and SB-GW-17) at concentrations less than the RCG SL of 100 μg/L for total chromium (14.4 μg/L and 45.7 μg/L respectively), the concentrations did exceed the RGSL of 0.31 μg/L for Cr^{+6}. So the higher concentration sample was analyzed for Cr^{+6}. None was detected in the sample at a reporting limit of 10 μg/L. In addition, the concentrations of total chromium in the filtered groundwater samples analyzed were less than detection limits, or only at trace levels.

Data Assessment

For quality control purposes all groundwater and groundwater QA/QC samples collected during groundwater sampling on the five (5) CTP sites are considered to be on the "site". The groundwater QA/QC samples included two field duplicate samples, two MS/MSD's, four equipment blanks, and a trip blank (VOCs only). .

For most VOC, PAH and metal analytes, groundwater field duplicates were less than the reporting limits (<RL) in both the sample and the duplicate, equating to a zero percent relative difference (0% RPD). For the four groundwater duplicate detections, the RPD varied from 2% to 81%, with two below the 35% notice level. Only one of the four (4) duplicate analyte detections was greater than five times the reporting limit (>5 x RL) and it had a RPD of 2%.

The overall precision of the sample set may be evaluated by determining the average RPD of all duplicates with detections >5 x RL. Although the data set has too few detections to evaluate the overall precision, the single duplicate RPD of 2% suggests good precision (for results well above the detection limit).

No analytes were detected in any of the four (4) equipment blanks or in the trip blank.

The groundwater MS/MSD sample results were generally within control limits. Laboratory QA/QC included method blanks, laboratory control standards (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

The Subject Site is described as consisting of all or parts of four (4) parcels of land identified as 53-05-32-400-004.000-005 and 53-05-33-300-021.001-005, and the southern two-thirds of 53-05-33-200-013.000-005 and 53-05-32-100-035.000-005, totaling approximately 4.1 acres of land that is situated in the Bloomington Certified Technology Park (CTP), City of Bloomington, Monroe County, Indiana. Note: the Subject Site encompasses the portion of West 10th Street that lies between North Morton and North Rogers Streets. The site is currently a vacant lot that was formerly the location of a university food storage building and a furniture manufacturing facility.

The assessment included soil and groundwater sampling. Results of the assessment indicate that no subsurface soils exceeded RCG SLs for VOCs, PCBs, or herbicides. Most soil samples did exceed the RCG RSL for arsenic, however, the levels are typical of urban background and not specifically indicative of a contamination source. Subsurface soils exceed the RCG MTGW for arsenic in samples from most borings and for PAHs in two samples from SB-16.

Soils exceeded the ISL for BaP in one sample, probe SB-16 (4-6')The only significant exceedance is associated with a buried layer of coal ash and cinders (CAC) and the sample is sandwiched between layers of soil above and below with little or no PAHs. This indicates that PAHs have not migrated significantly out of the CAC layer. CAC-containing fill material was observed in two (2) of the probes (SB-4 and SB-16) installed on the Subject Site during the assessment with thicknesses of approximately 3 inches and 2 feet respectively. Both probes were located approximately on or near suspected former rail spurs.

The depth to bedrock as measured in the five GW probes on the Subject Site ranged from approximately 9.5 feet to 15 feet bgs. For groundwater, no samples exceeded RCG SLs for VOCs, PAHs, or most metals. Although two of the four groundwater sample locations exceeded RCG SLs for total arsenic and/or total lead, results for these analytes from filtered samples from these probes were either non-detect or far below the RCG SLs. This indicates that the total metals results were most likely biased by silt/sediment within the groundwater during sampling. The absence of arsenic and PAHs in the groundwater indicates that arsenic in the soil exceeding the MTGW in the soil above the groundwater sampling location or PAHs elsewhere on the site are not a threat to groundwater and the pathway is incomplete.

Although no groundwater samples exceed the RCG SLs, SB-GW-18, located near the former mechanical room (which included refrigeration units), was found with dichlorodifluoromethane (Freon 12 refrigerant) just below the RCG SL.

Some of the RECs identified in the Phase I ESA for the Subject Site included the potential for impact from adjoining off-site sources. No significant sources of contamination were identified on the adjoining CTP sites which could potentially impact the Subject Site (BCA 2014b, c, d, and e).

5.0 RECOMMENDATIONS

BCA has performed a Phase II Environmental Site Assessment of the Subject Site, the former Indiana University Food Storage Building, in Bloomington, Indiana. Based on the current and proposed future use of the Subject Site as a Certified Technology Park (commercial/industrial land-use), BCA recommends the following as part of any remediation or redevelopment plan:

- Determine whether dichlorodifluoromethane (Freon 12 refrigerant) exceeds the RCG SL in the groundwater near SB-18.

- Determine the extent of CAC in the vicinity of SB-17 and along the rail spurs. Confirm whether PAHs are present above RCG ISLs.

- As part of redevelopment, minimize the disturbance of subsurface soils in the 4-6' depth, along the former rail spur that runs north/south on the eastern edge of the former Food Storage Building footprint, as well as the former rail spur that crosses W. 10th Street at the southeast corner of the Subject Site (see Figure 2). If soils must be disturbed, an environmental professional should be consulted to ensure that excavated soils be handled and disposed of properly if necessary.

6.0 REFERENCES

1. Astbury Environmental Engineering 2010, *Phase I Environmental Site Assessment, Property Southwest of 11th Street & Morton Street, Bloomington, Indiana, December 1, 2010*, *Project # 419.10.*

2. Astbury Environmental Engineering 2011, *Phase I Environmental Site Assessment, Supplemental Information Report Addendum, Property Southwest of 11th Street & Morton Street, Bloomington, Indiana, December 23, 2010*, *Project # 419.10.*

3. Astbury Environmental Engineering 2010, *Phase I Environmental Site Assessment, Supplemental Information Report Addendum, Property Southwest of 11th Street & Morton Street, Bloomington, Indiana, March 4, 2011*, *Project # 419.10.*

4. Bruce Carter Associates LLC 2014, *Phase I Environmental Site Assessment, Former Indiana University Food Storage Building, 600 North Rogers Street, Bloomington, Indiana, March 4, 2014, Project #7950/14-044*

5. Bruce Carter Associates LLC 2014b, *Phase II Environmental Site Assessment, Parking Lot, 555 North Morton Street, Bloomington, Indiana, August 30, 2014, Project #7951/14-127*

6. Bruce Carter Associates LLC 2014c, *Phase II Environmental Site Assessment, Former Indiana University Printing Services Building, 638 North Rogers Street, Bloomington, Indiana, August 30, 2014, Project #7952/14-127*

7. Bruce Carter Associates LLC 2014d, *Phase II Environmental Site Assessment, Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street, Bloomington, Indiana, August 30, 2014, Project #7953/14-127*

8. Bruce Carter Associates LLC 2014e, *Phase II Environmental Site Assessment, Vacant Lot, North Rogers Street, Bloomington, Indiana, August 30, 2014, Project #7954/14-127*

9. 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.

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

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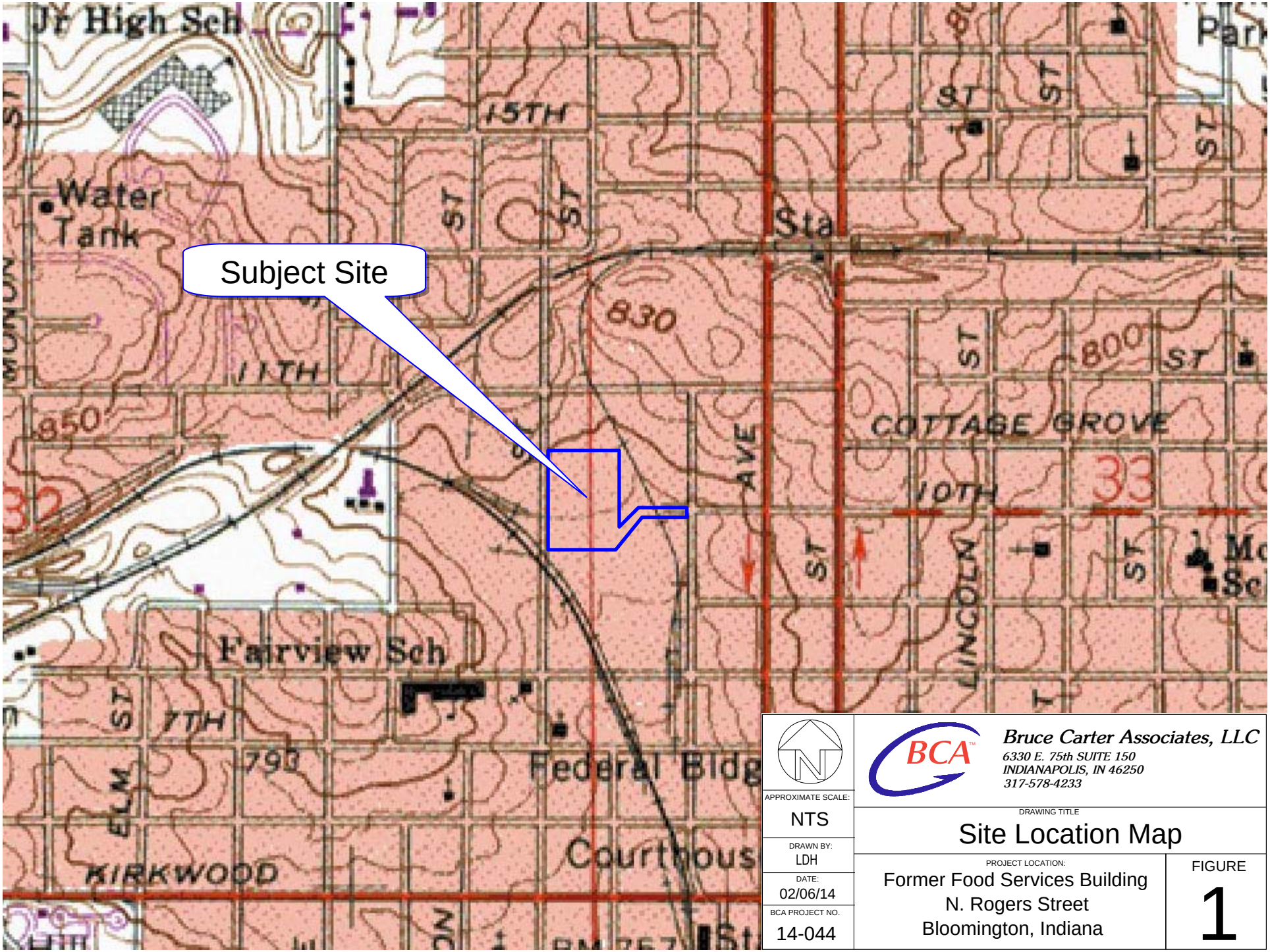
Figures

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404



APPROXIMATE SCALE:
NTS

DRAWN BY:
LDH

DATE:
02/06/14

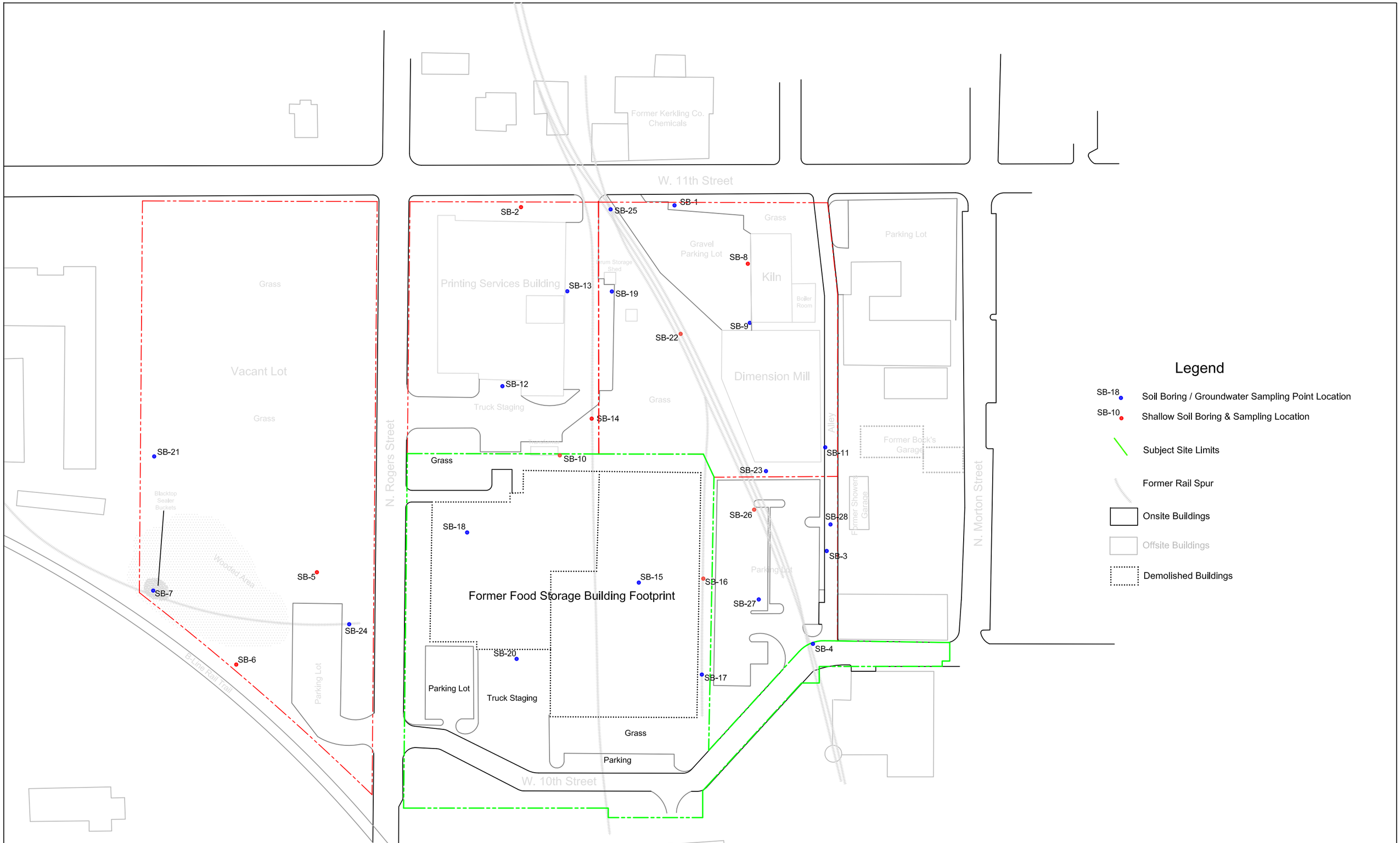
BCA PROJECT NO.
14-044

Bruce Carter Associates, LLC
6330 E. 75th SUITE 150
INDIANAPOLIS, IN 46250
317-578-4233

DRAWING TITLE
Site Location Map

PROJECT LOCATION:
Former Food Services Building
N. Rogers Street
Bloomington, Indiana

FIGURE
1



Bruce Carter Associates, LLC
6330 E 7th St, Suite 150
Indianapolis, IN 46250
317-578-4233

DATE: 07/28/14

SCALE: 1" = 100'

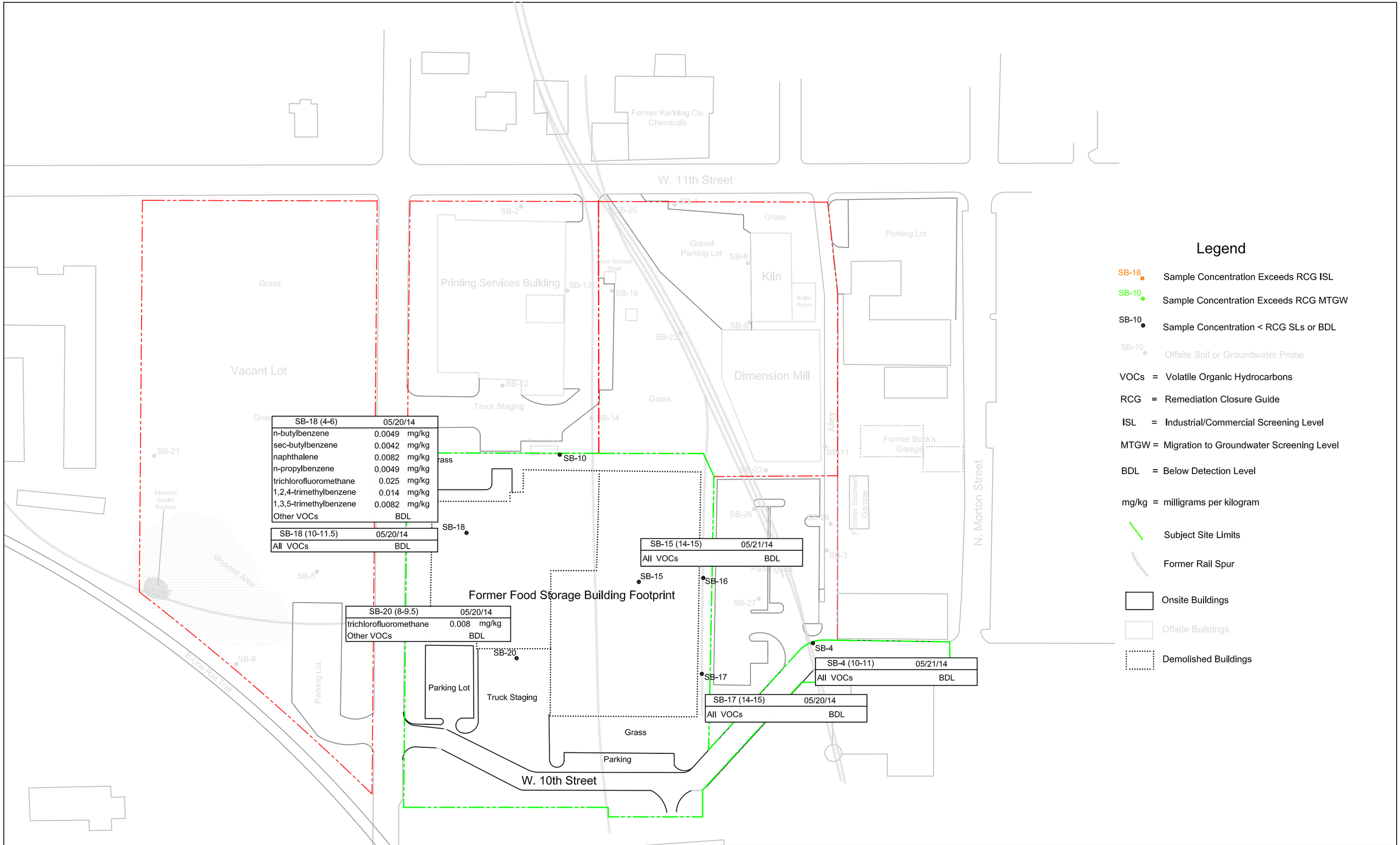
DRAWING TITLE
Site Map
Boring Locations

PROJECT LOCATION:
CTP Site #1
Former I.U. Food Storage Building
Bloomington, Indiana

DRAWN BY: LDH

BCA SITE NO. 7950

FIGURE 2



Bruce Carter Associates, LLC
6330 E 7th St, Suite 150
Indianapolis, IN 46250
317-578-4233

DATE: 07/28/14
SCALE: 1" = 100'

DRAWING TITLE
Soil Sampling Results
VOCs

PROJECT LOCATION:
CTP Site #1
Former I.U. Food Storage Building
Bloomington, Indiana

DRAWN BY: LDH
BCA SITE NO. 7950

FIGURE 3

Former Kerkling Co. Chemicals

W. 11th Street

Grass

Vacant Lot

Grass

SB-21

Blacktop Sealer Buckets

Wooded Area

SB-5

SB-24

SB-6

B-Line Rail Trail

Parking Lot

Printing Services Building

SB-2

SB-13

SB-12

Truck Staging

Rogers St

SB-25

Drum Storage Shed

SB-19

SB-14

Grass

SB-10

SB-18

SB-15

Former Food Storage Building Footprint

SB-20

Parking Lot

Truck Staging

Grass

Parking

W. 10th Street

Gravel Parking Lot

SB-8

Grass

Kiln

Boiler Room

SB-9

SB-22

Dimension Mill

Grass

Alley

SB-11

Former Bock's Garage

SB-16

SB-27

SB-17

SB-4

Parking Lot

SB-10 (10-11.5)	05/20/14
All PCBs	BDL

SB-18 (4-6)	05/20/14
All PAHs	< RCG SLs or BDL

SB-15 (7-8)	05/20/14
All PAHs	< RCG SLs or BDL

SB-16 (4-6)	05/20/14
benzo(a)pyrene	8.2 mg/kg
benzo(a)anthracene	9.2 mg/kg
Other SVOCs/PAHs	< RCG SLs or BDL

SB-16 (4-6)	05/20/14
All Herbicides	BDL

SB-16 (4-6) DUP	05/20/14
All Herbicides	BDL

SB-16 (0-2)	05/20/14
All SVOCs	< RCG SLs or BDL

SB-16 (2-4)	05/20/14
All SVOCs	BDL

SB-16 (6-8)	05/20/14
naphthalene	0.1 mg/kg
Other SVOCs	< RCG SLs or BDL

SB-4 (0-2)	05/21/14
All PAHs	< RCG SLs or BDL

Legend

SB-18 Sample Concentration Exceeds RCG ISL

SB-10 Sample Concentration Exceeds RCG MTGW

SB-10 Sample Concentration < RCG SLs or BDL

SB-10 Offsite Soil or Groundwater Probe

SVOCs = Semi Volatile Organic Hydrocarbons

RCG = Remediation Closure Guide

ISL = Industrial/Commercial Screening Level

MTGW = Migration to Groundwater Screening Level

BDL = Below Detection Level

mg/kg = milligrams per kilogram

Subject Site Limits

Former Rail Spur

Onsite Buildings

Offsite Buildings

Demolished Buildings

0 25 50 100 200

BCA
Bruce Carter Associates, LLC
6330 E 7th St, Suite 150
Indianapolis, IN 46250
317-578-4233

DATE: 07/28/14

SCALE: 1" = 100'

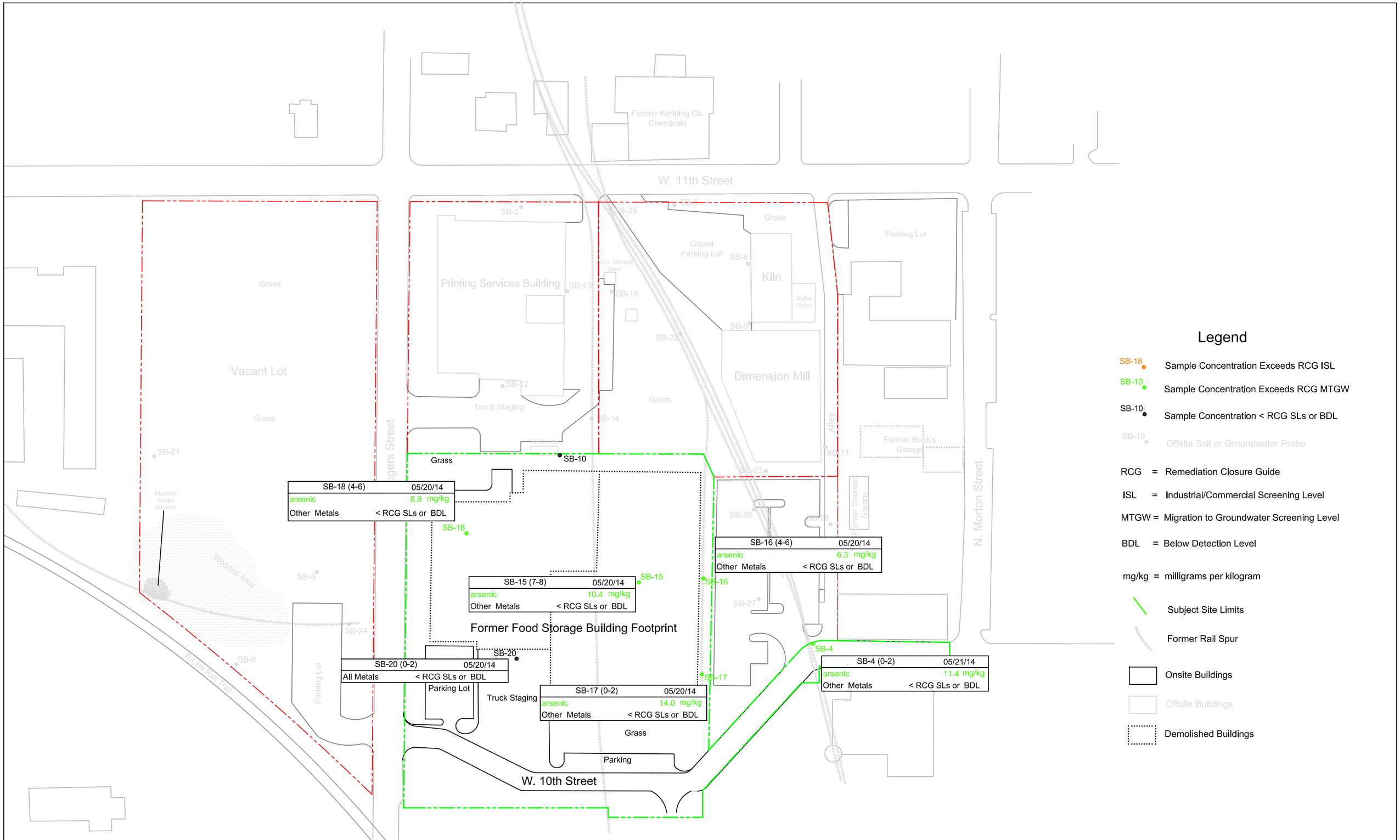
DRAWING TITLE
Soil Sampling Results
SVOCs, PAHs, PCBs & Hebicides

PROJECT LOCATION:
CTP Site #1
Former I.U. Food Storage Building
Bloomington, Indiana

DRAWN BY: LDH

BCA SITE NO. 7950

FIGURE 4



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317-578-4233

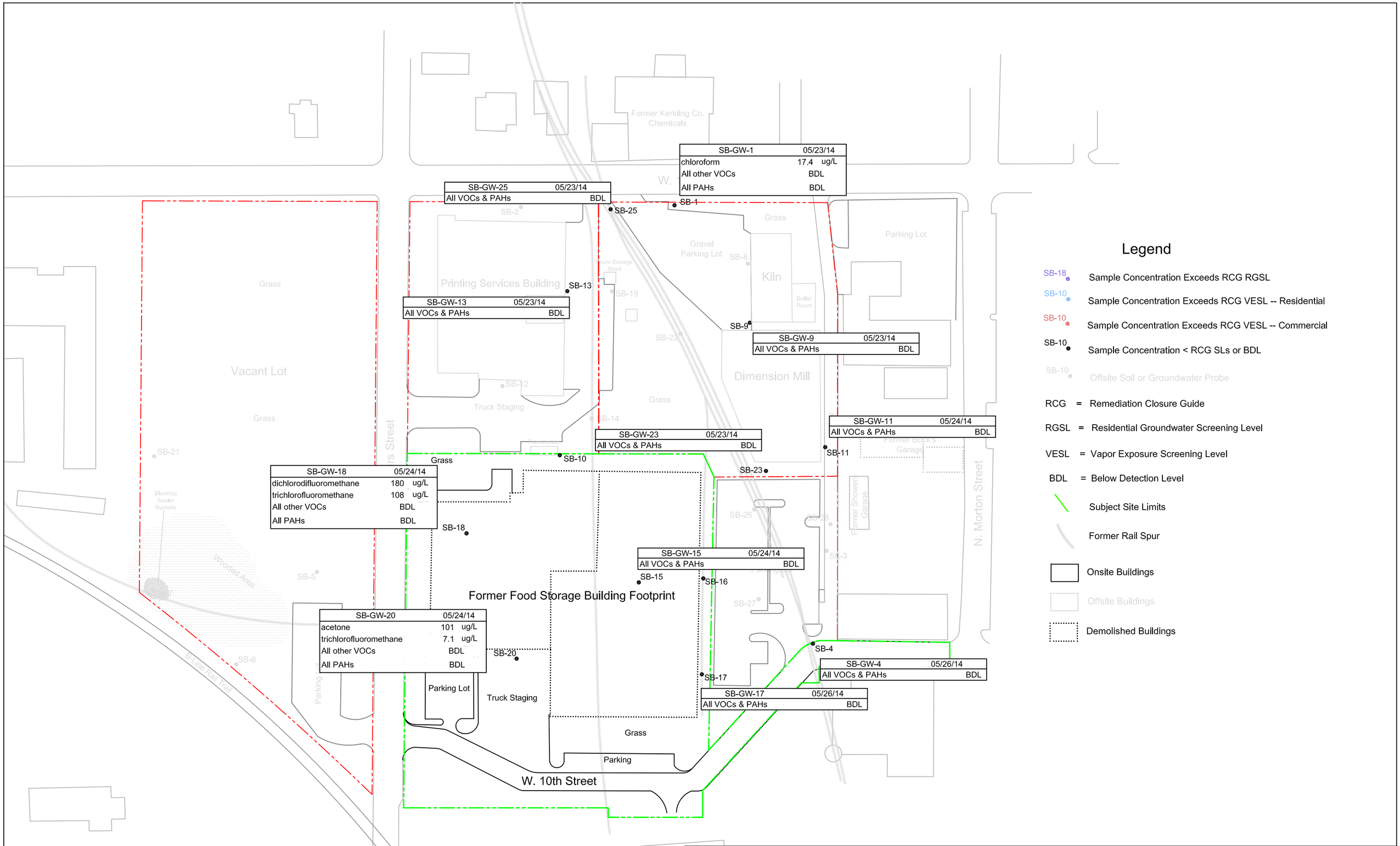
DATE: 07/28/14
SCALE: 1" = 100'

DRAWING TITLE
Soil Sampling Results
Metals

PROJECT LOCATION:
CTP Site #1
Former I.U. Food Storage Building
Bloomington, Indiana

DRAWN BY: LDH
BCA SITE NO. 7950

FIGURE 5



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317-578-4233

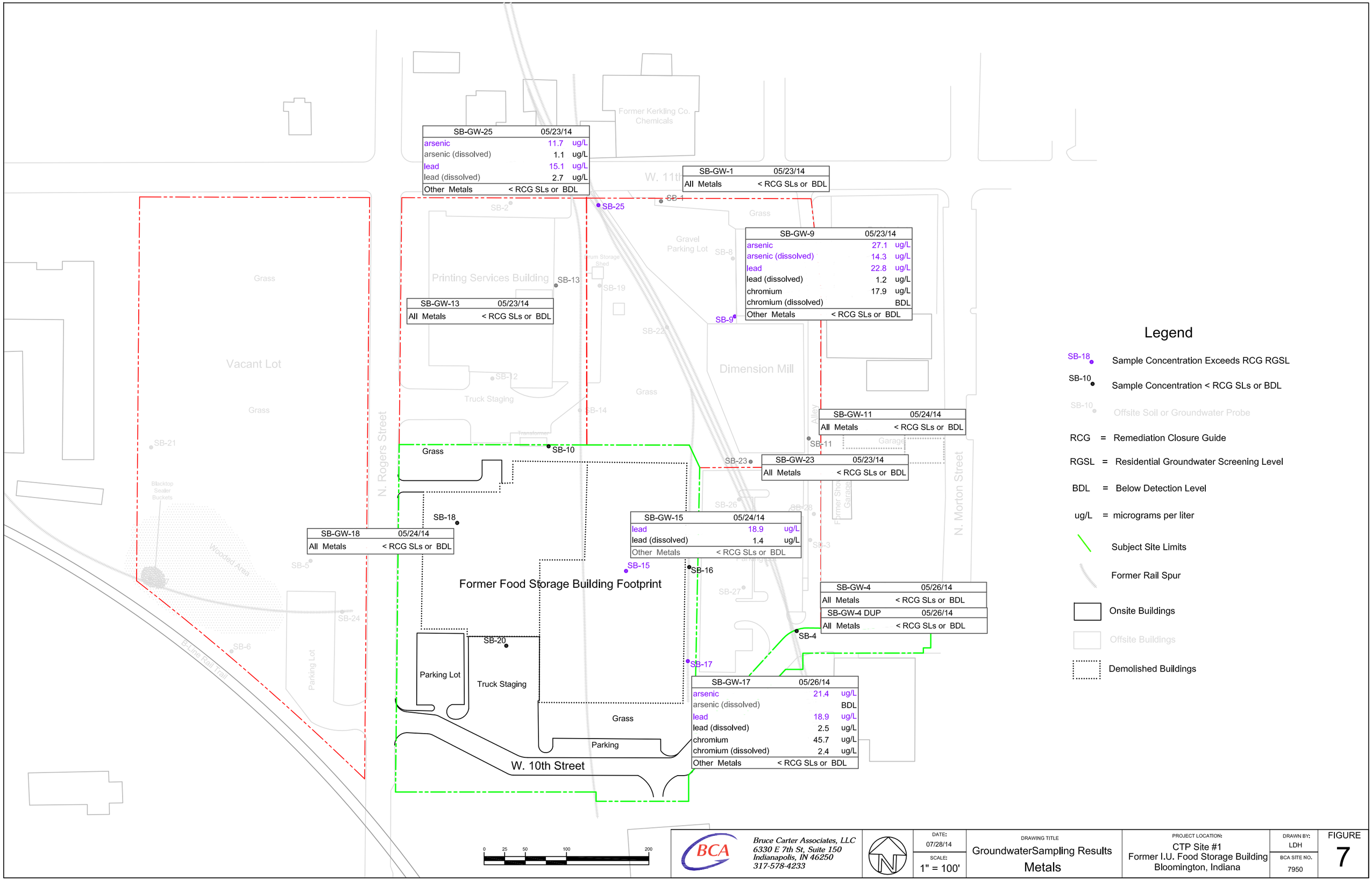
DATE: 07/28/14
SCALE: 1" = 100'

DRAWING TITLE
Groundwater Sampling Results
VOCs & PAHs

PROJECT LOCATION:
CTP Site #1
Former I.U. Food Storage Building
Bloomington, Indiana

DRAWN BY: LDH
BCA SITE NO. 7950

FIGURE 6



Bruce Carter Associates, LLC
6330 E 7th St, Suite 150
Indianapolis, IN 46250
317-578-4233

DATE: 07/28/14	DRAWING TITLE: GroundwaterSampling Results Metals	PROJECT LOCATION: CTP Site #1 Former I.U. Food Storage Building Bloomington, Indiana	DRAWN BY: LDH	FIGURE 7
SCALE: 1" = 100'			BCA SITE NO. 7950	

Tables

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

Table 1
Soil Sampling Results
VOCs

Sample ID	Collected Date	Units	Acetone	n-Butylbenzene	sec-Butylbenzene	1,2-Dibromoethane (EDB)	Isopropylbenzene (Cumene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Other VOCs
		CAS Number	67-64-1	104-51-8	135-98-8	106-93-4	98-82-8	99-87-6	75-09-2	91-20-3	103-65-1	75-69-4	95-63-6	108-67-8	---
RCG Residential Screening Level*		**mg/kg**	**85000**	**110**	**---**	**0.48**	**270**	**---**	**150**	**50**	**260**	**1100**	**87**	**180**	**---**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**100000**	**110**	**---**	**1.7**	**270**	**---**	**530**	**180**	**260**	**1200**	**220**	**180**	**---**
RCG Excavation Screening Level*		**mg/kg**	**100000**	**110**	**---**	**180**	**270**	**---**	**3300**	**1000**	**260**	**1200**	**220**	**180**	**---**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**49**	**50**	**---**	**0.00028**	**13**	**---**	**0.025**	**0.092**	**20**	**14**	**0.44**	**2.5**	**---**
RCG Soil Recreational Trail Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Athletic Field Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Community Park Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street															
SB-4 (10-11)	5/21/2014	mg/kg	<0.088	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	**BDL**
SB-15 (14-15)	5/20/2014	mg/kg	<0.13	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.027	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	**BDL**
SB-17 (14-15)	5/20/2014	mg/kg	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**BDL**
SB-18 (4-6)	5/20/2014	mg/kg	<0.082	**0.0049**	**0.0042**	<0.0041	<0.0041	<0.0041	<0.016	**0.0082**	**0.0049**	**0.025**	**0.014**	**0.0082**	**BDL**
SB-18 (10-11.5)	5/20/2014	mg/kg	<0.13	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.025	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	**BDL**
SB-20 (8-9.5)	5/20/2014	mg/kg	<0.13	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.026	<0.0066	<0.0066	**0.008**	<0.0066	<0.0066	**BDL**
CTP Site # 2: Parking Lot, 555 N. Morton Street															
SB-3 (6-7.5)	5/21/2014	mg/kg	<3.5	**1.6**	**0.8**	**0.2**	**0.27**	**0.19**	<0.70	**0.31**	**1.5**	<0.18	<0.18	<0.18	**BDL**
SB-27 (4-6)	5/20/2014	mg/kg	<0.098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**BDL**
SB-27 (8-10.5)	5/20/2014	mg/kg	<0.11	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.021	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	**BDL**
SB-28 (7-8) ***	6/27/2014	mg/kg	<0.11	**0.04**	**0.057**	**0.014**	**0.044**	<0.0055	<0.022	<0.0055	**0.071**	<0.0055	<0.0055	<0.0055	**BDL**
SB-28 (7-8) DUP ***	6/27/2014	mg/kg	<0.11	**0.024**	**0.033**	**0.011**	**0.03**	<0.0054	<0.022	<0.0054	**0.036**	<0.0054	<0.0054	<0.0054	**BDL**
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street															
SB-2 (2-3.5)	5/19/2014	mg/kg	<0.093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	**BDL**
SB-13 (13-14)	5/19/2014	mg/kg	<0.11	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.023	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	**BDL**
SB-19 (9-10)	5/19/2014	mg/kg	<0.10	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.020	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	**BDL**
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street															
SB-1 (12-13.5)	5/19/2014	mg/kg	<0.094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	**BDL**
SB-9 (12-13)	5/19/2014	mg/kg	**1.3**	<0.013	<0.013	<0.013	**0.21**	**0.40 J**	<0.053	**0.033**	<0.013	<0.013	**0.1**	**0.1**	**BDL**
SB-9 (12-13) DUP	5/19/2014	mg/kg	**0.34**	<0.0065	**0.008**	<0.0065	**0.019**	**0.36**	<0.026	**0.016**	<0.0065	<0.0065	**0.065**	**0.063**	**BDL**
SB-9 (16-17)	5/19/2014	mg/kg	<2.9	<0.14	<0.14	<0.14	<0.14	<0.14	**1.2**	<0.14	<0.14	<0.14	<0.14	<0.14	**BDL**
SB-11 (8-10)	5/21/2014	mg/kg	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**BDL**
SB-12 (6-7)	5/20/2014	mg/kg	<0.13	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.025	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	**BDL**
SB-12 (16-17.5)	5/20/2014	mg/kg	<0.11	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.022	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	**BDL**
SB-23 (12-14)	5/21/2014	mg/kg	<0.14	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.027	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	**BDL**
SB-25 (8-10)	5/19/2014	mg/kg	**0.31**	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.021	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	**BDL**
CTP Site # 5: Vacant Lot, N. Rogers Street															
SB-7 (10-11.5)	5/21/2014	mg/kg	<0.12	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.023	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	**BDL**
SB-7 (4-6)	5/21/2014	mg/kg	<0.11	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	**BDL**
SB-21 (2-4)	5/21/2014	mg/kg	<0.18	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.037	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	**BDL**
SB-21 (8-10)	5/21/2014	mg/kg	<0.13	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.027	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	**BDL**
SB-24 (10-11.5)	5/21/2014	mg/kg	<0.13	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.027	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	**BDL**
TB-1 ***	6/27/2017	mg/kg	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**BDL**
Field Duplicate RPD (SB-9 (12-13') & Dup)**		%	117%	0%	21%	0%	167%	11%	0%	69%	0%	0%	42%	45%	---
Field Duplicate RPD (SB-28 (7-8') & Dup)***		%	0%	50%	53%	24%	38%	0%	0%	0%	65%	0%	0%	0%	---

Notes:

Samples analyzed using EPA-846 Method 8260

mg/kg = milligrams per kilogram

ppm - parts per million

--- No value given in the Remediation Closure Guide

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

*** Samples collected on 06-30-14 from temporary monitoring point (SB-28) installed by Earth Exploration for geotechnical investigation of the CTP performed by Eagle Ridge Civil Engineering Services

Table 2
Soil Sampling Results
SVOCs/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	Other SVOCs
		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	88-06-2
RCG Residential Screening Level*		**mg/kg**	**4800**	**---**	**24000**	**2.1**	**0.2**	**2.1**	**---**	**21**	**210**	**0.21**	**3200**	**3200**	**2.1**	**220**	**370**	**50**	**---**	**2400**	**---**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**33000**	**---**	**100000**	**21**	**2.1**	**21**	**---**	**210**	**2100**	**2.1**	**22000**	**22000**	**21**	**530**	**370**	**180**	**---**	**17000**	**---**
RCG Excavation Screening Level*		**mg/kg**	**55000**	**---**	**100000**	**1300**	**130**	**1300**	**---**	**13000**	**100000**	**130**	**37000**	**37000**	**1300**	**33000**	**370**	**1000**	**---**	**28000**	**---**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**82**	**---**	**860**	**2.1**	**4.7**	**7**	**---**	**68**	**210**	**2.2**	**1400**	**81**	**23**	**1**	**2.8**	**0.092**	**---**	**190**	**---**
RCG Soil Recreational Trail Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**5**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Athletic Field Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**3**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Community Park Screening Level*		**mg/kg**	**---**	**---**	**---**	**---**	**1**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street																					
SB-4 (0-2)	5/21/2014	mg/kg	<0.054	**0.14**	**0.21**	**0.39**	**0.56**	**0.75**	**0.56**	**0.68**	**0.69**	**0.26**	**0.81**	<0.054	**0.49**	**0.072**	**0.077**	**0.082**	**0.66**	**0.69**	**N/A**
SB-15 (7-8)	5/20/2014	mg/kg	**0.016**	<0.0060	**0.028**	**0.046**	**0.047**	**0.038**	**0.028**	**0.04**	**0.048**	**0.0096**	**0.14**	**0.011**	**0.023**	<0.0060	<0.0060	<0.0060	**0.11**	**0.11**	**N/A**
SB-16 (0-2)	5/20/2014	mg/kg	<0.026	<0.026	<0.026	**0.073**	**0.086**	**0.11**	**0.06**	**0.12**	**0.13**	<0.026	**0.17**	<0.026	**0.053**	<0.026	<0.026	<0.026	**0.048**	**0.14**	**N/A**
SB-16 (2-4)	5/20/2014	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	**N/A**
SB-16 (4-6)	5/20/2014	mg/kg	**0.069**	**0.032**	**0.18**	**0.39**	**0.37**	**0.35**	**0.23**	**0.37**	**0.46**	**0.099**	**1.1**	**0.061**	**0.22**	<0.032	<0.032	**0.044**	**0.84**	**0.84**	**N/A**
SB-16 (4-6)	5/20/2014	mg/kg	**2.1**	<2.1	**3.9**	**9.2**	**8.2**	**6.9**	**4**	**10.8**	**10.2**	<1.1	**27**	<2.1	**3.8**	**---**	<2.1	<2.1	**22.9**	**21.4**	**BDL**
SB-16 (6-8)	5/20/2014	mg/kg	**0.0094**	**0.017**	**0.009**	**0.013**	**0.013**	**0.012**	**0.013**	**0.015**	**0.018**	<0.0066	**0.049**	<0.0066	**0.0094**	**0.015**	**0.016**	**0.10**	**0.056**	**0.038**	**N/A**
SB-17 (0-2)	5/20/2014	mg/kg	<0.0060	<0.0060	**0.0069**	**0.02**	**0.023**	**0.022**	**0.018**	**0.023**	**0.026**	**0.0067**	**0.042**	<0.0060	**0.015**	<0.0060	<0.0060	<0.0060	**0.028**	**0.036**	**N/A**
SB-18 (4-6)	5/20/2014	mg/kg	**0.27**	**0.0079**	**0.56**	**0.94**	**0.82**	**0.77**	**0.54**	**0.76**	**1.1**	**0.24**	**3.8**	**0.25**	**0.49**	**0.034**	**0.048**	**0.08**	**3.1**	**2.8**	**N/A**
SB-20 (0-2)	5/20/2014	mg/kg	<0.0053	<0.0053	<0.0053	**0.029**	**0.038**	**0.04**	**0.024**	**0.032**	**0.039**	**0.0099**	**0.052**	<0.0053	**0.021**	<0.0053	<0.0053	<0.0053	**0.016**	**0.048**	**N/A**
CTP Site # 2: Parking Lot, 555 N. Morton Street																					
SB-3 (1-3)	5/21/2014	mg/kg	**0.052**	<0.030	**0.067**	**0.095**	**0.076**	**0.064**	**0.063**	**0.076**	**0.14**	<0.030	**0.27**	**0.053**	**0.041**	**0.11**	**0.12**	**0.14**	**0.36**	**0.22**	**N/A**
SB-26 (1-3)	5/20/2014	mg/kg	<0.028	**0.15**	**0.15**	**0.32**	**0.36**	**0.38**	**0.25**	**0.36**	**0.49**	**0.11**	**0.78**	<0.028	**0.21**	**0.18**	**0.15**	**0.11**	**0.92**	**0.64**	**N/A**
SB-27 (0-2)	5/20/2014	mg/kg	**0.13**	**0.07**	**0.41**	**0.9**	**0.88**	**0.77**	**0.55**	**0.76**	**0.96**	**0.22**	**2.3**	**0.13**	**0.5**	**0.069**	**0.06**	**0.053**	**1.7**	**1.9**	**N/A**
SB-28 (7-8) ***	6/27/2014	mg/kg	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	**N/A**
SB-28 (7-8) DUP ***	6/27/2014	mg/kg	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	<0.0072	**N/A**
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street																					
SB-2 (0-2)	5/19/2014	mg/kg	**0.24**	<0.0061	**0.43**	**0.78**	**0.84**	**0.74**	**0.58**	**0.7**	**0.88**	**0.21**	**1.9**	**0.17**	**0.48**	**0.011**	**0.013**	<0.0061	**1.8**	**2**	**N/A**
SB-12 (0-2)	5/20/2014	mg/kg	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	**N/A**
SB-12 (6-7)	5/20/2014	mg/kg	<0.028	<0.028	<0.028	**0.087**	**0.096**	**0.11**	**0.092**	**0.12**	**0.12**	**0.035**	**0.2**	<0.028	**0.076**	<0.028	**0.028**	<0.028	**0.13**	**0.19**	**N/A**
SB-13 (1-2)	5/19/2014	mg/kg	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	**N/A**
SB-14 (0-2)	5/19/2014	mg/kg	<0.40	<0.40	<0.40	<0.40	<0.21	<0.40	<0.40	<0.40	<0.40	<0.21	<0.40	<0.40	<0.40	**---**	<0.40	<0.40	<0.40	<0.40	**BDL**
SB-14 (0-2)	5/19/2014	mg/kg	<0.030	<0.030	<0.030	<0.030	**0.032**	<0.030	<0.030	<0.030	<0.030	<0.030	**0.05**	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	**0.04**	**N/A**
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street																					
SB-1 (2-4)	5/19/2014	mg/kg	<0.0063	<0.0063	<0.0063	<0.0063	**0.0073**	**0.0085**	**0.0095**	**0.0086**	**0.008**	<0.0063	**0.014**	<0.0063	**0.0074**	<0.0063	<0.0063	<0.0063	**0.0086**	**0.011**	**N/A**
SB-8 (1-3)	5/19/2014	mg/kg	<0.0061	**0.0086**	**0.0071**	**0.015**	**0.02**	**0.023**	**0.026**	**0.022**	**0.02**	**0.0078**	**0.029**	<0.0061	**0.019**	**0.044**	**0.086**	**0.031**	**0.027**	**0.027**	**N/A**
SB-8 (1-3)	5/19/2014	mg/kg	<0.40	<0.40	<0.40	<0.40	<0.21	<0.40	<0.40	<0.40	<0.40	<0.21	<0.40	<0.40	<0.40	**---**	<0.40	<0.40	<0.40	<0.40	**BDL**
SB-9 (0-2)	5/19/2014	mg/kg	**0.34**	**0.14**	**0.89**	**3.3**	**2.8**	**3.2**	**2.2**	**3.6**	**4.1**	**1.1**	**7.7**	**0.13**	**2.1**	**0.44**	**0.34**	**0.51**	**6.4**	**5.9**	**N/A**
SB-9 (4-6)	5/19/2014	mg/kg	**0.73**	**0.32**	**1.7**	**5.1**	**4.4**	**4.4**	**3.5**	**5.2**	**6.2**	**1.6**	**10.5**	**0.3**	**3.1**	**0.54**	**0.43**	**0.74**	**9.1**	**8.7**	**N/A**
SB-11 (0-2)	5/21/2014	mg/kg	**0.0056**	**0.0063**	**0.014**	**0.04**	**0.04**	**0.032**	**0.027**	**0.036**	**0.048**	**0.01**	**0.099**	**0.0063**	**0.023**	**0.021**	**0.021**	**0.019**	**0.066**	**0.081**	**N/A**
SB-19 (9-10)	5/19/2014	mg/kg	**0.027**	**0.024**	**0.11**	**0.27**	**0.37**	**0.36**	**0.26**	**0.34**	**0.32**	**0.12**	**0.52**	**0.043**	**0.23**	**0.064**	**0.065**	**0.044**	**0.43**	**0.46**	**N/A**
SB-22 (1-3)	5/19/2014	mg/kg	<0.044	**0.25**	**0.33**	**0.76**	**0.92**	**1.2**	**0.63**	**1.1**	**1.1**	**0.29**	**1.3**	**0.054**	**0.56**	**0.27**	**0.32**	**0.56**	**1**	**1.1**	**N/A**
SB-22 (1-3)	5/19/2014	mg/kg	<0.39	<0.39	<0.39	<0.39	**0.22**	<0.39	<0.39	<0.39	<0.39	<0.20	<0.39	<0.39	<0.39	**---**	<0.39	<0.39	<0.39	<0.39	**BDL**
SB-23 (1-4)	5/21/2014	mg/kg	**0.067**	**0.069**	**0.18**	**0.53**	**0.49**	**0.5**	**0.31**	**0.46**	**0.58**	**0.17**	**0.9**	**0.05**	**0.3**	**0.013**	**0.013**	**0.012**	**0.52**	**0.77**	**N/A**
SB-23 (1-4) DUP	5/21/2014	mg/kg	**0.026**	**0.062**	**0.092**	**0.36**	**0.48**	**0.38**	**0.51**	**0.38**	**0.42**	**0.17**	**0.61**	**0.022**	**0.4**	**0.013**	**0.013**	**0.013**	**0.27**	**0.54**	**N/A**
SB-23 (1-4)	5/21/2014	mg/kg	<0.37	<0.37	<0.37	**0.42**	**0.47**	**0.43**	<0.37	**0.44**	**0.49**	<0.19	**0.53**	<0.37	<0.37	**---**	<0.37	<0.37	<0.37	**0.64**	**BDL**
SB-23 (1-4) DUP	5/21/2014	mg/kg	<0.33	<0.33	**0.41**	**1**	**0.97**	**0.84**	**0.61**	**0.94**	**1.1**	<0.17	**2.2**	<0.33	**0.55**	**---**	<0.33	<0.33	**1.7**	**1.7**	**BDL**
SB-25 (0-2)	5/19/2014	mg/kg	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	**0.0058**	<0.0056	<0.0056	**0.0064**	<0.0056	**0.0087**	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	**0.01**	**0.007**	**N/A**
SB-25 (0-2)	5/19/2014	mg/kg	<1.9	<1.9	<1.9	<1.9	<0.96	<1.9	<1.9	<1.9	<1.9	<0.96	<1.9	<1.9	<1.9	**---**	<1.9	<1.9	<1.9	<1.9	**BDL**
SB-25 (8-10)	5/19/2014	mg/kg	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	**N/A**
CTP Site # 5: Vacant Lot, N. Rogers Street																					
SB-5 (0-2)	5/21/2014	mg/kg	<0.0062	<0.0062	<0.0062	**0.021**	**0.024**	**0.025**	**0.018**	**0.025**	**0.027**	**0.007**	**0.051**	<0.0062	**0.015**	<0.0062	<0.0062	<0.0062	**0.029**	**0.042**	**N/A**
SB-6 (1-3)	5/21/2014	mg/kg	<0.0061	**0.009**	**0.016**	**0.033**	**0.033**	**0.035**	**0.022**	**0.039**	**0.04**	**0.01**	**0.066**	<0.0061	**0.021**	**0.0099**	**0.013**	**0.022**	**0.098**	**0.056**	**N/A**
SB-7 (4-6)	5/21/2014	mg/kg	**0.022**	**0.028**	**0.044**	**0.064**	**0.073**	**0.11**	**0.082**	**0.11**	**0.084**	**0.023**	**0.1**	**0.027**	**0.073**	**0.067**	**0.085**	**0.1**	**0.11**	**0.096**	**N/A**
SB-21 (2-4)	5/21/2014	mg/kg	**0.0079**	**0.0087**	**0.025**	**0.058**	**0.056**	**0.067**	**0.044**	**0.069**	**0.078**	**0.016**	**0.17**	**0.01**	**0.038**	**0.024**	**0.023**	**0.035**	**0.16**	**0.13**	**N/A**
SB-24 (0-2)	5/21/2014	mg/kg	<0.058	**0.086**	**0.076**	**0.18**	**0.200**	**0.19**	**0.17**	**0.21**	**0.24**	**0.059**	**0.38**	<0.058	**0.13**	**0.07**	**0.085**	**0.09**	**0.29**	**0.33**	**N/A**
SB-24 (0-2)	5/21/2014	mg/kg	<0.38	<0.38	<0.38	<0.38	<0.20	<0.38	<0.38	<0.38	<0.38	<0.20	<0.38	<0.38	<0.38	**---**	<0.38	<0.38	<0.38	<0.38	**BDL**
Field Duplicate RPD (SB-23 (1-4') & Dup)**		%	88%	11%	65%	38%	2%	27%	49%	19%	32%	0%	38%	78%	29%	0%	0%	8%	63%	35%	0%
Field Duplicate RPD (SB-23 (1-4') & Dup)**		%	0%	0%	76%	82%	69%	65%	107%	72%	77%	0%	122%	0%	99%	0%	0%	0%	161%	91%	0%

Notes:

Samples analyzed using EPA SW-846 Method 8270 SIM

mg/kg = milligrams per kilogram

ppm - parts per million

PAH = Poly Aromatic Hydrocarbon

--- No value given in the Remediation Closure Guide

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

*** Samples collected on 06-30-14 from temporary monitoring point (SB-28) installed by Earth Exploration for geotechnical investigation of the CTP performed by Eagle Ridge Civil Engineering Services

Table 3
Soil Sampling Results
Metals

Sample ID	Collected Date	Units	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium III	Chromium VI	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	16065-83-1	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 Screening Level*		**mg/kg**	**43**	**8.5**	**21000**	**220**	**98**	**100000**	**4.1**	**---**	**4300**	**400**	**3.1**	**2100**	**550**	**550**	**1.1**	**32000**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**410**	**24**	**100000**	**2000**	**800**	**100000**	**56**	**---**	**41000**	**800**	**3.1**	**20000**	**5100**	**5100**	**10**	**100000**
RCG Excavation Screening Level*		**mg/kg**	**690**	**640**	**100000**	**3300**	**1300**	**100000**	**2400**	**---**	**69000**	**1000**	**3.1**	**32000**	**8600**	**8600**	**17**	**100000**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**5.4**	**5.9**	**1700**	**63**	**---**	**1000000**	**0.12**	**1000000**	**920**	**270**	**2.1**	**17000**	**5.3**	**12**	**2.9**	**---**
RCG Soil Recreational Trail Screening Level*		**mg/kg**	**---**	**390**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**800**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Athletic Field Screening Level*		**mg/kg**	**---**	**110**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**800**	**---**	**---**	**---**	**---**	**---**	**---**
RCG Soil Rec Community Park Screening Level*		**mg/kg**	**---**	**40**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**800**	**---**	**---**	**---**	**---**	**---**	**---**
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street																		
SB-4 (0-2)	5/21/2014	mg/kg	2.2	11.4	186	1.1	0.98	---	---	11.2	42.8	170	0.5	15	<0.91	<0.46	1.2	214
SB-15 (7-8)	5/20/2014	mg/kg	<1.1	10.4	73.7	0.55	<0.55	---	---	21.4	12.1	15.2	<0.23	13.2	<2.2	<0.55	<1.1	50.6
SB-16 (4-6)	5/20/2014	mg/kg	<1.2	6.3	493	1.5	3.1	---	---	8.2	43.5	76.6	<0.25	28	<1.2	<0.60	1.7	156
SB-17 (0-2)	5/20/2014	mg/kg	<1.1	14	96.9	0.6	<0.56	---	---	27.6	13.5	16	<0.25	16	<1.1	<0.56	<1.1	62.2
SB-18 (4-6)	5/20/2014	mg/kg	<1.1	8.9	139	0.82	<0.53	---	---	19.6	17.5	46.5	<0.22	20.4	<1.1	<0.53	<1.1	107
SB-20 (0-2)	5/20/2014	mg/kg	<1.0	3.2	20	<0.50	<0.50	---	---	7.5	5.9	5.3	<0.21	8	<1.0	<0.50	<1.0	34.5
CTP Site # 2: Parking Lot, 555 N. Morton Street																		
SB-3 (1-3)	5/21/2014	mg/kg	<1.1	13.9	540	3.6	<0.57	---	---	12.4	47.2	67.9	<0.25	28.4	<1.1	<0.57	2.5	110
SB-26 (1-3)	5/20/2014	mg/kg	<0.96	6.9	225	1.6	0.84	---	---	9.9	30.4	31.5	<0.23	25.3	<0.96	<0.48	1.6	99.5
SB-27 (0-2)	5/20/2014	mg/kg	<1.2	10.4	241	1.4	0.86	---	---	13	22.5	44.7	<0.25	16.6	<1.2	<0.58	1.2	79.4
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street																		
SB-2 (0-2)	5/19/2014	mg/kg	<1.2	10.2	76.2	<0.60	<0.60	---	---	12.7	10.1	15	<0.26	8.8	<1.2	<0.60	<1.2	17.6
SB-12 (0-2)	5/20/2014	mg/kg	<0.96	7.6	88.6	0.5	<0.48	---	---	17.9	12.3	13.8	<0.24	11.7	<0.96	<0.48	<0.96	36.7
SB-12 (0-2) DUP	5/20/2014	mg/kg	<1.1	9.4	99.5	<0.55	<0.55	---	---	18.6	13.3	15.7	<0.23	11.9	<1.1	<0.55	<1.1	40.6
SB-12 (6-7)	5/20/2014	mg/kg	<1.1	18.9	173	<0.56	0.69	---	---	16.4	54.8	31.4	<0.23	12.4	<1.1	<0.56	<1.1	101
SB-13 (1-2)	5/19/2014	mg/kg	<1.1	4.3	60.1	<0.55	<0.55	---	---	18.3	11.4	11.1	<0.23	11.4	<1.1	<0.55	<1.1	36.8
SB-14 (0-2)	5/19/2014	mg/kg	<1.2	12.9	89.1	0.7	<0.58	---	---	31.2	14.7	18.7	<0.24	17.4	<1.2	<0.58	<1.2	62.2
SB-14 (0-2) DUP	5/19/2014	mg/kg	<1.2	12.5	85.9	0.66	<0.60	---	---	27.3	15	19.5	<0.25	16.6	<1.2	<0.60	<1.2	61.5
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street																		
SB-1 (2-4)	5/19/2014	mg/kg	<1.1	10.3	89.4	1.4	<0.55	---	---	26.3	11	16.7	<0.25	21.4	<1.1	<0.55	<1.1	45.7
SB-8 (1-3)	5/19/2014	mg/kg	<1.2	11.5	316	2.2	11.4	---	---	12.3	94.6	98.3	<0.24	26.4	<1.2	<0.60	1.7	390
SB-9 (0-2)	5/19/2014	mg/kg	<1.1	4.5	85.7	<0.53	8.5	---	---	10.5	25.7	44.5	<0.21	8.2	<1.1	<0.53	<1.1	200
SB-11 (0-2)	5/21/2014	mg/kg	<0.95	7.2	201	1.3	<0.47	---	---	9.6	23.3	58.7	<0.21	14.4	<0.95	<0.47	1.1	108
SB-19 (9-10)	5/19/2014	mg/kg	<1.1	15.8	316	1.9	0.78	---	---	11.5	32.9	43.9	<0.24	20.7	<1.1	<0.56	2.4	174
SB-22 (0-1)	5/19/2014	mg/kg	---	15.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-22 (1-3)	5/19/2014	mg/kg	<1.1	30.7	112	0.95	0.93	---	---	8.6	25.5	32.5	<0.25	24.3	<1.1	<0.53	<1.1	145
SB-22 (3-4)	5/19/2014	mg/kg	---	27.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-22 (4-6)	5/19/2014	mg/kg	---	6.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-23 (1-4)	5/21/2014	mg/kg	<1.0	11.1	261	1.5	0.65	---	---	9.1	24.4	28.4	<0.23	17.8	<1.0	1.1	1.2	76.7
SB-25 (0-2)	5/19/2014	mg/kg	<1.1	3.8	69.1	<0.53	0.77	---	---	8.3	13	50	<0.23	9.2	<1.1	<0.53	<1.1	81.7
CTP Site # 5: Vacant Lot, N. Rogers Street																		
SB-5 (0-2)	5/21/2014	mg/kg	<1.2	11.4	100	<0.58	<0.58	---	---	21.3	15.3	14.8	<0.25	12.4	<1.2	<0.58	<1.2	46.7
SB-5 (0-2) DUP	5/21/2014	mg/kg	<1.2	11.4	78.1	<0.59	<0.59	---	---	27.4	16	12.4	<0.24	11.2	<1.2	<0.59	<1.2	37.1
SB-6 (1-3)	5/21/2014	mg/kg	<1.2	6.7	90	0.65	<0.60	---	---	13.1	8.2	16.4	<0.23	13.7	<2.4	<0.60	<1.2	48.7
SB-7 (4-6)	5/21/2014	mg/kg	<1.2	7.3	189	1	<0.61	---	---	13.2	10	26.6	<0.25	15.4	<2.5	<0.61	<1.2	40.3
SB-21 (2-4)	5/21/2014	mg/kg	<1.3	14.9	849	2.2	0.66	---	---	9.8	25.2	23.8	<0.27	20.5	<1.3	<0.64	1.9	57.3
SB-24 (0-2)	5/21/2014	mg/kg	1.4	10.3	156	0.77	9	---	---	13.9	139	432	<0.23	22.1	<1.1	<0.56	1.9	934
Field Duplicate RPD (SB-5 (0-2') & Dup)**		%	0%	0%	25%	0%	0%			25%	4%	18%	0%	10%	0%	0%	0%	23%
Field Duplicate RPD (SB-12 (0-2') & Dup)**		%	0%	21%	12%	0%	0%			4%	8%	13%	0%	2%	0%	0%	0%	10%
Field Duplicate RPD (SB-14 (0-2') & Dup)**		%	0%	3%	4%	6%	0%			13%	2%	4%	0%	5%	0%	0%	0%	1%

Notes:

Samples analyzed using EPA Method 6010, Method 7471, & Method 7196A

mg/kg = milligrams per kilogram

ppm - parts per million

--- No value given in the Remediation Closure Guide

1. Limits shown for Chromium VI unless analysis is speciated between Chromium VI and Total Chromium

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

Table 4
Soil Sampling Results
PCBs

Sample ID	Collected Date	Units	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
		CAS Number	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5
RCG Residential Screening Level*		**mg/kg**	**5.5**	**2**	**2**	**3.1**	**3.1**	**1.5**	**3.1**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**37**	**5.4**	**5.4**	**7.4**	**7.4**	**7.4**	**7.4**
RCG Excavation Screening Level*		**mg/kg**	**63**	**390**	**73**	**460**	**460**	**18**	**460**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**2.1**	**0.015**	**0.015**	**1.1**	**1**	**1.6**	**4.8**
RCG Soil Recreational Trail Screening Level*		**mg/kg**	---	---	---	---	---	---	---
RCG Soil Rec Athletic Field Screening Level*		**mg/kg**	---	---	---	---	---	---	---
RCG Soil Rec Community Park Screening Level*		**mg/kg**	---	---	---	---	---	---	---
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street									
SB-10 (0-2)	5/20/2014	mg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street									
SB-8 (1-3)	5/19/2014	mg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
SB-8 (1-3) DUP	5/19/2014	mg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
SB-9 (0-2)	5/19/2014	mg/kg	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Field Duplicate RPD (SB-8 (1-3') & Dup)**		%	0%	0%	0%	0%	0%	0%	0%

Notes:

Samples analyzed using EPA Method 8082A

mg/kg = milligrams per kilogram

ppm - parts per million

PCB = Polychlorinated Biphenyl

--- No value given in the Remediation Closure Guide

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

Table 5
Soil Sampling Results
Herbicides

Sample ID	Collected Date	Units	2,4-D	2,4,5-T	2,4,5-TP (Silvex)
		CAS Number	94-75-7	93-76-5	93-72-1
RCG Residential Screening Level*		**mg/kg**	**970**	**850**	**690**
RCG Commercial/Industrial Screening Level*		**mg/kg**	**7700**	**6200**	**4900**
RCG Excavation Screening Level*		**mg/kg**	**13000**	**10000**	**8200**
RCG Soil Migration to GW Screening Level*		**mg/kg**	**0.36**	**0.99**	**0.55**
RCG Soil Recreational Trail Screening Level*		**mg/kg**	**--**	**--**	**--**
RCG Soil Rec Athletic Field Screening Level*		**mg/kg**	**--**	**--**	**--**
RCG Soil Rec Community Park Screening Level*		**mg/kg**	**--**	**--**	**--**
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street					
SB-16 (4-6)	5/20/2014	mg/kg	<0.827	<0.827	<0.827
SB-16 (4-6) DUP	5/20/2014	mg/kg	<0.0866	<0.0866	<0.0866
CTP Site # 2: Parking Lot, 555 N. Morton Street					
SB-26 (1-3)	5/20/2014	mg/kg	<0.0727	<0.0727	<0.0727
CTP Site # 3: Former Print Services Building, 638 N. Rogers Street					
SB-14 (0-2)	5/19/2014	mg/kg	<0.0805	<0.0805	<0.0805
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street					
SB-22 (1-3)	5/19/2014	mg/kg	**0.114**	<0.0786	<0.0786
SB-23 (1-4)	5/21/2014	mg/kg	<0.0719	<0.0719	<0.0719
SB-25 (0-2)	5/19/2014	mg/kg	<0.0731	<0.0731	<0.0731
CTP Site # 5: Vacant Lot, N. Rogers Street					
SB-24 (0-2)	5/21/2014	mg/kg	<0.0759	<0.0759	<0.0759
Field Duplicate RPD (SB-16 (4-6') & Dup)**		%	0%	0%	0%

Notes:

Samples analyzed using EPA Method 8151A

mg/kg = milligrams per kilogram

ppm - parts per million

--- No value given in the Remediation Closure Guide

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Table 6
Groundwater Sampling Results
VOCs

Sample ID	Collected Date	Units	Acetone	Benzene	Bromobenzene	Chloroethane	Chloroform	Dichlorodifluoromethane	trans-1,2-Dichloroethene	Ethylbenzene	n-Hexane	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylene (Total)	Other VOCs
		CAS Number	67-64-1	71-43-2	108-86-1	75-00-3	67-66-3	75-71-8	156-60-5	100-41-4	110-54-3	75-09-2	1634-04-4	91-20-3	103-65-1	127-18-4	108-88-3	79-00-5	79-01-6	75-69-4	75-01-4	1330-20-7	1330-20-7
RCG Residential Groundwater Screening Level *		ug/L	12000	5	54	21000	80	190	100	700	250	5	120	1.4	530	5	1000	5	5	1100	2	10,000	---
Vapor Exposure GW Screening Level - Residential		ug/L	---	24	---	---	---	---	---	---	---	---	---	91	---	110	---	11	9.1	---	2	---	---
Vapor Exposure GW Screening Level - Com/Ind		ug/L	---	120	---	---	---	---	---	---	---	---	---	460	---	470	---	46	38	---	35	---	---
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street																							
SB-GW-4	5/26/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-15	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-17	5/26/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-18	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	**180**	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**108**	<2.0	<10.0	**BDL**
SB-GW-20	5/24/2014	ug/L	**101**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**	<2.0	<10.0	**BDL**
CTP Site # 2: Parking Lot, 555 N. Morton Street																							
SB-GW-3	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	**5.9**	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-3 DUP	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-27	5/22/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-28 ***	6/30/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-28 DUP ***	6/30/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street																							
SB-GW-13	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street																							
SB-GW-1	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	**17.4**	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-9	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-11	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-23	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-25	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
CTP Site # 5: Vacant Lot, N. Rogers Street																							
SB-GW-7	5/27/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
SB-GW-24	5/27/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
EB-1	5/23/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
EB-2	5/24/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
EB-3	5/26/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
TB - WATER	5/22/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
EB-1 ***	6/30/2014	ug/L	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<10.0	**BDL**
Field Duplicate RPD (SB-GW-3 & Dup)**		%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	81%	0%	0%	0%	0%	0%	0%	0%	**BDL**
Field Duplicate RPD (SB-GW-28 & Dup)**		%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**BDL**

Notes:

Samples analyzed using EPA-846 Method 8260

ug/L = micrograms per liter

ppb - parts per billion

--- No value given in the Remediation Closure Guide

BDL = Below Detection Limit

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

*** Samples collected on 06-30-14 from temporary monitoring point (SB-28) installed by Earth Exploration

for geotechnical investigation of the CTP performed by Eagle Ridge Civil Engineering Services

Table 7
Groundwater Sampling 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	400	---	1300	0.29	0.2	0.29	---	2.9	29	0.029	630	220	0.29	9.7	27	1.4	---	87
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street																				
SB-GW-4	5/26/2014	ug/L	<1.1	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.53	<0.11	<1.1	<1.1	<0.11	<1.1	<1.1	<1.1	<1.1	<1.1
SB-GW-15	5/24/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-17	5/26/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-18	5/24/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-20	5/26/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
CTP Site # 2: Parking Lot, 555 N. Morton Street																				
SB-GW-3	5/26/2014	ug/L	<1.1	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.56	<0.11	<1.1	<1.1	<0.11	**1.1**	<1.1	**1.1**	<1.1	<1.1
SB-GW-3 DUP	5/26/2014	ug/L	<1.3	<1.3	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.67	<0.13	<1.3	<1.3	<0.13	<1.3	<1.3	**1.3**	<1.3	<1.3
SB-GW-27	5/22/2014	ug/L	<1.0	<1.0	**0.25**	**0.24**	**0.26**	**0.18**	**0.16**	**0.27**	<0.50	<0.10	<1.0	<1.0	**0.12**	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-28 ***	6/30/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-28 DUP ***	6/30/2014	ug/L	<1.1	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.56	<0.11	<1.1	<1.1	<0.11	<1.1	<1.1	<1.1	<1.1	<1.1
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street																				
SB-GW-13	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street																				
SB-GW-1	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-9	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-11	5/24/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-23	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-25	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
CTP Site # 5: Vacant Lot, N. Rogers Street																				
SB-GW-7	5/27/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
SB-GW-24	5/27/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
EB-1	5/23/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
EB-2	5/24/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
EB-3	5/26/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
EB-1 ***	6/30/2014	ug/L	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.10	<1.0	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0
Field Duplicate RPD (SB-GW-3 & Dup)**		%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	51%	0%	17%	0%	0%
Field Duplicate RPD (SB-GW-28 & Dup)**		%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Samples analyzed using EPA-846 Method 8270 SIM

ug/L = micrograms per liter

ppb - parts per billion

--- No value given in the Remediation Closure Guide

BDL = Below Detection Limit

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

*** Samples collected on 06-30-14 from temporary monitoring point (SB-28) installed by Earth Exploration for geotechnical investigation of the CTP performed by Eagle Ridge Civil Engineering Services

Table 8
Groundwater Sampling Results
Metals

Sample ID	Collected Date	Units	Antimony	Arsenic	Arsenic, Dissolved	Barium	Beryllium	Beryllium, Dissolved	Cadmium	Chromium VI	Chromium (Total)	Chromium , Dissolved	Copper	Lead	Lead, Dissolved	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		CAS Number	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-41-7	7440-41-7	7440-43-9	18540-29-9	7440-47-3	7440-47-3	7440-50-8	7439-92-1	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	10	2000	4	4	---	0.31	100	100	1300	15	15	2	300	50	71	2	4700
CTP Site # 1: Former IU Food Storage Building, 600 N. Rogers Street																					
SB-GW-4	5/26/2014	ug/L	<6.0	<10.0	---	**474**	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
SB-GW-4 DUP	5/26/2014	ug/L	<6.0	<10.0	---	**482**	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
SB-GW-15	5/24/2014	ug/L	<6.0	<10.0	---	**335**	<4.0	---	<2.0	---	**14.4**	---	**14.4**	**18.9**	**1.4**	<2.0	**23.7**	<10.0	<10.0	<2.0	**73.5**
SB-GW-17	5/26/2014	ug/L	<6.0	**21.4**	<1.0	**410**	<4.0	<1.0	<2.0	<10.0	**45.7**	**2.4**	**41.7**	**33**	**2.5**	<2.0	**50.3**	<10.0	<10.0	<2.0	**129**
SB-GW-18	5/24/2014	ug/L	<6.0	<10.0	<1.0	**88.2**	<4.0	<1.0	<2.0	<10.0	<10.0	<1.0	<10.0	<10.0	<1.0	<2.0	**18.6**	<10.0	<10.0	<2.0	**25.4**
CTP Site # 2: Parking Lot, 555 N. Morton Street																					
SB-GW-3	5/26/2014	ug/L	<6.0	**38.8**	<1.0	**1070**	**6.3**	<1.0	<2.0	---	**110**	**1.5**	**52.2**	**64.8**	**2.3**	<2.0	**94.6**	<10.0	<10.0	<2.0	**232**
SB-GW-27	5/22/2014	ug/L	<6.0	**52**	**2.3**	**1410**	**4.7**	<1.0	**5.1**	<10.0	**80.6**	**2.1**	**156**	**290**	**11.7**	<2.0	**98.4**	<10.0	<10.0	<2.0	**1030**
CTP Site # 3: Former IU Printing Services Building, 638 N. Rogers Street																					
SB-GW-13	5/23/2014	ug/L	<6.0	<10.0	---	**50.2**	<4.0	---	<2.0		<10.0	---	<10.0	<10.0	---	<2.0	**21.4**	<10.0	<10.0	<2.0	**36.3**
CTP Site # 4: Former Showers Kiln & Dimension Mill, 333 & 335 W. 11th Street																					
SB-GW-1	5/23/2014	ug/L	<6.0	<10.0	---	**129**	<4.0	---	<2.0	---	<10.0	---	<10.0	**10**	---	<2.0	<10.0	<10.0	<10.0	<2.0	**32.3**
SB-GW-9	5/23/2014	ug/L	<6.0	**27.1**	**14.3**	**1080**	<4.0	---	<2.0	---	**17.9**	<1.0	<10.0	**22.8**	**1.2**	<2.0	**22.5**	<10.0	<10.0	<2.0	**67**
SB-GW-11	5/24/2014	ug/L	<6.0	<10.0	---	**126**	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	**28.6**
SB-GW-23	5/23/2014	ug/L	<6.0	<10.0	---	**278**	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	**11.9**	<10.0	<10.0	<2.0	**34.1**
SB-GW-25	5/23/2014	ug/L	<6.0	**11.7**	**1.1**	**622**	<4.0	---	<2.0	---	**15**	---	**15.3**	**15.1**	**2.7**	<2.0	**14.1**	<10.0	<10.0	<2.0	**50.5**
CTP Site # 5: Vacant Lot, N. Rogers Street																					
SB-GW-7	5/27/2014	ug/L	<6.0	<10.0	<1.0	**74**	<4.0	<1.0	<2.0	<10.0	<10.0	<1.0	<10.0	<10.0	<1.0	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
SB-GW-24	5/27/2014	ug/L	<6.0	<10.0	---	**132**	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	**26.1**
EB-1	5/23/2014	ug/L	<6.0	<10.0	---	<10.0	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
EB-2	5/24/2014	ug/L	<6.0	<10.0	---	<10.0	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
EB-3	5/26/2014	ug/L	<6.0	<10.0	---	<10.0	<4.0	---	<2.0	---	<10.0	---	<10.0	<10.0	---	<2.0	<10.0	<10.0	<10.0	<2.0	<20.0
Field Duplicate RPD (SB-GW-4 & Dup)**		%	0%	0%	---	2%	0%	---	0%	---	0%	---	0%	0%	---	0%	0%	0%	0%	0%	0%

Notes:

Samples analyzed using EPA Method 6010, 6020, Method 7471, & Method 7196A

ug/L = micrograms per liter

ppb - parts per billion

--- No value given in the Remediation Closure Guide

1. Limits shown for Chromium VI unless analysis is speciated between Chromium VI and Total Chromium

* Remediation Closure Guide, Appendix A, Table A-6: Screening Level Summary Table - 03/2014

**RPD = relative percent difference = ABS((X-Y)/((X+Y)/2)) --- if both values are below Reporting Limit, then the RPD is considered 0%

If only one of the values is below the reporting limit, the value used in the RPD calculation is "1/2 the reporting limit"

Detection limits shown in this table are Method Detection Limits (MDLs) not Reporting Limits (RLs); for RLs see laboratory reports

Appendix A

Sampling and Analysis Plan &
Health and Safety Plan

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

SAMPLING AND ANALYSIS PLAN
PHASE II ENVIRONMENTAL SITE ASSESSMENT
Site 1 – Former Indiana University Food Storage Building
600 N. Rogers Street
Certified Technology Park
Bloomington, Indiana 47404
Cooperative Agreement # BF00E0127-0
Bruce Carter Associates, LLC
April 18, 2014

1.0 BACKGROUND AND PURPOSE

The Former Indiana University Food Storage Building, located at 600 N. Rogers Street, is part of the Bloomington Certified Technology Park (CTP). The site was referred to in its eligibility determination request (EDR) as Former Indiana University Food Service Building. The Site consists of all or parts of four (4) parcels totaling approximately 4.1 acres of land located in the City of Bloomington, Indiana (Figure 1). The area is mixed commercial, residential, and light industrial land. The Site is in the process of being demolished, and no structures remain with the exception of some concrete footers and slabs.

A Phase I Environmental Site Assessments (ESA) was completed on the Subject Site for Mrs. Danise Alano-Martin, Economic and Sustainable Development Director, City of Bloomington by Bruce Carter Associates, LLC (BCA), dated March 4, 2014.

The Phase I ESA identified the following recognized environmental conditions (RECs):

<u>Subject Site – Former IU Food Storage Building, 600 N. Rogers Street</u>
The historic operation of the Subject Site as part of a large scale furniture factory for over 50 years, a university storage warehouse for over 10 years, and a university food storage building for nearly 30 years including:

- potential historical releases of glues, varnishes, stains, paints, dyes, oils, solvents, veneers, wood treatments, or other chemicals associated with furniture manufacturing;

- evidence of former rail spurs on the property with the possibility for historical releases of petroleum products, solvents, paints, varnishes, and coal ash & cinders;

- presence of numerous floor drains with staining observed around them in the facility mechanical room and numerous containers of maintenance chemicals including compressor oils, gear oils, refrigerant additives, anti-foaming agents, and chlorinating agents staged in close proximity;

- six (6) potential hydraulic leveling units and a large trench drain with minor to heavy oily staining visible along its length observed in the truck dock/well area; and

- presence of a pad-mounted electrical transformer observed on the northwest corner of the property with no labels indicating PCB status.

Former IU Printing Services Building, 638 N. Rogers Street
The historic operation of this site as part of a large scale furniture factory for over 50 years and as university printing facility for nearly 30 years including:

- Potential historical releases of glues, varnishes, stains, paints, dyes, oils, solvents, veneers, wood treatments, or other chemicals associated with furniture manufacturing; and

- Historical use, storage, & disposal of solvents, inks, and other chemicals associated with commercial off-set printing;

Former Indiana University (IU) Showers Warehouse, 11th Street between Morton and Rogers Streets
The historic use of this facility as a former permitted hazardous waste storage facility from 1982 to 1995 for hazardous wastes generated by Indiana University including: liquid and solid radioactive materials; PCB wastes (light ballasts); hazardous chemicals including solvents, flammables, and shock sensitive materials; non-regulated oil wastes; chemically-contaminated items (paper towels, rubber gloves, etc.); and waste photopaper.

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).

2.1 Phase II Environmental Site Assessment

The potential environmental concerns identified in the Phase I ESAs include the industrial nature and history of the site; including the historic use, storage, and disposal of chemicals associated with furniture manufacturing, storage building operation and maintenance, former rail spurs, and potential off-site sources.

2.1.1 Soil/Groundwater Boring Investigation

Boring and well logs for the area around the Subject Site indicate shallow bedrock commonly encountered at depths between 8 and 15 feet below ground surface. A total of five (5) soil probes will be driven to bedrock (refusal), groundwater, or to a maximum depth of twenty (20) feet throughout the site. In addition, a total of two (2) shallow probes will be driven to a depth of eight (8) feet to sample soils in the former rail spur right-of-way and near the former electrical transformer. The probes will be placed on the site as indicated on the attached site map (Figure 1).

Note: RECs from potential up-gradient and adjoining sources will be addressed in the SAP developed for the CTP Site #3 - Former Indiana University Printing Services Building site, and in the SAP developed for the CTP Site #4 - Former Showers Kiln and Dimension Mill site.

<u>Soil/Groundwater Probes</u>
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 one soil sample from each probe will be analyzed for VOCs, PAHs, and 14 metals. If soil screening does not suggest the presence of contamination, then the first soil sample below the potential source from designated probes will be selected for analysis for PAHs and metals as indicated.

Deeper soil samples (2-4, 4-6, 6-8 feet etc.) from each probe will also be collected and retained for potential follow-up analysis for PAHs and metals including hexavalent chromium (Cr VI) at locations where original soil samples collected exceed the screening levels. Up to one (1) deeper sample may be analyzed for PAHs and up to one (1) for four metals and/or Cr VI, each to determine the depth of impact or whether contaminants are migrating from

shallow soils.

Shallow Soil Probes

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 one soil sample from each probe will be analyzed for SVOCs or PAHs, 14 metals, and herbicides. One shallow soil probe (SB-10) will be sampled for PCBs only. If soil screening does not suggest the presence of contamination, then the 0-2 foot interval from designated probes will be selected for analysis as indicated.

- Two (2) probes will be located to assess potential releases from floor drains, trench drains, and potential hydraulic dock levelers in the former mechanical room and truck dock (SB-18 & SB-20);

- One (1) probe will be located to assess potential releases from former furniture manufacturing operations (SB-15);

- One (1) probe will be located to assess potential releases from a former electrical transformer (SB-10); and

- Two (2) probes will be located to assess potential releases from a former rail spur/rail loading area (SB-16, & SB-17).

- One (1) probe (SB-4) will be located to assess potential releases along the W. 10th Street right-of-way (ROW).

Due to the historical industrial activity and the relatively wide range of potential concerns most soil samples will be analyzed for VOCs, PAHs, and 14 Metals. If total chromium is reported, then up to one (1) soil sample will be analyzed for Cr VI.

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 described below. Groundwater samples will be analyzed for VOCs, PAHs, and 14 metals. Filtered groundwater samples will also be collected and up to one (1) will be analyzed for up to four (4) metals that exceed the groundwater screening levels in the unfiltered samples. If total chromium is reported, up to one (1) groundwater samples will be analyzed for Cr VI.

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).

The probes will be advanced by means of direct push probing. Probes will be sampled continuously by utilizing 4-foot long macro-bore rods equipped with an acetate inner liner. Soil samples will be screened in the field with a photo-ionization detector (PID) and logged in accordance with the Unified Soil Classification System (USCS) soil classification system. Field evidence of contamination (PID, olfactory or staining) will be noted. Soil samples selected for laboratory analysis will, in general, be the most likely to be impacted based on the field screening results, position in the soil column or other evidence of contamination.

Locally, the groundwater flow is likely to be to the south-southeast towards Clear Creek, located approximately 0.7 mile southeast of the Subject Site. Assuming local flow follows surface contours, then shallow groundwater flow would be to the south. It is anticipated the top of the groundwater surface will be encountered approximately 8 feet below ground surface. If groundwater is not initially apparent, the boring will be allowed to set overnight and checked again to determine if groundwater has accumulated. Groundwater samples will be collected by use of temporary 1" PVC sampling points with 5' screen, placed in selected boreholes. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (revised November 3, 2009) 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.

All probe locations will be located by means of a mapping grade (<1 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 one (1) 55-gallon drum.

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.
PAHs = polynuclear aromatic hydrocarbons. Analysis by EPA Method 8270SIM.
SVOCs = semivolatile organic compounds. Analysis by EPA Method 8270
14 Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Analysis by EPA Method 6010B, 245.1/7470A.
PCBs = polychlorinated biphenyls. Analysis by EPA Method 8082.
CrVI = hexavalent chromium. Analysis by EPA Method SW-846/7196A
Herbicides. Analysis by EPA Method 8151

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 guidance. Equipment blanks will be collected for this project if samples are collected with non-disposable equipment and will include one (1) for each day of groundwater sampling. One (1) trip blanks 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. Matrix spikes and matrix spike duplicates (MS/MSD) are collected at a rate of one (1) per 20 investigative samples per sample matrix. For this project, one (1) equipment blank for the groundwater sampling equipment, one (1) duplicate sample, and one (1) MS/MSD sample will be collected for groundwater; and one (1) duplicate sample and one (1) MS/MSD sample 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 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. To the extent that they are relevant, the results of investigations also being conducted on off-site upgradient potential sources will be summarized in this report. 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 $21,730 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.

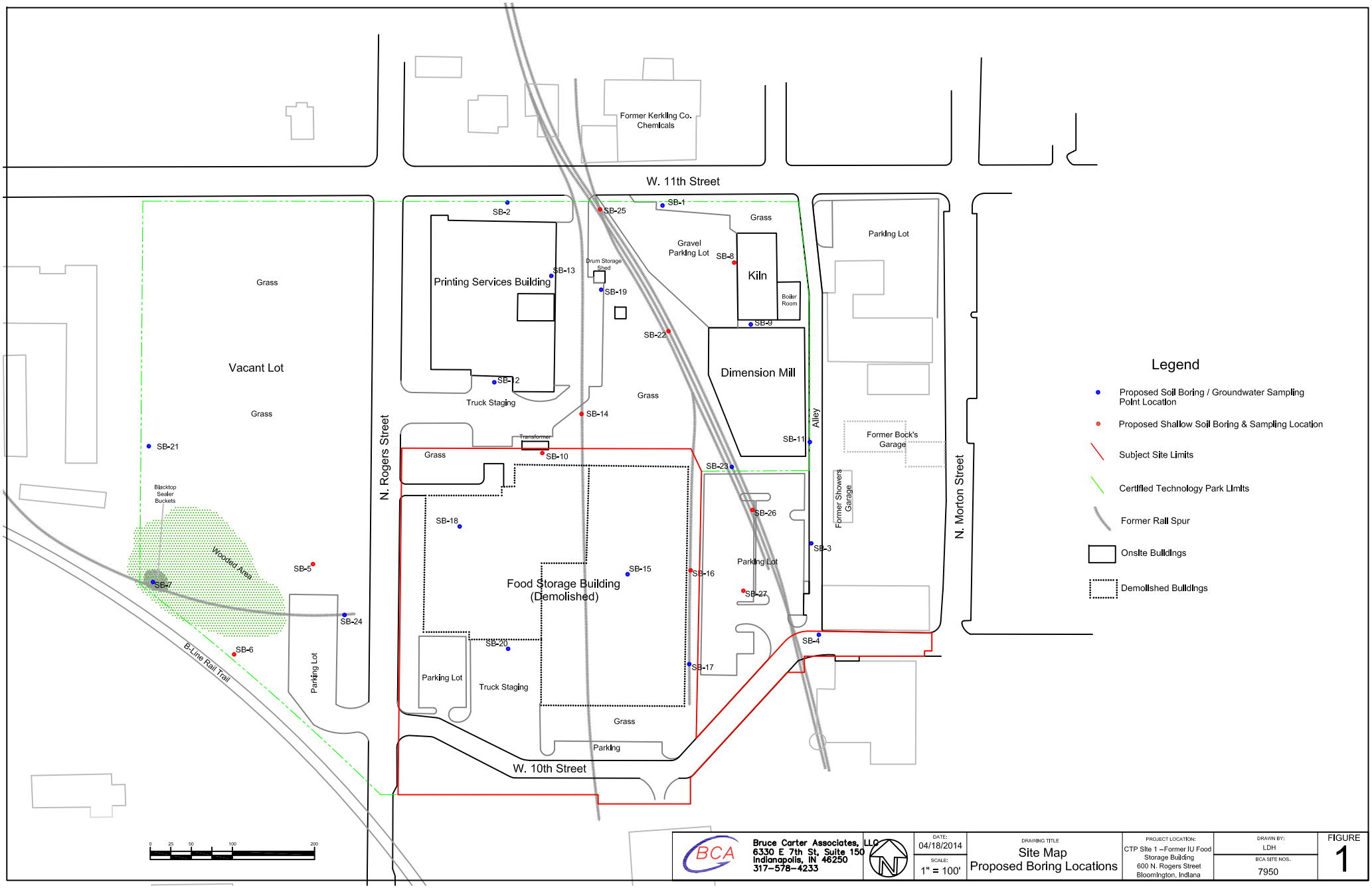

Former Kerkling Co. Chemicals
W. 11th Street
SB-1
SB-2
SB-25
Grass
Gravel Parking Lot
SB-8
Kiln
Boiler Room
Parking Lot
Printing Services Building
SB-13
Drum Storage Shed
SB-19
SB-9
SB-22
Dimension Mill
Grass
Vacant Lot
Grass
SB-12
Truck Staging
SB-14
Grass
Transformer
SB-10
SB-11
Alley
Former Bock's Garage
SB-21
Blacktop Sealer Buckets
SB-23
Former Showers Garage
N. Morton Street
N. Rogers Street
SB-18
SB-26
SB-3
Wooded Area
SB-5
SB-15
SB-16
Parking Lot
SB-7
Food Storage Building (Demolished)
SB-27
SB-24
SB-4
SB-20
SB-6
B-Line Rail Trail
Parking Lot
Parking Lot
Truck Staging
SB-17
Grass
Parking
W. 10th Street
Legend
Proposed Soil Boring / Groundwater Sampling Point Location
Proposed Shallow Soil Boring & Sampling Location
Subject Site Limits
Certified Technology Park Limits
Former Rail Spur
Onsite Buildings
Demolished Buildings
0 25 50 100 200
BCA
Bruce Carter Associates, LLC
6330 E 7th St, Suite 150
Indianapolis, IN 46250
317-578-4233
DATE: 04/18/2014
SCALE: 1" = 100'
DRAWING TITLE
Site Map
Proposed Boring Locations
PROJECT LOCATION:
CTP Site 1 –Former IU Food Storage Building
600 N. Rogers Street
Bloomington, Indiana
DRAWN BY: LDH
BCA SITE NOS. 7950
FIGURE 1

TABLE 1
ANALYSIS SUMMARY
Phase II ESA

CTP Site 1
Bloomington, IN

Sampling Type	No. of Samples	MS/MSD	Equip. Blank	Duplicate	Total Samples	Analysis	Containers	Preservatives	Holding Times
Soil	5	1	0	1	**7**	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
	1	1	1	1	**4**	SVOCs/PAHs 8270	4-ounce Glass Jars	Cool to 6°C	14 Days
	6	1	0	1	**8**	PAHs 8270	4-ounce Glass Jars	Cool to 6°C	14 Days
	6	1	0	1	**8**	14 Metals 6010B, 245.1/7470A	4-ounce Glass Jars	Cool to 6°C	180 Days
	1	0	0	0	**1**	Chromium VI 7196A	4-ounce Glass Jars	Cool to 6°C	CrVI 30 days
	1	0	0	0	**1**	4 Metals 6010	4-ounce Glass Jars	Cool to 6°C	180 Days
	1	1	0	1	**3**	Herbicides	4-ounce Glass Jars	Cool to 6°C	180 Days
	1	1	0	1	**3**	PCBs	4-ounce Glass Jars	Cool to 6°C	14 Days
Groundwater	5	1	1	1	**8**	VOCs 8260	3 - 40 ml Vials	HCl, Ice	14 Days
	0	0	0	0	**0**	SVOCs/PAHs - 8270/SIM	1 - 1 liter Amber Glass Jar	Ice	7 Days
	5	1	1	1	**8**	PAHs - 8270/SIM	1 - 1 liter Amber Glass Jar	Ice	7 Days
	0	0	0	0	**0**	PCBs	1 - 1 liter Amber Glass Jar	NaOH, Ice	14 Days
	5	1	1	1	**8**	Metals - (Unfiltered)	1 - 250 ml Plastic	HNO_3, Ice	180 days
	1	0	0	0	**1**	Metals - (Filtered)	1 - 250 ml Plastic	HNO_3, Ice	180 days
	1	0	0	0	**1**	Chromium VI (Unfiltered) 7196A	1 - 250 ml Plastic	NaOH, Ice	CrVI 28 days
Trip Blank (For GW only)	1	0	0	0	**1**	VOCs	3 - 40-ml Glass Vials	HCl, Ice	14 Days
Asbestos	0	0	0	0	0	ACM by PLM	Sealable Plastic Bags	NA	NA

TABLE 2
ANALYSIS BREAKDOWN
Phase II ESA

CTP Site 1 Former IU Food Storage Building
Bloomington, IN

Groundwater: Sample #	Probe Depth	VOCs	SVOCs/ PAHs	PAHs	Unfiltered 14 Metals	Filtered 4 Metals	Unfiltered CrVI
SB- 1							
SB- 2							
SB- 3							
SB- 4	20	1		1	1		
SB- 5							
SB- 6							
SB- 7							
SB- 8							
SB- 9							
SB- 10	8						
SB- 11							
SB- 12							
SB- 13							
SB- 14							
SB- 15	20	1		1	1		
SB- 16	8						
SB- 17	20	1		1	1		
SB- 18	20	1		1	1		
SB- 19							
SB- 20	20	1		1	1		
SB- 21							
SB- 22							
SB- 23							
SB- 24							
SB- 25							
Re-analyze due to elevated detections						1	1
Deeper Samples							
NOTE: Probes listed but for which analyses are not shown are for other CTP sites.							
sum footage	116						
sum	116						
Total Samples		5	0	5	5	1	1
QA/QC		3	0	3	3		
Trip Blanks		1					
Total lab		9	0	8	8	1	1

Soils: VOCs	SVOCs/ PAHs	PAHs	14 Metals	PCBs	Herb	4 metals	Cr VI	Default sample depth (ft)
1		1	1					
				1				
1		1	1					
	1		1		1			
1		1	1					
1		1	1					
1		1	1					
		1				1	1	
5	1	6	6	1	1	1	1	
2	3	0	3	3	3			
7	4	6	9	4	4	1	1	

QA/QC = Field Duplicate, MS/MSD, Equipment Blank (Water),

SITE HEALTH AND SAFETY PLAN

Certified Technology Park, N. Rogers and W. 10th Streets, Bloomington, Indiana

1.0 GENERAL PROJECT INFORMATION

Prime Contractor:	**Bruce Carter Associates, LLC**
Client:	**City of Bloomington**
Subject Site Name:	**Certified Technology Park Sites 1-5**
Site Address:	**N. Rogers and W. 10th Streets, Bloomington, Indiana**
Principal: **Project Manager:**	**John Kilmer** **Len Hinrichs, Project Manager**
Date of Plan:	**March 31, 2014**

SITE DESCRIPTION

Type of Facility (describe):	**Former furniture manufacturer, food storage facility, printing services, RCRA TSD facility**
Active or Closed/Abandoned:	**Subject Sites are not occupied**
Describe surface features (buildings, paved or unpaved, overhead/underground utilities):	**21 parcels of land (12 acres) w/ former Print Services Building, former Showers Kiln & Dimension Mill, and vacant land. Overhead and underground utilities present.**
List any site access restrictions:	**None**
Surrounding neighborhood description:	**Commercial w/ some light industrial and residential**

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	X	X	X		X
Investigation					
Remediation					

EMERGENCY PHONE NUMBERS

POSITION	NAME	CONTACT
Safety Officer	**Len Hinrichs**	**© (317) 408-3324**
Field Technician	**Chelsie Dugan**	**© (559) 639-7011**
Industrial Services	**To be determined**	**To be determined**
Subcontractors: List all names of Subcontractors	**TBD**	**TBD**
Hospital Name	**Bloomington Hospital**	
Hospital Address	**601 W. 2nd Street, Bloomington, IN**	
Hospital Phone Number	**(812) 353-6821**	
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 Bruce Carter Associates, 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:

- Installation of additional groundwater probes and groundwater monitoring wells; soil and groundwater sampling; and soil cuttings and purge water disposal.

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	**Len Hinrichs**	**© (317) 408-3324**
Field Technician	**Chelsie Dugan**	**© (559) 639-7011**
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

Principal Manager
John Kilmer
Responsibilities
Accident Reporting
Restart Work Following Work Stoppage
OSHA and USEPA Point of Contact

Site Safety Officer
Len Hinrichs, Project Manager
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
Len Hinrichs
Chelsie Dugan
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	Bloomington Hospital
Hospital Address	601 W. 2nd Street, Bloomington, IN
Hospital Phone Number	(812) 353-6821
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.

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 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:

- Groundwater probe installation
- Groundwater monitoring well installation
- Groundwater sampling
- Soil cuttings and purge water 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
Metals	Varies	TBD	TBD	Varies

Is free product onsite? __ Yes ___ No _X__ Unsure

Will work tasks be performed inside buildings/enclosures? _X__ Yes __ No

Is there evidence that contaminants present could cause vapor problems in structures on-site?
__Yes _X_ No __ Unsure

If Yes, is building mechanically ventilated? ___Yes ___No

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 probe and monitoring well locations and depths will be performed by BCA. This is also not an invasive activity and no hazards are anticipated.

- Soil borings and groundwater probe/monitoring well installation. This activity will be performed by a subcontractor who will perform the borings/installations in the pre-marked areas. These personnel will be subject to the provisions of this health and safety plan.

- Abandoning groundwater probes/monitoring wells. This activity will be performed by BCA and/or a subcontractor. These personnel will be subject to the provisions of this health and safety plan.

- All contractors will review and sign this HASP.

13.0 SITE DESCRIPTION

Type of Facility (describe):	Warehouse
Active or Closed/Abandoned:	Site is closed / vacant
Describe Surface Features (buildings, paved or unpaved, overhead/underground utilities):	21 parcels of land (12 acres) w/ former Print Services Building, former Showers Kiln & Dimension Mill, and vacant land. Overhead and underground utilities present.
List Any Site Access Restrictions:	None
Surrounding Neighborhood Description:	Commercial

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:

Flame 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 more 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. The exclusion zone and contamination reduction zone are shown on the attached site map.

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 SVOC's are present, all soil samples will be field screened for semi-volatile organics using a flame ionization detector (FID). 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 FID 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 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: 04/10/14

Plan Approved by:_____ Date: 04/10/14

Health and Safety Officer:_____ Date: 04/10/14

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:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

Signature:_____ Date:_____

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Signature:_____ Date:_____

Signature:_____ Date:_____

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Signature:_____ Date:_____

Appendix B

Boring Logs

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

Bruce Carter Associates, LLC.
6330 E 75th St, Suite 150
Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-1
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	333 & 335 W. 11th Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		13.5'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/19/2014	5/19/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539960.353 Northing 4336096.561

Depth	**Interval**	**Description**	**Sample Interval**	**PID ppm**	**Lab Results***	**Remarks**
		Organic Fill, Bricks		0.0		
				0.0		40% recovery
		MLCL (10R 5/8), from 3.5-4' angular GP (wet)		0.0		
				0.0		
5		Cohesive, moist MLCL (2.5YR 5/3)		0.0		
				0.0		75% recovery
				0.0		
				0.0		
				0.0		
10				0.0		80% recovery
		Dense CL with low ML content		0.0		
				0.0		
		Hard Dense CL with little ML with GP (angular) in the last 3"		0.0		80% recovery
		Refusal 13.5'				
15						
		Due to poor recovery, offset to the East 5' Set temporary 1" ID PVC well at 13.5' with 5' screen. Collected ground water 5/23/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-2
Sheet 1 of 1

Location Print Services Building
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	638 North Rogers Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		4'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/19/2014	5/19/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539893.026 Northing 4336098.733

Depth	**Interval**	**Description**	**Sample Interval**	**PID ppm**	**Lab Results***	**Remarks**
		Organic Fill		0.0		
				0.0		60% recovery
		CL with low ML content (5YR 4/6); LMS GP intermixed		0.0		
				0.0		
		Refusal 4'				
5		Hit three refusals all at 3.5' Collected soil samples 5/19/2014. Abandoned bore hole by filling with bentonite.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-3
Sheet 1 of 1

Location	Parking Lot Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	555 North Morton Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		7.5'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/21/2014	5/21/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 540023.135 Northing 4335969.195

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Asphalt with GPML and possible CAC		0.0 0.0		
		Wet CAC and CLML, concrete layer, CLML		0.0 0.0		70% recovery
5		CL with little ML		0.0 0.0		100% recovery
		CL with little ML, last 2-3" is wet MLCL with some SP		0.0 **22.4**		moderate odor
10		Refusal 7.5' Set temporary 1" ID PVC well at 7.5' with 5' screen. Collected ground water 5/26/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-4
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 600 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 11'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/21/2014 5/21/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 540016.842 Northing 4335934.045

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		6" of Asphalt, gravel, fill		0.0		
				0.0		60% recovery
		Fill, SPMLCL (possible fill sand), CAC in the last 3"		0.0		
				0.0		
5		Wet, Cohesive MLCL (2.5YR 4/1)		0.0		
				0.0		60% recovery
				0.0		
				0.0		
				0.0		40% recovery
10		Dense MLCL (2.5YR 4/1), last 5" contain GP intermixed, LMS fragments		0.0		
				0.0		
		Refusal 11'				
		Set temporary 1" ID PVC well at 11' with 5' screen. Collected ground water 5/26/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-5
Sheet 1 of 1

Location	Vacant Lot Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/21/2014 5/21/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539830.617 Northing 4335959.396

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Organic Fill, CAC, Brick, CL with little ML		0.0 0.0		100% recovery
		CL with little ML (7.5YR 5/6)		0.0 0.0		
5		(4-5') MLCL, (5-6') GM with CL		0.0 0.0		100% recovery
		MLCL (2.5YR 5/8), last 2" mottled CL		0.0 0.0		
		BTH 8'				
10		Collected soil samples 5/21/2014. Abandoned bore hole by filling with bentonite.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-6
Sheet 1 of 1

Location	Vacant Lot Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/21/2014 5/21/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539800.747 Northing 4335923.058

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		(0-1') Organic Fill, (1-2) CAC		0.0 0.0		70% recovery
		(2-3') CAC, (3-4') MLCL, wet		0.0 0.0		
5		CL with little ML		0.0 0.0		100% recovery
		(6-7') CL with GP (angular) intermixed, (7-8') CL with little ML		0.0 0.0		
		BTH 8'				
10		Collected soil samples 5/21/2014. Abandoned bore hole by filling with bentonite.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-7
Sheet 1 of 1

Location	Vacant Lot Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 11.5'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/21/2014 5/21/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539769.91 Northing 4335954.942

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Fill and gravel followed by CAC at 2'		0.0 0.0		40% recovery
		Gravel, MLCL, Fill with CAC in the last 3"		0.0 0.0		
5		CAC in the upper 2", then moist CL (5YR 4/2), (5-6') moist CAC		0.0 0.0		60% recovery
		First 6" is CAC mixed with CL, (6.5-8') moist MLCL (5YR 4/6)		0.0 0.0		
		CL (5YR 4/6)		0.0 0.0		100% recovery
10		CL (5YR 4/6)		0.0		
		Refusual 11.5'				
15		Set temporary 1" ID PVC well at 11.5' with 5' screen. Collected ground water 5/27/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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6330 E 75th St, Suite 150
Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-8
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 333 & 335 W. 11th Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539989.795 Northing 4336075.96

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Fill (GRVL)		0.0		
		First 1" Blk granular material followed by CL		0.0		50% recovery
		CL (5YR 5/6) medium stiffness		0.0		
				0.0		
5				0.0		
		(6-7') 3" of CL (5YR 5/6) followed by CLGPSP		0.0		50% recovery
		(7-8') CL (5YR 3/1) with pieces of wood at 7' 10"		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/19/2014. Abandoned bore hole by filling with bentonite.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-9
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 333 & 335 W. 11th Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 17'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539992.605 Northing 4336055.216

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		GM Fill with Organic Fill		0.0 0.0 0.0 0.0		20% recovery
		Blk MLCL with angular GP intermixed				
5		First 2" is Brick followed by Blk MLCL (wet) with some organic material		0.0 0.0		25% recovery
		GM (dry)				
		CL (5YR 6/8)		0.0 0.0		
10		CL (5YR 3/1) with GM intermixed, poor recovery		0.0 0.0 0.0 0.0		10% recovery
		(12-13') CAC (wet), (13-14') MLCL (2.5YR 5/3)		**1.1** 0.0		100% recovery
15		CL with some ML (5YR 5/4) with GP intermixed		0.0 0.0		100% recovery
		CL (5YR 5/8) with some ML (wet)		0.0		
		Refusal 17' Offset to the North 3' to acquire more sample volume Set temporary 1" ID PVC well at 17' with 5' screen. Collected ground water 5/23/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Bruce Carter Associates, LLC.
6330 E 75th St, Suite 150
Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-10
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 600 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539921.457 Northing 4336005.786

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Fill Material		0.0		
				0.0		80% recovery
		Fill and MLCL with some GM intermixed (7.5YR 4/6)		0.0		
				0.0		
5		MLCL with some GM intermixed (7.5YR 4/6)		0.0		
				0.0		90% recovery
		(6-7') MLCL (7.5YR 4/6), (7-8') Wood debris (6") followed by black CLGC, wet		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/20/2014. Abandoned bore hole by filling with bentonite.				
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BORING LOG

Borehole ID: SB-11
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	333 & 335 W. 11th Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		10'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/21/2014	5/21/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 540020.189 Northing 4336008.99

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Asphalt, Fill, Concrete		0.0		
				0.0		80% recovery
		(2-2.5') CAC, (2.5-4') CL with little ML		0.0		
				0.0		
5		CL with little ML (5YR 5/8)		0.0		
				0.0		100% recovery
				0.0		
				0.0		
		CL with little ML (5YR 5/8), last 5" is wet MLCL with some SP and a (2-3") GP seam at 9'		0.0		90% recovery
10				0.0		
		Refusal 10'				
		Set temporary 1" ID PVC well at 10' with 5' screen. Collected ground water 5/24/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-12
Sheet 1 of 1

Location Print Services Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 638 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 17.5'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539896.07 Northing 4336031.199

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		6" of Concrete, Fill, CLML		0.0		
				0.0		100% recovery
		CLML (10YR 5/6)		0.0		
				0.0		
5		CLML (10YR 5/6)		0.0		
				0.0		100% recovery
		(6-7') Possible CAC, Brick		0.0		
		(7-8') CL with little ML (10R 5/8)		0.0		
		CL (10R 4/8)		0.0		
10				0.0		100% recovery
		(10-11') MLCL (4"), SPMLCL (4"), MLCL (4")		0.0		
		(11-12') CLML (10R 44/8) less silt from above		0.0		
				0.0		
		MLCL (5YR 4/6) moist		0.0		45% recovery
15				0.0		
				0.0		
		MLCL (5YR 4/6), last 3" is SPMLCL with GP (wet)		0.0		70% recovery
		Refusal 17.5'				
20		Set temporary 1" ID PVC well at 17.5' with 5' screen. Not sampled, dry hole. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-13
Sheet 1 of 1

Location Print Services Building
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	638 North Rogers Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		14'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/19/2014	5/19/2014

Type of Sampling Device	**Water Level (bgs)**
4' Acetate Sleeve	DRY
	Logged By: C Dugan / **Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539920.191 Northing 4336055.797

Depth	**Interval**	**Description**	**Sample Interval**	**PID ppm**	**Lab Results***	**Remarks**
		Asphalt		0.0		
		Fill (1-1.5'), CL (1.5-2')		0.0		90% recovery
		CL (7.5YR 5/6) probable fill		0.0		
				0.0		
5				0.0		
				0.0		80% recovery
				0.0		
		CL (7.5YR 5/6) some GP probable fill, CAC last 3"		0.0		
		CL (7.5YR 5/6)		0.0		
10				0.0		100% recovery
				0.0		
				0.0		
		CL (7.5YR 5/6), last inch LMS Frags		0.0		70% recovery
				0.0		
		Refusal 14' Bedrock				
15						
		Set temporary 1" ID PVC well at 14' with 5' screen. Collected ground water 5/23/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-14
Sheet 1 of 1

Location Print Services Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 638 North Roger Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539932.807 Northing 4336021.186

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Topsoil		0.0		
		CL with some GP intermixed		0.0		90% recovery
		CLML (7.5YR 3/4) with light GP intermixed		0.0		
				0.0		
		CLML (7.5YR 3/4)		0.0		
5		CL (7.5YR 4/1)		0.0		100% recovery
		Dense Dry CL (7.5YR 4/1)		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/19/2014. Abandoned bore hole by filling with bentonite.				
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BORING LOG

Borehole ID: SB-15
Sheet 1 of 1

Location Food Storage Building
Bloomington Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 600 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 15'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539946.436 Northing 4335956.037

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		CL Fill (7.5YR 4/6)		0.0		
				0.0		100% recovery
				0.0		
				0.0		
		CL (7.5YR 4/6)		0.0		
5				0.0		100% recovery
				0.0		
		Dense CL (10YR 3/2), GPSP seam from (7' 3" to 7' 5")		0.0		
				0.0		
		MLCL (10YR 3/2), becomes dense at 9'		0.0		100% recovery
10				0.0		
				0.0		
		Very Dense CLML with low silt content (7.5YR 5/8)		0.0		100% recovery
				0.0		
15		Refusal 15'		0.0		
		Refusal at 7.5', offset to the southeast by 4' Set temporary 1" ID PVC well at 15' with 5' screen. Collected ground water 5/24/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-16
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 600 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539976.944 Northing 4335955.527

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Topsoil, Concrete		0.0		
				0.0		75% recovery
		CL (5YR 4/4)		0.0		
				0.0		
5		CLML (7.5YR 2.5/1) material (possible CAC), moist, with 6" of brick		0.0		
				0.0		80% recovery
		CLML (5YR 3/1)		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/20/2014. Abandoned bore hole by filling with bentonite.				
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BORING LOG

Borehole ID: SB-17
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 600 North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 15'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 9/30/2013 9/30/2013
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539977.558 Northing 4335909.297

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Organic Fill, GP from (1.5-2')		0.0		
				0.0		80% recovery
		CL with little ML (7.5YR 4/6)		0.0		
				0.0		
5		CLML (7.5YR 4/6) , stiff until (7-7.5') becomes soft		0.0		
				0.0		80% recovery
				0.0		
				0.0		
		Same CLML as above, (11-12') transitions to CLML with GC (angular) intermixed		0.0		
10				0.0		75% recovery
				0.0		
				0.0		
		Dense CLML (10YR 5/8) with GP pieces intermixed at (12-13')		0.0		
				0.0		100% recovery
15				0.0		
		Refusal 15'				
		Set temporary 1" ID PVC well at 15' with 5' screen. Collected ground water 5/26/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-18
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	600 North Rogers Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		11.5'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/20/2014	5/20/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539886.01 Northing 4335976.698

Depth	**Interval**	**Description**	**Sample Interval**	**PID ppm**	**Lab Results***	**Remarks**
		Fill Material		0.0		
				0.0		80% recovery
		(2-3') GM with some CL, (3-3.5') MLCL, (3.5-4') GM with MLCL		0.0		
				0.0		
5		(4-5') Concrete with GC and ML, (5-6') SPMLCL with light GP (rounded), wet		0.0		
				0.0		80% recovery
		CL with little ML (5YR 4/6)		0.0		
				0.0		
		CL (5YR 4/6)		0.0		
10				0.0		80% recovery
		(10-11') CL (5YR 4/6), (11-11.5') MLCL with some GM (rounded), wet		0.0		
		Refusal 11.5				
15		Set temporary 1" ID PVC well at 11.5' with 5' screen. Collected ground water 5/24/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-19
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 333 & 335 W. 11th Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 21'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539938.164 Northing 4336065.635

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Asphalt, fill material		0.0		
				0.0		50% recovery
		Fill to CL (5YR 4/6)		0.0		
				0.0		
5		CL (5YR 4/6)		0.0		
				0.0		50% recovery
		CL (10YR 5/1)		0.0		
				0.0		
		CL (10YR 5/1) with 2" of gravel		0.0		
10		CAC (moist) to 10.5 followed by CL to 12'		0.0		70% recovery
				0.0		
				0.0		
		CL (5YR 4/6), moist from 20-21'		0.0		
15				0.0		
				0.0		
				0.0		100% recovery
				0.0		
				0.0		
20				0.0		
				0.0		
		Refusal 21.0'				
25		Set temporary 1" ID PVC well at 21' with 5' screen. Not sampled, dry hole. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-20
Sheet 1 of 1

Location Food Storage Building
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	600 North Rogers Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		9.5'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/20/2014	5/20/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539902.535 Northing 4335929.359

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Concrete & gravel fill		0.0		
				0.0		45% recovery
		Fill Material, MLGM (rounded)		0.0		
				0.0		
5		(4-5') MLCL with GM (angular), (5-6') GMSP with some CL		0.0		
				0.0		40% recovery
		GMSP with increased SP content		0.0		
				0.0		
		(8-9') CL with light ML, GP (rounded) in the upper 1", last 6" is wet, weathered MLCLSP		0.0		20% recovery
10		Refusal 9.5' Bedrock				
		Set temporary 1" ID PVC well at 9.5' with 5' screen. Collected ground water 5/26/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-21
Sheet 1 of 1

Location	Vacant Lot Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	North Rogers Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		10'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/21/2014	5/21/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By:	**Checked by/Date**
	C Dugan	

Location Description (include sketch in field logbook)
Easting 539764.355 Northing 4336006.771

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		First 3" Organic Fill, 6" Concrete, followed by CL with little ML		0.0		
				0.0		90% recovery
		CL fill with CAC		0.0		
				0.0		
5				0.0		
		Clay with little ML (5YR 5/6)		0.0		85% recovery
				0.0		
				0.0		
		CL (5YR 5/4) with SP seam at 8' 6", last 1" is LMS fragments		0.0		80% recovery
10				0.0		
		Refusal 10'				
		Set temporary 1" ID PVC well at 10' with 5' screen. Not sampled, dry hole. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-22
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 333 & 335 W. 11th Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539961.649 Northing 4336052.088

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Topsoil, (1-2') CAC		0.0		
		(2-3') CAC		0.0		70% recovery
		(3-4') MLCL		0.0		
				0.0		
5		MLCL to 4' 3" , GM (10YR 7/2) from (4' 3" - 5'), GC (angular) moist		0.0		
				0.0		70% recovery
		CL with some ML (2.5YR 5/1) soft material transitioning to stiff dense CL at 7'		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/19/2014. Abandoned bore hole by filling with bentonite.				
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BORING LOG

Borehole ID: SB-23
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	333 & 335 W. 11th Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
ARK Engineering	Chris and Henry		14'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	5/21/2014	5/21/2014

Type of Sampling Device	**Water Level (bgs)**	
4' Acetate Sleeve	DRY	
	Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539998.766 Northing 4336000.308

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		(0-1') Fill, (1-2') CAC with gravel		0.0		40% recovery
				0.0		
		(2-3') CAC, (3-4') CAC mixed with CL, GP pieces at the bottom		0.0		
				0.0		
5		First 5" is GM with CL with an 1" of CAC at 4' 2.5", followed by wet MLCL (5Y 4/1)		0.0		80% recovery
				0.0		
		MLCL (5Y 4/1), wet		0.0		
				0.0		
		CLML		0.0		100% recovery
10				0.0		
		CLGC with little ML		0.0		
				0.0		
		(12-12.5') CL, (12.5-14") wet, MLCL with little SPGP (angular) intermixed		0.0		100% recovery
				0.0		
15		Refusal14'				
		Set temporary 1" ID PVC well at 14' with 5' screen. Collected ground water 5/23/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-24
Sheet 1 of 1

Location	Vacant Lot Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** North Rogers Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 11.5'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/21/2014 5/21/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539840.618 Northing 4335943.794

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		(0-1') Fill, organic, CAC, (1-2') CAC, GP to CL in the last 6"		0.0 0.0		90% recovery
		CLML (7.5YR 4/6)		0.0 0.0		
5		Dense CL with little ML (5YR 4/6)		0.0 0.0 0.0 0.0		100% recovery
		Dense CL (5YR 5/8)		0.0 0.0		80% recovery
10		(10-11') Dense CL with little ML, (11-11.5') moist, soft CL (5YR 5/4) with few GP (small angular)		0.0		
		Refusal 11.5'				
15		Set temporary 1" ID PVC well at 11.5' with 5' screen. Collected ground water 5/27/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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BORING LOG

Borehole ID: SB-25
Sheet 1 of 1

Location Kiln & Dimension Mill
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 333 & 335 W. 11th Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 10'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/19/2014 5/19/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539940.332 Northing 4336097.527

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Concrete/Asphalt		0.0		
				0.0		50% recovery
		MLCL (10YR 4/2) with an 1" SP seam at 3' 7"		0.0		
				0.0		
5		MLCL (10YR3/2) cohesive and moist		0.0		
				0.0		70% recovery
				0.0		
				0.0		
		CL (10YR 3/2)		0.0		80% recovery
		CL (10YR 2/2) with 1" of LMS Frags at bottom		0.0		
10		Refusal 10'				
		Set temporary 1" ID PVC well at 10' with 5' screen. Collected ground water 5/23/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
15						
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Bruce Carter Associates, LLC.
6330 E 75th St, Suite 150
Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-26
Sheet 1 of 1

Location Parking Lot
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 555 North Morton Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 8'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539993.4 Northing 4335984.907

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		First 6" is Asphalt, crushed stone base to 1', (1-2') GM (possible CAC)		0.0		
				0.0		60% recovery
		GMCL (7.5YR 3/1), moist		0.0		
				0.0		
5		(4-5') GC (2.5YR 4/1), (5-6') GM layers with mottled CL (5YR 5/3), moist		0.0		
				0.0		70% recovery
		2" seam of GPSP (5YR 7/2), followed by CLGM (5YR 5/3)		0.0		
				0.0		
		BTH 8'				
10		Collected soil samples 5/20/2014. Abandoned bore hole by filling with bentonite.				
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Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-27
Sheet 1 of 1

Location Parking Lot
Bloomington, Indiana

Project Name Subsurface Investigation	**Project Number** 14-127	**Site Address** 555 North Morton Street	
Drilling Company ARK Engineering	**Driller** Chris and Henry	**Ground Elevation**	**Total Drilled Depth** 10.5'
Drilling Equip Geoprobe	**Drilling Method** Direct Push	**Borehole Dia** 2.0"	**Date Drilling Started/Completed** 5/20/2014 5/20/2014
Type of Sampling Device 4' Acetate Sleeve		**Water Level (bgs)** DRY	
		Logged By: C Dugan	**Checked by/Date**

Location Description (include sketch in field logbook)
Easting 539996.563 Northing 4335951.39

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		Concrete Fill		0.0		
		MLCL with Brick pieces		0.0 0.0 0.0		80% recovery
5		GMGC (wet)		0.0		
		CL (2.5YR 4/4)		0.0		80% recovery
		CLML (7.5YR 5/1)		0.0 0.0		
10		CLML with some GC (angular), moist		0.0 0.0		50% recovery
		Refusal 10.5				
15		Set temporary 1" ID PVC well at 10.5' with 5' screen. Collected ground water 5/22/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Bruce Carter Associates, LLC.
6330 E 75th St, Suite 150
Indianapolis, IN 46250

BORING LOG

Borehole ID: SB-28
Sheet 1 of 1

Location Parking Lot
Bloomington, Indiana

Project Name	**Project Number**	**Site Address**	
Subsurface Investigation	14-127	555 North Morton Street	
Drilling Company	**Driller**	**Ground Elevation**	**Total Drilled Depth**
Earth Exploration	Doug and Ty		8.0'

Drilling Equip	**Drilling Method**	**Borehole Dia**	**Date Drilling Started/Completed**	
Geoprobe	Direct Push	2.0"	6/27/2014	6/27/2014

Type of Sampling Device	**Water Level (bgs)**
4' Acetate Sleeve	DRY
	Logged By: C Dugan / **Checked by/Date**

Location Description (include sketch in field logbook)
Easting 540021.608 Northing 4335982.048

Depth	Interval	Description	Sample Interval	PID ppm	Lab Results*	Remarks
		6" of asphalt and fill, black MLCL. Increased CL content towards 2' (Possible CAC at 1')		0.0		
				0.0		100% recovery
		Dark brown CL, CAC at 2' 7" - 3' , followed by moist CL		0.0		
				0.0		
5		Dark black-dark brown moist CL becomes reddish brown and stiff CL from 5-6'		0.0		
				0.0		100% recovery
		Moist black CLML (6-7'), stiff reddish brown CL (7-8')		7.2 8.2		
10		Refusal 8.0' Set temporary 1" ID PVC well at 8.0' with 5' screen. Collected ground water 6/30/2014. Well construction materials removed from borehole and borehole abandoned with bentonite chips.				
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Appendix C

GPS Data

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

GPS Data

Site/Facility Name: **Bloomington CTP Sites**
Site/Facility ID: **7950 - 7954**
OLQ Program:
Purpose of Data Collection: Soil Borings, Sample Locations

Data Collector Name: Chelsie Dugan
Data Processor Name: David Scovel LPG

Projection: UTM Zone 16N
Datum: NAD 1983 (Conus) CORS 96
Units: Meters
GPS Reciever Brand/Model: Trimble Nomad 900 G
Reciever Type: Mapping Grade GPS

Feature Name	Feature Type	Max PDOP	Easting (X)	Northing (Y)	Standard Deviation	Correction Method	Receiver Type	Date of Collection	Time of Collection	Data File Name	Total Positions	Filtered Positions
Borings	SB- 1	1.9	539960.353	4336096.561	0.582852	Postprocessed Code	Nomad	5/22/2014	04:40:50pm	BLOOM 1.cor	189	189
Borings	SB- 2	2.9	539893.026	4336098.733	3.164557	Postprocessed Code	Nomad	5/22/2014	04:24:23pm	BLOOM 1.cor	252	252
Borings	SB- 3	2.9	540023.135	4335969.195	0.878241	Postprocessed Code	Nomad	5/22/2014	05:05:44pm	BLOOM 1.cor	188	188
Borings	SB- 4	2	540016.842	4335934.045	0.696699	Postprocessed Code	Nomad	5/22/2014	05:22:33pm	BLOOM 1.cor	182	182
Borings	SB- 5	2.4	539830.617	4335959.396	0.760763	Postprocessed Code	Nomad	5/22/2014	05:52:54pm	BLOOM 1.cor	181	181
Borings	SB- 6	3.7	539800.747	4335923.058	1.467686	Postprocessed Code	Nomad	5/22/2014	06:10:25pm	BLOOM 1.cor	209	209
Borings	SB- 7	3.2	539769.91	4335954.942	1.073509	Postprocessed Code	Nomad	5/22/2014	06:05:46pm	BLOOM 1.cor	182	182
Borings	SB- 8	4.3	539989.795	4336075.96	1.893574	Postprocessed Code	Nomad	5/22/2014	04:45:22pm	BLOOM 1.cor	193	193
Borings	SB- 9	6.9	539992.605	4336055.216	1.340702	Real-time SBAS Corrected	Nomad	5/22/2014	04:49:27pm	BLOOM 1.cor	193	193
Borings	SB- 10	4.6	539921.457	4336005.786	1.241945	Postprocessed Code	Nomad	5/22/2014	05:35:02pm	BLOOM 1.cor	183	183
Borings	SB- 11	5.8	540020.189	4336008.99	0.339988	Postprocessed Code	Nomad	5/22/2014	04:54:27pm	BLOOM 1.cor	187	187
Borings	SB- 12	6.2	539896.07	4336031.199	1.103163	Postprocessed Code	Nomad	5/22/2014	04:12:12pm	BLOOM 1.cor	193	193
Borings	SB- 13	4.8	539920.191	4336055.797	15.362486	Postprocessed Code	Nomad	5/22/2014	04:16:08pm	BLOOM 1.cor	183	183
Borings	SB- 14	4.3	539932.807	4336021.186	0.919039	Postprocessed Code	Nomad	5/22/2014	05:28:43pm	BLOOM 1.cor	269	269
Borings	SB- 15	3.8	539946.436	4335956.037	0.194236	Postprocessed Code	Nomad	5/22/2014	05:43:48pm	BLOOM 1.cor	181	181
Borings	SB- 16	1.9	539976.944	4335955.527	1.015026	Postprocessed Code	Nomad	5/22/2014	05:13:50pm	BLOOM 1.cor	206	206
Borings	SB- 17	2	539977.558	4335909.297	1.154079	Postprocessed Code	Nomad	5/22/2014	05:18:16pm	BLOOM 1.cor	190	190
Borings	SB- 18	1.7	539886.01	4335976.698	0.540469	Postprocessed Code	Nomad	5/22/2014	05:39:07pm	BLOOM 1.cor	196	196
Borings	SB- 19	2.5	539938.164	4336065.635	0.434554	Postprocessed Code	Nomad	5/22/2014	04:19:36pm	BLOOM 1.cor	187	187
Borings	SB- 20	1.7	539902.535	4335929.359	0.698675	Postprocessed Code	Nomad	5/22/2014	05:47:59pm	BLOOM 1.cor	198	198
Borings	SB- 21	3.7	539764.355	4336006.771	0.404038	Postprocessed Code	Nomad	5/22/2014	05:58:21pm	BLOOM 1.cor	190	190
Borings	SB- 22	4.9	539961.649	4336052.088	0.746858	Postprocessed Code	Nomad	5/22/2014	04:32:00pm	BLOOM 1.cor	212	212
Borings	SB- 23	4.3	539998.766	4336000.308	1.652834	Postprocessed Code	Nomad	5/22/2014	04:58:16pm	BLOOM 1.cor	181	181
Borings	SB- 24	2.7	539840.618	4335943.794	0.527675	Postprocessed Code	Nomad	5/22/2014	06:14:48pm	BLOOM 1.cor	204	204
Borings	SB- 25	2.5	539940.332	4336097.527	0.796177	Postprocessed Code	Nomad	5/22/2014	04:36:53pm	BLOOM 1.cor	186	186
Borings	SB- 26	3.2	539993.4	4335984.907	0.850711	Postprocessed Code	Nomad	5/22/2014	05:01:40pm	BLOOM 1.cor	184	184
Borings	SB- 27	2.1	539996.563	4335951.39	0.91704	Postprocessed Code	Nomad	5/22/2014	05:09:59pm	BLOOM 1.cor	190	190
Borings	SB- 28	3.9	540021.608	4335982.048	1.843597	Postprocessed Code	Nomad	6/27/2014	02:34:17pm	BLOOM 2.cor	228	228

Appendix D

Low Flow Data Sheets

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

Bloomington CTP Groundwater Sampling Spring 2014

Sampled By: C Dugan and Len Hinrichs

Sampling Equipment: Geotech Stainless Steel Bladder Pump and disposable Dual Line Tubing

Sample Location	GW Starting Depth	Approx Flow Rate	Pump Start Time	Temperature Deg F	Specific Conductivity	% Dissolved Oxygen	pH	ORP mV	Sample Date	Notes
SB-GW-27	3.14	100 mL/min	9:55	---	---	---	---	---	5/22/2014	
			9:58	---	---	---	---	---		
			10:01	---	---	---	---	---		
			10:04	---	---	---	---	---		
			10:07	---	---	---	---	---	Water level drop to below top of pump	
			10:10	62.10	1.509	2.93	7.18	-76.0	reduced flow, water level stabilized but	
			10:13	61.71	1.519	2.71	7.15	-99.9	never recovered above the pump	
			10:16	61.59	1.523	2.60	7.15	-110.4		
			10:19	61.56	1.529	2.50	7.14	-125.7	Cloudy, 1.5 gals. purged	
		80 mL/min	10:22	61.37	1.530	2.34	7.13	-141.1		
			10:25	61.30	1.531	2.30	7.13	-142.0	SAMPLED	for all parameters, used bladder pump.
SB-GW-12	13.37	100 mL/min	11:10	---	---	---	---	---	5/22/2014	
			11:13	66.59	0.693	7.80	7.93	153.8		
			11:16	66.23	0.723	7.08	7.66	157.7		
	13.80	80 mL/min	11:19	68.38	0.767	6.98	7.66	156.6		
			11:22	70.15	0.795	7.40	7.70	159.0		
			11:25	70.66	0.841	7.12	7.74	158.0	Lowered pump rate	
			11:28	70.87	0.860	6.93	7.75	158.2		
			11:31	72.21	0.877	6.77	7.78	157.1	Air bubbles in line, lowered pump rate	
			11:34	73.92	0.887	6.95	7.83	157.4		
			11:37	74.54	0.893	6.93	7.84	157.3	Well purged dry, no sampled collected	
									will need to recharge to sample	
	NA		8:45	---	---	---	---	---	5/23/2014	
									DRY HOLE, NO SAMPLE	
									only 2 inches of water, no recovery	
SB-GW-13	1.04	80 mL/min	11:55	---	---	---	---	---	5/22/2014	
			11:58	68.20	1.177	5.60	6.40	122.1		
			12:01	66.42	1.186	5.46	6.40	121.3		
			12:04	66.17	1.193	5.22	6.39	120.5		
			12:07	66.21	1.249	4.87	6.37	119.7		
			12:09	66.18	1.284	4.80	6.36	120.6		
			12:12	66.01	1.387	4.99	6.35	125.4		
			12:15	65.98	1.398	4.94	6.34	126.2		
			12:18	65.78	1.448	4.91	6.31	129.2		
			12:21	65.72	1.499	4.85	6.29	129.4		
			---	---	---	---	---	---		
			12:35	---	---	---	---	---	Purged Dry	
	6.82		8:20	---	---	---	---	---	5/23/2014	
			8:25	---	---	---	---	---	SAMPLED	all parameters except filtered metals used peristaltic pump
	12.85		10:20	---	---	---	---	---	5/24/2014	
			10:30	---	---	---	---	---	SAMPLED	filtered metals, used peristaltic pump
SB-GW-19	4.30		13:50	---	---	---	---	---	5/22/2014	
			13:53	---	---	---	---	---		
	5.60		13:56	---	---	---	---	---		
		40 mL/min	13:59	59.38	0.881	2.65	6.88	18.3		
	8.00		14:02	59.47	0.878	2.74	6.88	20.7		
			14:11	60.37	0.879	4.43	6.96	30.4	Switched to peristaltic pump	
			14:14	60.47	0.875	4.57	6.96	33.4		
			14:17	61.68	0.873	4.64	6.97	35.1		
			---	---	---	---	---	---		
			14:39	---	---	---	---	---	Pumped Dry purged 1.5 gals	
	NA		8:40	---	---	---	---	---	5/23/2014	
									DRY HOLE, NO SAMPLE	

Sample Location	GW Starting Depth	Approx Flow Rate	Pump Start Time	Temperature Deg F	Specific Conductivity	% Dissolved Oxygen	pH	ORP mV	Sample Date	Notes
SB-GW-25	6.38		14:56	---	---	---	---	---	5/22/2014	
			14:59	65.73	1.966	1.33	7.28	-35.9		
			15:02	66.18	2.107	1.29	7.25	-37.8		
			15:05	---	---	---	---	---	Purged Dry	
	5.50		8:55	---	---	---	---	---	5/23/2014	
			9:00	---	---	---	---	---	SAMPLED	for all parameters, used peristaltic pump.
SB-GW-1	4.57	200 mL/min	9:50	---	---	---	---	---	5/23/2014	
			9:53	58.70	0.967	1.83	7.42	90.4		
			9:56	58.08	0.947	1.84	7.29	52.0		
			9:59	57.47	0.924	1.86	7.18	25.3		
			10:02	57.26	0.913	1.72	7.13	12.2		
			10:05	57.27	0.901	0.98	7.11	-15.0		
			10:08	57.31	0.903	0.99	7.12	-17.3		
			10:11	57.38	0.906	1.08	7.14	-18.5	Cloudy, 1.5 gals purged	
			10:14	57.42	0.908	1.07	7.13	-18.1		
			10:15	---	---	---	---	---	SAMPLED	for all parameters, used bladder pump.
SB-GW-9	10.95	200 mL/min	10:40	---	---	---	---	---	5/23/2014	
			10:43	60.48	1.387	1.45	6.98	-78.9		
	12.50		10:46	58.73	1.440	1.34	6.94	-85.7		
			10:49	59.08	1.428	0.98	6.95	-91.5		
	15.00		10:52	59.00	1.418	0.85	6.96	-92.3		
			10:55	59.13	1.420	0.48	6.97	-105.2	Well continued to drawdown	
			10:58	---	---	---	---	---	switched to peristaltic pump	
			11:30	---	---	---	---	---	Purged Dry	
									1.5 gals. purged, cloudy	
			16:00	---	---	---	---	---	5/23/2014	
									SAMPLED	for all parameters, used peristaltic pump. (MS-MSD)
SB-GW-23	3.60	40 mL/min	11:40	---	---	---	---	---	5/23/2014	
			11:43	63.11	1.307	3.90	7.09	-86.6		
	11.01		11:46	63.17	1.302	3.78	7.07	-87.7		
			11:49	63.19	1.300	3.69	7.06	-88.3	Cloudy, well recharged but WL	
			11:52	63.72	1.299	2.87	6.98	-93.2	fell below the top of the pump	
			11:55	64.58	1.317	2.07	6.95	-89.2		
			11:58	64.64	1.320	2.03	6.92	-91.0	SAMPLED	for all parameters, used bladder pump.
SB-GW-18	8.70	40 mL/min	13:27	---	---	---	---	---	5/23/2014	
			13:30	64.16	1.036	2.61	6.78	155.7		
			13:33	64.80	1.056	2.54	6.75	160.3		
			13:36	65.50	1.085	2.56	6.78	161.8		
			13:39	65.61	1.087	2.59	6.80	161.6	Switched to Peristaltic	
			13:42	---	---	---	---	---	Purged Dry	
	9.28		13:40	---	---	---	---	---	5/24/2014	
			13:45	---	---	---	---	---	SAMPLED	for all parameters, used peristaltic pump.
SB-GW-15	7.80	40 mL/min	13:55	---	---	---	---	---	5/23/2014	
			13:58	69.15	1.034	2.52	6.83	154.9		
			14:01	68.74	1.013	2.30	6.73	156.6		
			14:04	68.53	0.979	2.16	6.75	157.3	Pladder Pump	
			14:07	69.59	0.984	1.94	6.73	156.9	Purged Dry	
	8.00		17:25	---	---	---	---	---	5/24/2014	
			17:30	---	---	---	---	---	SAMPLED	for all parameters, used peristaltic pump.

Sample Location	GW Starting Depth	Approx Flow Rate	Pump Start Time	Temperature Deg F	Specific Conductivity	% Dissolved Oxygen	pH	ORP mV	Sample Date	Notes
SB-GW-20	8.59		14:17	---	---	---	---	---	5/23/2014	
			14:17	---	---	---	---	---	Purged Dry	
										only 5-6 inches of water
	8.74		16:55	---	---	---	---	---	5/24/2014	
			17:00	---	---	---	---	---	SAMPLED	for VOCs only, used peristaltic pump
	8.65		16:15						5/26/2014	
			16:18						SAMPLED	for PAHs only, used peristaltic pump
SB-GW-11	1.45	40 mL/min	15:35	---	---	---	---	---	5/23/2014	
			15:38	63.69	1.051	1.48	7.39	-24.0		
			15:41	64.00	1.135	1.37	7.27	1.3		
			15:44	64.20	1.207	1.35	7.22	10.1	WL fell below pump	
			15:47	---	---	---	---	---	switched to peristaltic	
			15:50	---	---	---	---	---		
			15:51	---	---	---	---	---	Purged Dry	
	2.50		11:20	---	---	---	---	---	5/24/2014	
			11:30	---	---	---	---	---	SAMPLED	for all parameters, used peristaltic pump.
SB-GW-3	2.46	40 mL/min	15:57	---	---	---	---	---	5/23/2014	
			16:00	66.66	0.953	2.10	7.30	-4.6	frothy, effervescent,	
			16:03	66.91	1.226	0.45	7.29	-82.6	slight petro ordor,	
			16:06	67.12	1.271	0.42	7.30	-102.9		
			16:09	67.66	1.237	0.42	7.25	-103.4	Pumped Dry	
										only 4 ft of water
	4.85		12:25	---	---	---	---	---	5/24/2014	
			12:30	---	---	---	---	---	SAMPLED	for VOCs and PAHs, DUP on VOCs, used peristaltic pump
	6.30		16:55	---	---	---	---	---	5/26/2014	
			17:00	---	---	---	---	---	SAMPLED	for PAHs DUP and one (1) Totals Metals, used peristaltic pump
	6.50		10:55	---	---	---	---	---	5/27/2014	
			11:00	---	---	---	---	---	SAMPLED	for Filtered Metals, used peristaltic pump
SB-GW-4	4.25	40 mL/min	15:20	---	---	---	---	---	5/23/2014	
			15:23	63.31	1.223	1.91	7.00	-19.8		
			15:26	63.37	1.218	1.88	6.99	-20.0		
			15:29	63.01	1.249	1.53	6.97	-48.2		
			15:32	63.40	1.257	1.43	6.97	-52.6		
			15:35	62.22	1.266	1.31	6.97	-55.0		
			15:38	62.28	1.270	1.26	6.97	-55.7		
			15:41	63.54	1.286	1.03	6.99	-68.1	Pumped Dry	
	4.90		17:40	---	---	---	---	---	5/26/2014	
			17:45	---	---	---	---	---	SAMPLED	for all parameters and a Totals Metals DUP, used peristaltic pump.
SB-GW-24	7.95	40 mL/min	11:00	---	---	---	---	---	5/26/2014	
			11:03	63.54	1.275	4.89	6.84	185.8		
	8.70		11:06	63.15	1.229	4.73	6.73	195.3		
			11:09	63.01	1.211	4.74	6.71	197.6		
	10.10		11:12	63.39	1.170	4.45	6.65	203.4		
			11:15	63.51	1.264	3.72	6.68	205.4		
			11:18	63.64	1.315	3.53	6.71	205.8		
			11:21	---	---	---	---	---	Switched to peristaltic	
			11:24	---	---	---	---	---	Purged Dry	
	8.20		10:20	---	---	---	---	---	5/27/2014	
			10:25	---	---	---	---	---	SAMPLED	for all parameters, used peristaltic

Sample Location	GW Starting Depth	Approx Flow Rate	Pump Start Time	Temperature Deg F	Specific Conductivity	% Dissolved Oxygen	pH	ORP mV	Sample Date	Notes
										pump.
SB-GW-7	8.00	40 mL/min	12:20	---	---	---	---	---	5/26/2014	
			12:23	65.12	1.158	2.61	6.88	124.3		
	9.65		12:26	63.61	1.137	2.23	6.81	128.2		
			12:29	62.14	1.105	1.57	6.75	140.6		
			12:32	62.00	1.106	1.50	6.75	140.7		
			12:35	---	---	---	---	---	Switched to peristaltic	
			12:38	---	---	---	---	---		
	12.00		12:41	---	---	---	---	---	Purged Dry	
	8.87		11:35	---	---	---	---	---	5/27/2014	
			11:40	---	---	---	---	---	SAMPLED	for all parameters, used the peristaltic pump.
SB-GW-21	NA		13:00	---	---	---	---	---	DRY HOLE	NO SAMPLE
SB-GW-17	10.50		14:13	---	---	---	---	---	5/26/2014	
			14:16	71.66	0.888	3.15	6.94	21.6		
			14:19	67.95	0.919	2.61	6.87	18.9	Bladder Pump	
			14:22	67.04	0.953	2.01	6.75	30.2		
			14:25	67.38	0.975	1.98	6.72	33.6		
	10.75		14:28	67.42	0.983	1.97	6.71	34.2		
			14:31	67.43	0.98	1.97	6.71	34.1		
			14:35	---	---	---	---	---	SAMPLED	for all parameters, used the bladder pump.
EB-1			15:35	---	---	---	---	---	5/23/2014	
									Sampled through peristaltic pump	
EB-2			18:20	---	---	---	---	---	5/24/2014	
									Sampled through peristaltic pump	
EB-3			18:10	---	---	---	---	---	5/26/2014	
									Sampled through bladder pump	
EB-4			12:20	---	---	---	---	---	5/27/2014	
									Sampled through peristaltic pump	
SB-GW-28	2.51		10:35	---	---	---	---	---	6/30/2014	
			10:38	69.50	1.046	5.93	7.44	237.0		
			10:41	70.71	1.026	5.69	7.24	254.7		
			10:44	71.35	1.005	5.66	7.24	258.7		
			10:47	71.73	0.983	5.62	7.25	260.0		
			10:50	72.04	0.949	5.51	7.25	264.6		
			10:53	72.01	0.947	5.50	7.25	264.8		
			10:56	72.02	0.946	5.50	7.25	264.7		
			10:59	72.01	0.947	5.49	7.25	264.6		
			11:00						SAMPLED	for all parameters, used the bladder pump.
EB-1			11:15	---	---	---	---	---	6/30/2014	
									Sampled through peristaltic pump	

Appendix E

Laboratory Analytical Reports &
Level III QA/QC Data

Former Indiana University Food Storage Building
600 N. Rogers Street
Bloomington, Indiana 47404

Level III QA/QC Data

Note: Level III Data Packages included in electronic form on CD

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June 03, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Bloomington CTP 14-127
Pace Project No.:	5098216

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098216001	**SB-20 (8-9.5)**	Solid	05/20/14 15:40	05/22/14 17:57
5098216002	**SB-3 (6-7.5)**	Solid	05/21/14 14:10	05/22/14 17:57
5098216003	**SB-18 (10-11.5)**	Solid	05/20/14 13:55	05/22/14 17:57
5098216004	**SB-18 (4-6)**	Solid	05/20/14 13:50	05/22/14 17:57
5098216005	**SB-7 (4-6)**	Solid	05/21/14 10:25	05/22/14 17:57
5098216006	**SB-7 (10-11.5)**	Solid	05/21/14 10:30	05/22/14 17:57
5098216007	**SB-11 (8-10)**	Solid	05/21/14 14:40	05/22/14 17:57
5098216008	**SB-21 (2-4)**	Solid	05/21/14 09:30	05/22/14 17:57
5098216009	**SB-23 (12-14)**	Solid	05/21/14 11:30	05/22/14 17:57
5098216010	**SB-24 (10-11.5)**	Solid	05/21/14 08:50	05/22/14 17:57
5098216011	**SB-4 (10-11)**	Solid	05/21/14 13:30	05/22/14 17:57
5098216012	**SB-15 (14-15)**	Solid	05/20/14 15:10	05/22/14 17:57
5098216013	**SB-21 (8-10)**	Solid	05/21/14 09:35	05/22/14 17:57

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5098216001	**SB-20 (8-9.5)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216002	**SB-3 (6-7.5)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216003	**SB-18 (10-11.5)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216004	**SB-18 (4-6)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216005	**SB-7 (4-6)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216006	**SB-7 (10-11.5)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216007	**SB-11 (8-10)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216008	**SB-21 (2-4)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216009	**SB-23 (12-14)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216010	**SB-24 (10-11.5)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216011	**SB-4 (10-11)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216012	**SB-15 (14-15)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1
5098216013	**SB-21 (8-10)**	EPA 8260	BJG	73
		ASTM D2974-87	MLS	1

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-20 (8-9.5) **Lab ID: 5098216001** Collected: 05/20/14 15:40 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/01/14 08:55	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/01/14 08:55	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/01/14 08:55	107-13-1	
Benzene	ND	mg/kg	0.0066	1		06/01/14 08:55	71-43-2	
Bromobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	108-86-1	
Bromochloromethane	ND	mg/kg	0.0066	1		06/01/14 08:55	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0066	1		06/01/14 08:55	75-27-4	
Bromoform	ND	mg/kg	0.0066	1		06/01/14 08:55	75-25-2	
Bromomethane	ND	mg/kg	0.0066	1		06/01/14 08:55	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.033	1		06/01/14 08:55	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/01/14 08:55	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0066	1		06/01/14 08:55	56-23-5	
Chlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	108-90-7	
Chloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	75-00-3	
Chloroform	ND	mg/kg	0.0066	1		06/01/14 08:55	67-66-3	
Chloromethane	ND	mg/kg	0.0066	1		06/01/14 08:55	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0066	1		06/01/14 08:55	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0066	1		06/01/14 08:55	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0066	1		06/01/14 08:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0066	1		06/01/14 08:55	106-93-4	
Dibromomethane	ND	mg/kg	0.0066	1		06/01/14 08:55	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/01/14 08:55	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0066	1		06/01/14 08:55	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 08:55	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 08:55	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 08:55	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 08:55	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 08:55	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 08:55	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 08:55	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 08:55	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 08:55	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/01/14 08:55	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0066	1		06/01/14 08:55	87-68-3	
n-Hexane	ND	mg/kg	0.0066	1		06/01/14 08:55	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/01/14 08:55	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/01/14 08:55	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-20 (8-9.5) **Lab ID: 5098216001** Collected: 05/20/14 15:40 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0066	1		06/01/14 08:55	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0066	1		06/01/14 08:55	99-87-6	
Methylene Chloride	ND	mg/kg	0.026	1		06/01/14 08:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.033	1		06/01/14 08:55	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0066	1		06/01/14 08:55	1634-04-4	
Naphthalene	ND	mg/kg	0.0066	1		06/01/14 08:55	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	103-65-1	
Styrene	ND	mg/kg	0.0066	1		06/01/14 08:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0066	1		06/01/14 08:55	127-18-4	
Toluene	ND	mg/kg	0.0066	1		06/01/14 08:55	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0066	1		06/01/14 08:55	79-00-5	
Trichloroethene	ND	mg/kg	0.0066	1		06/01/14 08:55	79-01-6	
Trichlorofluoromethane	**0.0080**	mg/kg	0.0066	1		06/01/14 08:55	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0066	1		06/01/14 08:55	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0066	1		06/01/14 08:55	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/01/14 08:55	108-05-4	
Vinyl chloride	ND	mg/kg	0.0066	1		06/01/14 08:55	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/01/14 08:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		06/01/14 08:55	1868-53-7	
Toluene-d8 (S)	94	%.	71-128	1		06/01/14 08:55	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	56-144	1		06/01/14 08:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**32.8**	%	0.10	1		05/29/14 12:16		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-3 (6-7.5) **Lab ID: 5098216002** Collected: 05/21/14 14:10 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	3.5	25		05/31/14 21:43	67-64-1	
Acrolein	ND	mg/kg	3.5	25		05/31/14 21:43	107-02-8	
Acrylonitrile	ND	mg/kg	3.5	25		05/31/14 21:43	107-13-1	
Benzene	ND	mg/kg	0.18	25		05/31/14 21:43	71-43-2	1d
Bromobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.18	25		05/31/14 21:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.18	25		05/31/14 21:43	75-27-4	
Bromoform	ND	mg/kg	0.18	25		05/31/14 21:43	75-25-2	
Bromomethane	ND	mg/kg	0.18	25		05/31/14 21:43	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.88	25		05/31/14 21:43	78-93-3	
n-Butylbenzene	**1.6**	mg/kg	0.18	25		05/31/14 21:43	104-51-8	
sec-Butylbenzene	**0.80**	mg/kg	0.18	25		05/31/14 21:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.18	25		05/31/14 21:43	98-06-6	
Carbon disulfide	ND	mg/kg	0.35	25		05/31/14 21:43	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.18	25		05/31/14 21:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	108-90-7	
Chloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	75-00-3	
Chloroform	ND	mg/kg	0.18	25		05/31/14 21:43	67-66-3	
Chloromethane	ND	mg/kg	0.18	25		05/31/14 21:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.18	25		05/31/14 21:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.18	25		05/31/14 21:43	106-43-4	
Dibromochloromethane	ND	mg/kg	0.18	25		05/31/14 21:43	124-48-1	
1,2-Dibromoethane (EDB)	**0.20**	mg/kg	0.18	25		05/31/14 21:43	106-93-4	
Dibromomethane	ND	mg/kg	0.18	25		05/31/14 21:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	3.5	25		05/31/14 21:43	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.18	25		05/31/14 21:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.18	25		05/31/14 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.18	25		05/31/14 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.18	25		05/31/14 21:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.18	25		05/31/14 21:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.18	25		05/31/14 21:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.18	25		05/31/14 21:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.18	25		05/31/14 21:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.18	25		05/31/14 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.18	25		05/31/14 21:43	10061-02-6	
Ethylbenzene	ND	mg/kg	0.18	25		05/31/14 21:43	100-41-4	
Ethyl methacrylate	ND	mg/kg	3.5	25		05/31/14 21:43	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.18	25		05/31/14 21:43	87-68-3	
n-Hexane	ND	mg/kg	0.18	25		05/31/14 21:43	110-54-3	N2
2-Hexanone	ND	mg/kg	3.5	25		05/31/14 21:43	591-78-6	
Iodomethane	ND	mg/kg	3.5	25		05/31/14 21:43	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-3 (6-7.5) **Lab ID: 5098216002** Collected: 05/21/14 14:10 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**0.27**	mg/kg	0.18	25		05/31/14 21:43	98-82-8	
p-Isopropyltoluene	**0.19**	mg/kg	0.18	25		05/31/14 21:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.70	25		05/31/14 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.88	25		05/31/14 21:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.18	25		05/31/14 21:43	1634-04-4	2d
Naphthalene	**0.31**	mg/kg	0.18	25		05/31/14 21:43	91-20-3	
n-Propylbenzene	**1.5**	mg/kg	0.18	25		05/31/14 21:43	103-65-1	
Styrene	ND	mg/kg	0.18	25		05/31/14 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.18	25		05/31/14 21:43	127-18-4	
Toluene	ND	mg/kg	0.18	25		05/31/14 21:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.18	25		05/31/14 21:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.18	25		05/31/14 21:43	79-00-5	
Trichloroethene	ND	mg/kg	0.18	25		05/31/14 21:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.18	25		05/31/14 21:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.18	25		05/31/14 21:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.18	25		05/31/14 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.18	25		05/31/14 21:43	108-67-8	
Vinyl acetate	ND	mg/kg	3.5	25		05/31/14 21:43	108-05-4	
Vinyl chloride	ND	mg/kg	0.18	25		05/31/14 21:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.35	25		05/31/14 21:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	82	%.	85-118	25		05/31/14 21:43	1868-53-7	D3,S5
Toluene-d8 (S)	132	%.	71-128	25		05/31/14 21:43	2037-26-5	S5
4-Bromofluorobenzene (S)	140	%.	56-144	25		05/31/14 21:43	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.6**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-18 (10-11.5) **Lab ID: 5098216003** Collected: 05/20/14 13:55 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/01/14 09:35	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/01/14 09:35	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/01/14 09:35	107-13-1	
Benzene	ND	mg/kg	0.0063	1		06/01/14 09:35	71-43-2	
Bromobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	108-86-1	
Bromochloromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	75-27-4	
Bromoform	ND	mg/kg	0.0063	1		06/01/14 09:35	75-25-2	
Bromomethane	ND	mg/kg	0.0063	1		06/01/14 09:35	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.032	1		06/01/14 09:35	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/01/14 09:35	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0063	1		06/01/14 09:35	56-23-5	
Chlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	108-90-7	
Chloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	75-00-3	
Chloroform	ND	mg/kg	0.0063	1		06/01/14 09:35	67-66-3	
Chloromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0063	1		06/01/14 09:35	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0063	1		06/01/14 09:35	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0063	1		06/01/14 09:35	106-93-4	
Dibromomethane	ND	mg/kg	0.0063	1		06/01/14 09:35	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/01/14 09:35	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 09:35	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 09:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 09:35	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 09:35	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 09:35	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 09:35	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 09:35	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 09:35	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 09:35	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/01/14 09:35	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0063	1		06/01/14 09:35	87-68-3	
n-Hexane	ND	mg/kg	0.0063	1		06/01/14 09:35	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/01/14 09:35	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/01/14 09:35	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-18 (10-11.5) **Lab ID: 5098216003** Collected: 05/20/14 13:55 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0063	1		06/01/14 09:35	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0063	1		06/01/14 09:35	99-87-6	
Methylene Chloride	ND	mg/kg	0.025	1		06/01/14 09:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.032	1		06/01/14 09:35	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0063	1		06/01/14 09:35	1634-04-4	
Naphthalene	ND	mg/kg	0.0063	1		06/01/14 09:35	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	103-65-1	
Styrene	ND	mg/kg	0.0063	1		06/01/14 09:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0063	1		06/01/14 09:35	127-18-4	
Toluene	ND	mg/kg	0.0063	1		06/01/14 09:35	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0063	1		06/01/14 09:35	79-00-5	
Trichloroethene	ND	mg/kg	0.0063	1		06/01/14 09:35	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0063	1		06/01/14 09:35	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0063	1		06/01/14 09:35	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0063	1		06/01/14 09:35	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/01/14 09:35	108-05-4	
Vinyl chloride	ND	mg/kg	0.0063	1		06/01/14 09:35	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/01/14 09:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	85-118	1		06/01/14 09:35	1868-53-7	
Toluene-d8 (S)	98	%.	71-128	1		06/01/14 09:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	56-144	1		06/01/14 09:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**32.7**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-18 (4-6) **Lab ID: 5098216004** Collected: 05/20/14 13:50 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.082	1		06/01/14 10:14	67-64-1	
Acrolein	ND	mg/kg	0.082	1		06/01/14 10:14	107-02-8	
Acrylonitrile	ND	mg/kg	0.082	1		06/01/14 10:14	107-13-1	
Benzene	ND	mg/kg	0.0041	1		06/01/14 10:14	71-43-2	
Bromobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	108-86-1	
Bromochloromethane	ND	mg/kg	0.0041	1		06/01/14 10:14	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0041	1		06/01/14 10:14	75-27-4	
Bromoform	ND	mg/kg	0.0041	1		06/01/14 10:14	75-25-2	
Bromomethane	ND	mg/kg	0.0041	1		06/01/14 10:14	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.020	1		06/01/14 10:14	78-93-3	
n-Butylbenzene	**0.0049**	mg/kg	0.0041	1		06/01/14 10:14	104-51-8	
sec-Butylbenzene	**0.0042**	mg/kg	0.0041	1		06/01/14 10:14	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	98-06-6	
Carbon disulfide	ND	mg/kg	0.0082	1		06/01/14 10:14	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0041	1		06/01/14 10:14	56-23-5	
Chlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	108-90-7	
Chloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	75-00-3	
Chloroform	ND	mg/kg	0.0041	1		06/01/14 10:14	67-66-3	
Chloromethane	ND	mg/kg	0.0041	1		06/01/14 10:14	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0041	1		06/01/14 10:14	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0041	1		06/01/14 10:14	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0041	1		06/01/14 10:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0041	1		06/01/14 10:14	106-93-4	
Dibromomethane	ND	mg/kg	0.0041	1		06/01/14 10:14	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.082	1		06/01/14 10:14	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0041	1		06/01/14 10:14	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0041	1		06/01/14 10:14	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0041	1		06/01/14 10:14	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0041	1		06/01/14 10:14	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0041	1		06/01/14 10:14	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0041	1		06/01/14 10:14	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0041	1		06/01/14 10:14	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0041	1		06/01/14 10:14	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0041	1		06/01/14 10:14	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0041	1		06/01/14 10:14	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.082	1		06/01/14 10:14	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0041	1		06/01/14 10:14	87-68-3	
n-Hexane	ND	mg/kg	0.0041	1		06/01/14 10:14	110-54-3	N2
2-Hexanone	ND	mg/kg	0.082	1		06/01/14 10:14	591-78-6	
Iodomethane	ND	mg/kg	0.082	1		06/01/14 10:14	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-18 (4-6) **Lab ID: 5098216004** Collected: 05/20/14 13:50 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0041	1		06/01/14 10:14	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0041	1		06/01/14 10:14	99-87-6	
Methylene Chloride	ND	mg/kg	0.016	1		06/01/14 10:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.020	1		06/01/14 10:14	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0041	1		06/01/14 10:14	1634-04-4	
Naphthalene	**0.0082**	mg/kg	0.0041	1		06/01/14 10:14	91-20-3	CC
n-Propylbenzene	**0.0049**	mg/kg	0.0041	1		06/01/14 10:14	103-65-1	
Styrene	ND	mg/kg	0.0041	1		06/01/14 10:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0041	1		06/01/14 10:14	127-18-4	
Toluene	ND	mg/kg	0.0041	1		06/01/14 10:14	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0041	1		06/01/14 10:14	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0041	1		06/01/14 10:14	79-00-5	
Trichloroethene	ND	mg/kg	0.0041	1		06/01/14 10:14	79-01-6	
Trichlorofluoromethane	**0.025**	mg/kg	0.0041	1		06/01/14 10:14	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0041	1		06/01/14 10:14	96-18-4	
1,2,4-Trimethylbenzene	**0.014**	mg/kg	0.0041	1		06/01/14 10:14	95-63-6	CC
1,3,5-Trimethylbenzene	**0.0082**	mg/kg	0.0041	1		06/01/14 10:14	108-67-8	
Vinyl acetate	ND	mg/kg	0.082	1		06/01/14 10:14	108-05-4	
Vinyl chloride	ND	mg/kg	0.0041	1		06/01/14 10:14	75-01-4	
Xylene (Total)	ND	mg/kg	0.0082	1		06/01/14 10:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	85-118	1		06/01/14 10:14	1868-53-7	
Toluene-d8 (S)	93	%.	71-128	1		06/01/14 10:14	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	56-144	1		06/01/14 10:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.7**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-7 (4-6) **Lab ID: 5098216005** Collected: 05/21/14 10:25 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		06/01/14 12:13	67-64-1	
Acrolein	ND	mg/kg	0.11	1		06/01/14 12:13	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		06/01/14 12:13	107-13-1	
Benzene	ND	mg/kg	0.0053	1		06/01/14 12:13	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		06/01/14 12:13	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		06/01/14 12:13	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		06/01/14 12:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		06/01/14 12:13	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		06/01/14 12:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		06/01/14 12:13	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		06/01/14 12:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		06/01/14 12:13	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		06/01/14 12:13	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		06/01/14 12:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		06/01/14 12:13	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 12:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 12:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 12:13	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 12:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 12:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 12:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 12:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 12:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 12:13	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		06/01/14 12:13	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		06/01/14 12:13	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		06/01/14 12:13	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		06/01/14 12:13	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		06/01/14 12:13	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-7 (4-6) **Lab ID: 5098216005** Collected: 05/21/14 10:25 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		06/01/14 12:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		06/01/14 12:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		06/01/14 12:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		06/01/14 12:13	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		06/01/14 12:13	1634-04-4	
Naphthalene	ND	mg/kg	0.0053	1		06/01/14 12:13	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	103-65-1	
Styrene	ND	mg/kg	0.0053	1		06/01/14 12:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		06/01/14 12:13	127-18-4	
Toluene	ND	mg/kg	0.0053	1		06/01/14 12:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		06/01/14 12:13	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		06/01/14 12:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		06/01/14 12:13	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		06/01/14 12:13	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		06/01/14 12:13	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		06/01/14 12:13	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		06/01/14 12:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		06/01/14 12:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	124	%.	85-118	1		06/01/14 12:13	1868-53-7	S3
Toluene-d8 (S)	114	%.	71-128	1		06/01/14 12:13	2037-26-5	
4-Bromofluorobenzene (S)	71	%.	56-144	1		06/01/14 12:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.8**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-7 (10-11.5) **Lab ID: 5098216006** Collected: 05/21/14 10:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.12	1		06/01/14 12:52	67-64-1	
Acrolein	ND	mg/kg	0.12	1		06/01/14 12:52	107-02-8	
Acrylonitrile	ND	mg/kg	0.12	1		06/01/14 12:52	107-13-1	
Benzene	ND	mg/kg	0.0058	1		06/01/14 12:52	71-43-2	
Bromobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	108-86-1	
Bromochloromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	75-27-4	
Bromoform	ND	mg/kg	0.0058	1		06/01/14 12:52	75-25-2	
Bromomethane	ND	mg/kg	0.0058	1		06/01/14 12:52	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.029	1		06/01/14 12:52	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	98-06-6	
Carbon disulfide	ND	mg/kg	0.012	1		06/01/14 12:52	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0058	1		06/01/14 12:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	108-90-7	
Chloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	75-00-3	
Chloroform	ND	mg/kg	0.0058	1		06/01/14 12:52	67-66-3	
Chloromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0058	1		06/01/14 12:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0058	1		06/01/14 12:52	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0058	1		06/01/14 12:52	106-93-4	
Dibromomethane	ND	mg/kg	0.0058	1		06/01/14 12:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.12	1		06/01/14 12:52	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0058	1		06/01/14 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0058	1		06/01/14 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0058	1		06/01/14 12:52	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0058	1		06/01/14 12:52	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0058	1		06/01/14 12:52	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0058	1		06/01/14 12:52	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0058	1		06/01/14 12:52	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0058	1		06/01/14 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0058	1		06/01/14 12:52	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.12	1		06/01/14 12:52	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0058	1		06/01/14 12:52	87-68-3	
n-Hexane	ND	mg/kg	0.0058	1		06/01/14 12:52	110-54-3	N2
2-Hexanone	ND	mg/kg	0.12	1		06/01/14 12:52	591-78-6	
Iodomethane	ND	mg/kg	0.12	1		06/01/14 12:52	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-7 (10-11.5) **Lab ID: 5098216006** Collected: 05/21/14 10:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0058	1		06/01/14 12:52	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0058	1		06/01/14 12:52	99-87-6	
Methylene Chloride	ND	mg/kg	0.023	1		06/01/14 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.029	1		06/01/14 12:52	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0058	1		06/01/14 12:52	1634-04-4	
Naphthalene	ND	mg/kg	0.0058	1		06/01/14 12:52	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	103-65-1	
Styrene	ND	mg/kg	0.0058	1		06/01/14 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0058	1		06/01/14 12:52	127-18-4	
Toluene	ND	mg/kg	0.0058	1		06/01/14 12:52	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0058	1		06/01/14 12:52	79-00-5	
Trichloroethene	ND	mg/kg	0.0058	1		06/01/14 12:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0058	1		06/01/14 12:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0058	1		06/01/14 12:52	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0058	1		06/01/14 12:52	108-67-8	
Vinyl acetate	ND	mg/kg	0.12	1		06/01/14 12:52	108-05-4	
Vinyl chloride	ND	mg/kg	0.0058	1		06/01/14 12:52	75-01-4	
Xylene (Total)	ND	mg/kg	0.012	1		06/01/14 12:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	85-118	1		06/01/14 12:52	1868-53-7	
Toluene-d8 (S)	96	%.	71-128	1		06/01/14 12:52	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	56-144	1		06/01/14 12:52	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.4**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-11 (8-10) **Lab ID: 5098216007** Collected: 05/21/14 14:40 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		06/01/14 13:32	67-64-1	
Acrolein	ND	mg/kg	0.10	1		06/01/14 13:32	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		06/01/14 13:32	107-13-1	
Benzene	ND	mg/kg	0.0050	1		06/01/14 13:32	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		06/01/14 13:32	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		06/01/14 13:32	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		06/01/14 13:32	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		06/01/14 13:32	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		06/01/14 13:32	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		06/01/14 13:32	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		06/01/14 13:32	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		06/01/14 13:32	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		06/01/14 13:32	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		06/01/14 13:32	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		06/01/14 13:32	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:32	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:32	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:32	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:32	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:32	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:32	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		06/01/14 13:32	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		06/01/14 13:32	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		06/01/14 13:32	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		06/01/14 13:32	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		06/01/14 13:32	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-11 (8-10) **Lab ID: 5098216007** Collected: 05/21/14 14:40 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		06/01/14 13:32	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		06/01/14 13:32	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		06/01/14 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		06/01/14 13:32	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		06/01/14 13:32	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		06/01/14 13:32	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	103-65-1	
Styrene	ND	mg/kg	0.0050	1		06/01/14 13:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		06/01/14 13:32	127-18-4	
Toluene	ND	mg/kg	0.0050	1		06/01/14 13:32	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:32	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:32	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		06/01/14 13:32	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:32	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:32	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		06/01/14 13:32	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		06/01/14 13:32	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		06/01/14 13:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	121	%.	85-118	1		06/01/14 13:32	1868-53-7	S3
Toluene-d8 (S)	94	%.	71-128	1		06/01/14 13:32	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	56-144	1		06/01/14 13:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.7**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-21 (2-4) **Lab ID: 5098216008** Collected: 05/21/14 09:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.18	1		06/02/14 16:56	67-64-1	
Acrolein	ND	mg/kg	0.18	1		06/02/14 16:56	107-02-8	
Acrylonitrile	ND	mg/kg	0.18	1		06/02/14 16:56	107-13-1	
Benzene	ND	mg/kg	0.0092	1		06/02/14 16:56	71-43-2	
Bromobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	75-27-4	
Bromoform	ND	mg/kg	0.0092	1		06/02/14 16:56	75-25-2	
Bromomethane	ND	mg/kg	0.0092	1		06/02/14 16:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.046	1		06/02/14 16:56	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	98-06-6	
Carbon disulfide	ND	mg/kg	0.018	1		06/02/14 16:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0092	1		06/02/14 16:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	108-90-7	
Chloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	75-00-3	
Chloroform	ND	mg/kg	0.0092	1		06/02/14 16:56	67-66-3	
Chloromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0092	1		06/02/14 16:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0092	1		06/02/14 16:56	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0092	1		06/02/14 16:56	106-93-4	
Dibromomethane	ND	mg/kg	0.0092	1		06/02/14 16:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.18	1		06/02/14 16:56	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0092	1		06/02/14 16:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0092	1		06/02/14 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0092	1		06/02/14 16:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0092	1		06/02/14 16:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0092	1		06/02/14 16:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0092	1		06/02/14 16:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0092	1		06/02/14 16:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0092	1		06/02/14 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0092	1		06/02/14 16:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.18	1		06/02/14 16:56	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0092	1		06/02/14 16:56	87-68-3	
n-Hexane	ND	mg/kg	0.0092	1		06/02/14 16:56	110-54-3	N2
2-Hexanone	ND	mg/kg	0.18	1		06/02/14 16:56	591-78-6	
Iodomethane	ND	mg/kg	0.18	1		06/02/14 16:56	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-21 (2-4) **Lab ID: 5098216008** Collected: 05/21/14 09:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0092	1		06/02/14 16:56	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0092	1		06/02/14 16:56	99-87-6	
Methylene Chloride	ND	mg/kg	0.037	1		06/02/14 16:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.046	1		06/02/14 16:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0092	1		06/02/14 16:56	1634-04-4	
Naphthalene	ND	mg/kg	0.0092	1		06/02/14 16:56	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	103-65-1	
Styrene	ND	mg/kg	0.0092	1		06/02/14 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0092	1		06/02/14 16:56	127-18-4	
Toluene	ND	mg/kg	0.0092	1		06/02/14 16:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0092	1		06/02/14 16:56	79-00-5	
Trichloroethene	ND	mg/kg	0.0092	1		06/02/14 16:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0092	1		06/02/14 16:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0092	1		06/02/14 16:56	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0092	1		06/02/14 16:56	108-67-8	
Vinyl acetate	ND	mg/kg	0.18	1		06/02/14 16:56	108-05-4	
Vinyl chloride	ND	mg/kg	0.0092	1		06/02/14 16:56	75-01-4	
Xylene (Total)	ND	mg/kg	0.018	1		06/02/14 16:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	130	%.	85-118	1		06/02/14 16:56	1868-53-7	S3
Toluene-d8 (S)	122	%.	71-128	1		06/02/14 16:56	2037-26-5	
4-Bromofluorobenzene (S)	63	%.	56-144	1		06/02/14 16:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.0**	%	0.10	1		05/29/14 12:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-23 (12-14) **Lab ID: 5098216009** Collected: 05/21/14 11:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.14	1		06/02/14 17:35	67-64-1	
Acrolein	ND	mg/kg	0.14	1		06/02/14 17:35	107-02-8	
Acrylonitrile	ND	mg/kg	0.14	1		06/02/14 17:35	107-13-1	
Benzene	ND	mg/kg	0.0068	1		06/02/14 17:35	71-43-2	
Bromobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	108-86-1	
Bromochloromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	75-27-4	
Bromoform	ND	mg/kg	0.0068	1		06/02/14 17:35	75-25-2	
Bromomethane	ND	mg/kg	0.0068	1		06/02/14 17:35	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.034	1		06/02/14 17:35	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	98-06-6	
Carbon disulfide	ND	mg/kg	0.014	1		06/02/14 17:35	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0068	1		06/02/14 17:35	56-23-5	
Chlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	108-90-7	
Chloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	75-00-3	
Chloroform	ND	mg/kg	0.0068	1		06/02/14 17:35	67-66-3	
Chloromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0068	1		06/02/14 17:35	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0068	1		06/02/14 17:35	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0068	1		06/02/14 17:35	106-93-4	
Dibromomethane	ND	mg/kg	0.0068	1		06/02/14 17:35	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.14	1		06/02/14 17:35	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0068	1		06/02/14 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0068	1		06/02/14 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0068	1		06/02/14 17:35	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0068	1		06/02/14 17:35	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0068	1		06/02/14 17:35	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0068	1		06/02/14 17:35	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0068	1		06/02/14 17:35	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0068	1		06/02/14 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0068	1		06/02/14 17:35	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.14	1		06/02/14 17:35	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0068	1		06/02/14 17:35	87-68-3	
n-Hexane	ND	mg/kg	0.0068	1		06/02/14 17:35	110-54-3	N2
2-Hexanone	ND	mg/kg	0.14	1		06/02/14 17:35	591-78-6	
Iodomethane	ND	mg/kg	0.14	1		06/02/14 17:35	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-23 (12-14) **Lab ID: 5098216009** Collected: 05/21/14 11:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0068	1		06/02/14 17:35	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0068	1		06/02/14 17:35	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	1		06/02/14 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.034	1		06/02/14 17:35	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0068	1		06/02/14 17:35	1634-04-4	
Naphthalene	ND	mg/kg	0.0068	1		06/02/14 17:35	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	103-65-1	
Styrene	ND	mg/kg	0.0068	1		06/02/14 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0068	1		06/02/14 17:35	127-18-4	
Toluene	ND	mg/kg	0.0068	1		06/02/14 17:35	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0068	1		06/02/14 17:35	79-00-5	
Trichloroethene	ND	mg/kg	0.0068	1		06/02/14 17:35	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0068	1		06/02/14 17:35	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0068	1		06/02/14 17:35	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0068	1		06/02/14 17:35	108-67-8	
Vinyl acetate	ND	mg/kg	0.14	1		06/02/14 17:35	108-05-4	
Vinyl chloride	ND	mg/kg	0.0068	1		06/02/14 17:35	75-01-4	
Xylene (Total)	ND	mg/kg	0.014	1		06/02/14 17:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		06/02/14 17:35	1868-53-7	
Toluene-d8 (S)	96	%.	71-128	1		06/02/14 17:35	2037-26-5	
4-Bromofluorobenzene (S)	86	%.	56-144	1		06/02/14 17:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.8**	%	0.10	1		05/29/14 12:18		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-24 (10-11.5) **Lab ID: 5098216010** Collected: 05/21/14 08:50 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/02/14 18:15	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/02/14 18:15	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/02/14 18:15	107-13-1	
Benzene	ND	mg/kg	0.0067	1		06/02/14 18:15	71-43-2	
Bromobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	108-86-1	
Bromochloromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	75-27-4	
Bromoform	ND	mg/kg	0.0067	1		06/02/14 18:15	75-25-2	
Bromomethane	ND	mg/kg	0.0067	1		06/02/14 18:15	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.034	1		06/02/14 18:15	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/02/14 18:15	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0067	1		06/02/14 18:15	56-23-5	
Chlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	108-90-7	
Chloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	75-00-3	
Chloroform	ND	mg/kg	0.0067	1		06/02/14 18:15	67-66-3	
Chloromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0067	1		06/02/14 18:15	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0067	1		06/02/14 18:15	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0067	1		06/02/14 18:15	106-93-4	
Dibromomethane	ND	mg/kg	0.0067	1		06/02/14 18:15	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/02/14 18:15	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 18:15	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 18:15	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 18:15	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 18:15	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 18:15	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 18:15	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 18:15	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/02/14 18:15	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0067	1		06/02/14 18:15	87-68-3	
n-Hexane	ND	mg/kg	0.0067	1		06/02/14 18:15	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/02/14 18:15	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/02/14 18:15	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-24 (10-11.5) **Lab ID: 5098216010** Collected: 05/21/14 08:50 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0067	1		06/02/14 18:15	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0067	1		06/02/14 18:15	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	1		06/02/14 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.034	1		06/02/14 18:15	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0067	1		06/02/14 18:15	1634-04-4	
Naphthalene	ND	mg/kg	0.0067	1		06/02/14 18:15	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	103-65-1	
Styrene	ND	mg/kg	0.0067	1		06/02/14 18:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0067	1		06/02/14 18:15	127-18-4	
Toluene	ND	mg/kg	0.0067	1		06/02/14 18:15	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0067	1		06/02/14 18:15	79-00-5	
Trichloroethene	ND	mg/kg	0.0067	1		06/02/14 18:15	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0067	1		06/02/14 18:15	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0067	1		06/02/14 18:15	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0067	1		06/02/14 18:15	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/02/14 18:15	108-05-4	
Vinyl chloride	ND	mg/kg	0.0067	1		06/02/14 18:15	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/02/14 18:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	85-118	1		06/02/14 18:15	1868-53-7	
Toluene-d8 (S)	94	%.	71-128	1		06/02/14 18:15	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	56-144	1		06/02/14 18:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**33.5**	%	0.10	1		05/29/14 12:18		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-4 (10-11) **Lab ID: 5098216011** Collected: 05/21/14 13:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.088	1		06/02/14 18:54	67-64-1	
Acrolein	ND	mg/kg	0.088	1		06/02/14 18:54	107-02-8	
Acrylonitrile	ND	mg/kg	0.088	1		06/02/14 18:54	107-13-1	
Benzene	ND	mg/kg	0.0044	1		06/02/14 18:54	71-43-2	
Bromobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	108-86-1	
Bromochloromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	75-27-4	
Bromoform	ND	mg/kg	0.0044	1		06/02/14 18:54	75-25-2	
Bromomethane	ND	mg/kg	0.0044	1		06/02/14 18:54	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		06/02/14 18:54	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	98-06-6	
Carbon disulfide	ND	mg/kg	0.0088	1		06/02/14 18:54	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0044	1		06/02/14 18:54	56-23-5	
Chlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	108-90-7	
Chloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	75-00-3	
Chloroform	ND	mg/kg	0.0044	1		06/02/14 18:54	67-66-3	
Chloromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0044	1		06/02/14 18:54	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0044	1		06/02/14 18:54	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		06/02/14 18:54	106-93-4	
Dibromomethane	ND	mg/kg	0.0044	1		06/02/14 18:54	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.088	1		06/02/14 18:54	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0044	1		06/02/14 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		06/02/14 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		06/02/14 18:54	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0044	1		06/02/14 18:54	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0044	1		06/02/14 18:54	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0044	1		06/02/14 18:54	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0044	1		06/02/14 18:54	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		06/02/14 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		06/02/14 18:54	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.088	1		06/02/14 18:54	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		06/02/14 18:54	87-68-3	
n-Hexane	ND	mg/kg	0.0044	1		06/02/14 18:54	110-54-3	N2
2-Hexanone	ND	mg/kg	0.088	1		06/02/14 18:54	591-78-6	
Iodomethane	ND	mg/kg	0.088	1		06/02/14 18:54	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-4 (10-11) **Lab ID: 5098216011** Collected: 05/21/14 13:30 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		06/02/14 18:54	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0044	1		06/02/14 18:54	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		06/02/14 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		06/02/14 18:54	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		06/02/14 18:54	1634-04-4	
Naphthalene	ND	mg/kg	0.0044	1		06/02/14 18:54	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	103-65-1	
Styrene	ND	mg/kg	0.0044	1		06/02/14 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0044	1		06/02/14 18:54	127-18-4	
Toluene	ND	mg/kg	0.0044	1		06/02/14 18:54	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		06/02/14 18:54	79-00-5	
Trichloroethene	ND	mg/kg	0.0044	1		06/02/14 18:54	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0044	1		06/02/14 18:54	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		06/02/14 18:54	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		06/02/14 18:54	108-67-8	
Vinyl acetate	ND	mg/kg	0.088	1		06/02/14 18:54	108-05-4	
Vinyl chloride	ND	mg/kg	0.0044	1		06/02/14 18:54	75-01-4	
Xylene (Total)	ND	mg/kg	0.0088	1		06/02/14 18:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	85-118	1		06/02/14 18:54	1868-53-7	
Toluene-d8 (S)	93	%.	71-128	1		06/02/14 18:54	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	56-144	1		06/02/14 18:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.0**	%	0.10	1		05/29/14 12:18		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-15 (14-15) **Lab ID: 5098216012** Collected: 05/20/14 15:10 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/02/14 16:16	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/02/14 16:16	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/02/14 16:16	107-13-1	
Benzene	ND	mg/kg	0.0067	1		06/02/14 16:16	71-43-2	
Bromobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	108-86-1	
Bromochloromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	75-27-4	
Bromoform	ND	mg/kg	0.0067	1		06/02/14 16:16	75-25-2	
Bromomethane	ND	mg/kg	0.0067	1		06/02/14 16:16	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.033	1		06/02/14 16:16	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/02/14 16:16	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0067	1		06/02/14 16:16	56-23-5	
Chlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	108-90-7	
Chloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	75-00-3	
Chloroform	ND	mg/kg	0.0067	1		06/02/14 16:16	67-66-3	
Chloromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0067	1		06/02/14 16:16	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0067	1		06/02/14 16:16	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0067	1		06/02/14 16:16	106-93-4	
Dibromomethane	ND	mg/kg	0.0067	1		06/02/14 16:16	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/02/14 16:16	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0067	1		06/02/14 16:16	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 16:16	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 16:16	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0067	1		06/02/14 16:16	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 16:16	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0067	1		06/02/14 16:16	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/02/14 16:16	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0067	1		06/02/14 16:16	87-68-3	
n-Hexane	ND	mg/kg	0.0067	1		06/02/14 16:16	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/02/14 16:16	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/02/14 16:16	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-15 (14-15) **Lab ID: 5098216012** Collected: 05/20/14 15:10 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0067	1		06/02/14 16:16	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0067	1		06/02/14 16:16	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	1		06/02/14 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.033	1		06/02/14 16:16	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0067	1		06/02/14 16:16	1634-04-4	
Naphthalene	ND	mg/kg	0.0067	1		06/02/14 16:16	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	103-65-1	
Styrene	ND	mg/kg	0.0067	1		06/02/14 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0067	1		06/02/14 16:16	127-18-4	
Toluene	ND	mg/kg	0.0067	1		06/02/14 16:16	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0067	1		06/02/14 16:16	79-00-5	
Trichloroethene	ND	mg/kg	0.0067	1		06/02/14 16:16	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0067	1		06/02/14 16:16	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0067	1		06/02/14 16:16	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0067	1		06/02/14 16:16	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/02/14 16:16	108-05-4	
Vinyl chloride	ND	mg/kg	0.0067	1		06/02/14 16:16	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/02/14 16:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	85-118	1		06/02/14 16:16	1868-53-7	
Toluene-d8 (S)	95	%.	71-128	1		06/02/14 16:16	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	56-144	1		06/02/14 16:16	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**32.6**	%	0.10	1		05/29/14 12:18		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-21 (8-10) **Lab ID: 5098216013** Collected: 05/21/14 09:35 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/01/14 14:11	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/01/14 14:11	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/01/14 14:11	107-13-1	
Benzene	ND	mg/kg	0.0066	1		06/01/14 14:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	75-27-4	
Bromoform	ND	mg/kg	0.0066	1		06/01/14 14:11	75-25-2	
Bromomethane	ND	mg/kg	0.0066	1		06/01/14 14:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.033	1		06/01/14 14:11	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/01/14 14:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0066	1		06/01/14 14:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	108-90-7	
Chloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	75-00-3	
Chloroform	ND	mg/kg	0.0066	1		06/01/14 14:11	67-66-3	
Chloromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0066	1		06/01/14 14:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0066	1		06/01/14 14:11	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0066	1		06/01/14 14:11	106-93-4	
Dibromomethane	ND	mg/kg	0.0066	1		06/01/14 14:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/01/14 14:11	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 14:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 14:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0066	1		06/01/14 14:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 14:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 14:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0066	1		06/01/14 14:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 14:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 14:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0066	1		06/01/14 14:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/01/14 14:11	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0066	1		06/01/14 14:11	87-68-3	
n-Hexane	ND	mg/kg	0.0066	1		06/01/14 14:11	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/01/14 14:11	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/01/14 14:11	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Sample: SB-21 (8-10) **Lab ID: 5098216013** Collected: 05/21/14 09:35 Received: 05/22/14 17:57 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0066	1		06/01/14 14:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0066	1		06/01/14 14:11	99-87-6	
Methylene Chloride	ND	mg/kg	0.027	1		06/01/14 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.033	1		06/01/14 14:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0066	1		06/01/14 14:11	1634-04-4	
Naphthalene	ND	mg/kg	0.0066	1		06/01/14 14:11	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	103-65-1	
Styrene	ND	mg/kg	0.0066	1		06/01/14 14:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0066	1		06/01/14 14:11	127-18-4	
Toluene	ND	mg/kg	0.0066	1		06/01/14 14:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0066	1		06/01/14 14:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0066	1		06/01/14 14:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0066	1		06/01/14 14:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0066	1		06/01/14 14:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0066	1		06/01/14 14:11	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/01/14 14:11	108-05-4	
Vinyl chloride	ND	mg/kg	0.0066	1		06/01/14 14:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/01/14 14:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	118	%.	85-118	1		06/01/14 14:11	1868-53-7	
Toluene-d8 (S)	94	%.	71-128	1		06/01/14 14:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	56-144	1		06/01/14 14:11	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**32.7**	%	0.10	1		05/29/14 12:18		

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

QC Batch: MSV/65314
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098216002

METHOD BLANK: 1103629
Matrix: Solid
Associated Lab Samples: 5098216002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,3-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
2,2-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
2-Butanone (MEK)	mg/kg	ND	0.025	05/31/14 17:46	
2-Chlorotoluene	mg/kg	ND	0.0050	05/31/14 17:46	
2-Hexanone	mg/kg	ND	0.10	05/31/14 17:46	
4-Chlorotoluene	mg/kg	ND	0.0050	05/31/14 17:46	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	05/31/14 17:46	
Acetone	mg/kg	ND	0.10	05/31/14 17:46	
Acrolein	mg/kg	ND	0.10	05/31/14 17:46	
Acrylonitrile	mg/kg	ND	0.10	05/31/14 17:46	
Benzene	mg/kg	ND	0.0050	05/31/14 17:46	
Bromobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Bromochloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Bromodichloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Bromoform	mg/kg	ND	0.0050	05/31/14 17:46	
Bromomethane	mg/kg	ND	0.0050	05/31/14 17:46	
Carbon disulfide	mg/kg	ND	0.010	05/31/14 17:46	
Carbon tetrachloride	mg/kg	ND	0.0050	05/31/14 17:46	
Chlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Chloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
Chloroform	mg/kg	ND	0.0050	05/31/14 17:46	
Chloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	

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: Bloomington CTP 14-127
Pace Project No.: 5098216

METHOD BLANK: 1103629 Matrix: Solid
Associated Lab Samples: 5098216002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
Dibromochloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Dibromomethane	mg/kg	ND	0.0050	05/31/14 17:46	
Dichlorodifluoromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Ethyl methacrylate	mg/kg	ND	0.10	05/31/14 17:46	
Ethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	05/31/14 17:46	
Iodomethane	mg/kg	ND	0.10	05/31/14 17:46	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	05/31/14 17:46	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	05/31/14 17:46	
Methylene Chloride	mg/kg	ND	0.020	05/31/14 17:46	
n-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
n-Hexane	mg/kg	ND	0.0050	05/31/14 17:46	N2
n-Propylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Naphthalene	mg/kg	ND	0.0050	05/31/14 17:46	
p-Isopropyltoluene	mg/kg	ND	0.0050	05/31/14 17:46	
sec-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Styrene	mg/kg	ND	0.0050	05/31/14 17:46	
tert-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Tetrachloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
Toluene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	05/31/14 17:46	
Trichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
Trichlorofluoromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Vinyl acetate	mg/kg	ND	0.10	05/31/14 17:46	
Vinyl chloride	mg/kg	ND	0.0050	05/31/14 17:46	
Xylene (Total)	mg/kg	ND	0.010	05/31/14 17:46	
4-Bromofluorobenzene (S)	%.	96	56-144	05/31/14 17:46	
Dibromofluoromethane (S)	%.	103	85-118	05/31/14 17:46	
Toluene-d8 (S)	%.	95	71-128	05/31/14 17:46	

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.053	106	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.054	108	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.048	95	74-129	
1,1-Dichloroethane	mg/kg	.05	0.057	113	73-130	
1,1-Dichloroethene	mg/kg	.05	0.053	106	66-126	
1,1-Dichloropropene	mg/kg	.05	0.057	114	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.056	113	66-131	

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(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.047	93	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.048	96	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.059	119	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.047	94	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.055	109	73-122	
1,2-Dichloroethane	mg/kg	.05	0.050	101	73-127	
1,2-Dichloropropane	mg/kg	.05	0.050	100	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.059	117	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.057	114	73-121	
1,3-Dichloropropane	mg/kg	.05	0.054	107	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.054	108	75-119	
2,2-Dichloropropane	mg/kg	.05	0.053	105	63-122	
2-Butanone (MEK)	mg/kg	.25	0.23	92	59-139	
2-Chlorotoluene	mg/kg	.05	0.059	117	72-121	
2-Hexanone	mg/kg	.25	0.24	95	56-139	
4-Chlorotoluene	mg/kg	.05	0.055	111	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	93	63-136	
Acetone	mg/kg	.25	0.24	98	46-156	
Acrolein	mg/kg	1	0.86	86	47-200	
Acrylonitrile	mg/kg	1	0.98	98	67-130	
Benzene	mg/kg	.05	0.057	114	74-119	
Bromobenzene	mg/kg	.05	0.055	110	69-129	
Bromochloromethane	mg/kg	.05	0.051	103	67-129	
Bromodichloromethane	mg/kg	.05	0.051	102	68-121	
Bromoform	mg/kg	.05	0.046	92	49-124	
Bromomethane	mg/kg	.05	0.052	105	44-142	
Carbon disulfide	mg/kg	.1	0.11	108	61-129	
Carbon tetrachloride	mg/kg	.05	0.050	100	58-127	
Chlorobenzene	mg/kg	.05	0.053	106	77-122	
Chloroethane	mg/kg	.05	0.053	106	59-141	
Chloroform	mg/kg	.05	0.049	98	75-124	
Chloromethane	mg/kg	.05	0.040	80	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.054	108	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.047	93	68-115	
Dibromochloromethane	mg/kg	.05	0.049	98	60-121	
Dibromomethane	mg/kg	.05	0.052	105	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.060	120	26-186	
Ethyl methacrylate	mg/kg	.2	0.19	95	63-130	
Ethylbenzene	mg/kg	.05	0.058	117	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.054	109	55-139	
Iodomethane	mg/kg	.1	0.11	111	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.060	121	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.096	96	68-120	
Methylene Chloride	mg/kg	.05	0.060	119	57-142	
n-Butylbenzene	mg/kg	.05	0.052	104	68-125	
n-Hexane	mg/kg	.05	0.063	127	57-117	L3,N2
n-Propylbenzene	mg/kg	.05	0.051	102	68-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.044	88	67-131	
p-Isopropyltoluene	mg/kg	.05	0.050	101	66-133	
sec-Butylbenzene	mg/kg	.05	0.052	104	64-131	
Styrene	mg/kg	.05	0.059	118	70-126	
tert-Butylbenzene	mg/kg	.05	0.049	99	46-124	
Tetrachloroethene	mg/kg	.05	0.052	104	72-126	
Toluene	mg/kg	.05	0.055	110	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	103	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	89	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	97	61-124	
Trichloroethene	mg/kg	.05	0.055	110	74-123	
Trichlorofluoromethane	mg/kg	.05	0.046	93	72-146	
Vinyl acetate	mg/kg	.2	0.20	99	57-131	
Vinyl chloride	mg/kg	.05	0.049	97	55-128	
Xylene (Total)	mg/kg	.15	0.19	126	66-124	LS
4-Bromofluorobenzene (S)	%.			101	56-144	
Dibromofluoromethane (S)	%.			87	85-118	
Toluene-d8 (S)	%.			103	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

QC Batch: MSV/65316 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098216001, 5098216003, 5098216004, 5098216005, 5098216006, 5098216007, 5098216013

METHOD BLANK: 1103643 Matrix: Solid
Associated Lab Samples: 5098216001, 5098216003, 5098216004, 5098216005, 5098216006, 5098216007, 5098216013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
2-Butanone (MEK)	mg/kg	ND	0.025	06/01/14 06:57	
2-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 06:57	
2-Hexanone	mg/kg	ND	0.10	06/01/14 06:57	
4-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 06:57	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/01/14 06:57	
Acetone	mg/kg	ND	0.10	06/01/14 06:57	
Acrolein	mg/kg	ND	0.10	06/01/14 06:57	
Acrylonitrile	mg/kg	ND	0.10	06/01/14 06:57	
Benzene	mg/kg	ND	0.0050	06/01/14 06:57	
Bromobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Bromochloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Bromodichloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Bromoform	mg/kg	ND	0.0050	06/01/14 06:57	
Bromomethane	mg/kg	ND	0.0050	06/01/14 06:57	
Carbon disulfide	mg/kg	ND	0.010	06/01/14 06:57	
Carbon tetrachloride	mg/kg	ND	0.0050	06/01/14 06:57	
Chlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Chloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
Chloroform	mg/kg	ND	0.0050	06/01/14 06:57	
Chloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

METHOD BLANK: 1103643 Matrix: Solid
Associated Lab Samples: 5098216001, 5098216003, 5098216004, 5098216005, 5098216006, 5098216007, 5098216013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
Dibromochloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Dibromomethane	mg/kg	ND	0.0050	06/01/14 06:57	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Ethyl methacrylate	mg/kg	ND	0.10	06/01/14 06:57	
Ethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/01/14 06:57	
Iodomethane	mg/kg	ND	0.10	06/01/14 06:57	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/01/14 06:57	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/01/14 06:57	
Methylene Chloride	mg/kg	ND	0.020	06/01/14 06:57	
n-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
n-Hexane	mg/kg	ND	0.0050	06/01/14 06:57	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Naphthalene	mg/kg	ND	0.0050	06/01/14 06:57	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/01/14 06:57	
sec-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Styrene	mg/kg	ND	0.0050	06/01/14 06:57	
tert-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Tetrachloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
Toluene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/01/14 06:57	
Trichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Vinyl acetate	mg/kg	ND	0.10	06/01/14 06:57	
Vinyl chloride	mg/kg	ND	0.0050	06/01/14 06:57	
Xylene (Total)	mg/kg	ND	0.010	06/01/14 06:57	
4-Bromofluorobenzene (S)	%.	97	56-144	06/01/14 06:57	
Dibromofluoromethane (S)	%.	110	85-118	06/01/14 06:57	
Toluene-d8 (S)	%.	94	71-128	06/01/14 06:57	

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.047	93	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.050	100	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.044	89	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.043	86	74-129	
1,1-Dichloroethane	mg/kg	.05	0.053	106	73-130	
1,1-Dichloroethene	mg/kg	.05	0.051	101	66-126	
1,1-Dichloropropene	mg/kg	.05	0.054	108	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.041	82	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.039	78	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.034	68	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.048	96	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.041	82	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.045	89	73-122	
1,2-Dichloroethane	mg/kg	.05	0.046	93	73-127	
1,2-Dichloropropane	mg/kg	.05	0.045	90	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.048	96	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.045	90	73-121	
1,3-Dichloropropane	mg/kg	.05	0.047	93	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.042	83	75-119	
2,2-Dichloropropane	mg/kg	.05	0.049	98	63-122	
2-Butanone (MEK)	mg/kg	.25	0.20	82	59-139	
2-Chlorotoluene	mg/kg	.05	0.048	97	72-121	
2-Hexanone	mg/kg	.25	0.20	78	56-139	
4-Chlorotoluene	mg/kg	.05	0.045	90	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.19	78	63-136	
Acetone	mg/kg	.25	0.22	87	46-156	
Acrolein	mg/kg	1	0.74	74	47-200	
Acrylonitrile	mg/kg	1	0.86	86	67-130	
Benzene	mg/kg	.05	0.053	106	74-119	
Bromobenzene	mg/kg	.05	0.046	91	69-129	
Bromochloromethane	mg/kg	.05	0.047	95	67-129	
Bromodichloromethane	mg/kg	.05	0.047	95	68-121	
Bromoform	mg/kg	.05	0.040	80	49-124	
Bromomethane	mg/kg	.05	0.053	106	44-142	
Carbon disulfide	mg/kg	.1	0.11	105	61-129	
Carbon tetrachloride	mg/kg	.05	0.050	101	58-127	
Chlorobenzene	mg/kg	.05	0.045	91	77-122	
Chloroethane	mg/kg	.05	0.051	102	59-141	
Chloroform	mg/kg	.05	0.046	92	75-124	
Chloromethane	mg/kg	.05	0.035	71	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.050	100	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.039	77	68-115	
Dibromochloromethane	mg/kg	.05	0.045	90	60-121	
Dibromomethane	mg/kg	.05	0.046	91	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.058	117	26-186	
Ethyl methacrylate	mg/kg	.2	0.16	79	63-130	
Ethylbenzene	mg/kg	.05	0.050	101	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.042	84	55-139	
Iodomethane	mg/kg	.1	0.10	102	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.054	108	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.089	89	68-120	
Methylene Chloride	mg/kg	.05	0.051	102	57-142	
n-Butylbenzene	mg/kg	.05	0.041	83	68-125	
n-Hexane	mg/kg	.05	0.056	112	57-117	N2
n-Propylbenzene	mg/kg	.05	0.044	88	68-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.035	70	67-131	
p-Isopropyltoluene	mg/kg	.05	0.043	87	66-133	
sec-Butylbenzene	mg/kg	.05	0.045	91	64-131	
Styrene	mg/kg	.05	0.050	99	70-126	
tert-Butylbenzene	mg/kg	.05	0.044	88	46-124	
Tetrachloroethene	mg/kg	.05	0.048	96	72-126	
Toluene	mg/kg	.05	0.047	95	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.049	98	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.038	76	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.15	74	61-124	
Trichloroethene	mg/kg	.05	0.051	103	74-123	
Trichlorofluoromethane	mg/kg	.05	0.047	94	72-146	
Vinyl acetate	mg/kg	.2	0.17	84	57-131	
Vinyl chloride	mg/kg	.05	0.046	91	55-128	
Xylene (Total)	mg/kg	.15	0.16	106	66-124	
4-Bromofluorobenzene (S)	%.			100	56-144	
Dibromofluoromethane (S)	%.			94	85-118	
Toluene-d8 (S)	%.			103	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

QC Batch: MSV/65337 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098216008, 5098216009, 5098216010, 5098216011, 5098216012

METHOD BLANK: 1104135 Matrix: Solid
Associated Lab Samples: 5098216008, 5098216009, 5098216010, 5098216011, 5098216012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
2-Butanone (MEK)	mg/kg	ND	0.025	06/02/14 14:16	
2-Chlorotoluene	mg/kg	ND	0.0050	06/02/14 14:16	
2-Hexanone	mg/kg	ND	0.10	06/02/14 14:16	
4-Chlorotoluene	mg/kg	ND	0.0050	06/02/14 14:16	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/02/14 14:16	
Acetone	mg/kg	ND	0.10	06/02/14 14:16	
Acrolein	mg/kg	ND	0.10	06/02/14 14:16	
Acrylonitrile	mg/kg	ND	0.10	06/02/14 14:16	
Benzene	mg/kg	ND	0.0050	06/02/14 14:16	
Bromobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Bromochloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Bromodichloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Bromoform	mg/kg	ND	0.0050	06/02/14 14:16	
Bromomethane	mg/kg	ND	0.0050	06/02/14 14:16	
Carbon disulfide	mg/kg	ND	0.010	06/02/14 14:16	
Carbon tetrachloride	mg/kg	ND	0.0050	06/02/14 14:16	
Chlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Chloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
Chloroform	mg/kg	ND	0.0050	06/02/14 14:16	
Chloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

METHOD BLANK: 1104135 Matrix: Solid
Associated Lab Samples: 5098216008, 5098216009, 5098216010, 5098216011, 5098216012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
Dibromochloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Dibromomethane	mg/kg	ND	0.0050	06/02/14 14:16	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Ethyl methacrylate	mg/kg	ND	0.10	06/02/14 14:16	
Ethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/02/14 14:16	
Iodomethane	mg/kg	ND	0.10	06/02/14 14:16	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/02/14 14:16	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/02/14 14:16	
Methylene Chloride	mg/kg	ND	0.020	06/02/14 14:16	
n-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
n-Hexane	mg/kg	ND	0.0050	06/02/14 14:16	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Naphthalene	mg/kg	ND	0.0050	06/02/14 14:16	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/02/14 14:16	
sec-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Styrene	mg/kg	ND	0.0050	06/02/14 14:16	
tert-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Tetrachloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
Toluene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/02/14 14:16	
Trichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Vinyl acetate	mg/kg	ND	0.10	06/02/14 14:16	
Vinyl chloride	mg/kg	ND	0.0050	06/02/14 14:16	
Xylene (Total)	mg/kg	ND	0.010	06/02/14 14:16	
4-Bromofluorobenzene (S)	%.	93	56-144	06/02/14 14:16	
Dibromofluoromethane (S)	%.	105	85-118	06/02/14 14:16	
Toluene-d8 (S)	%.	95	71-128	06/02/14 14:16	

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.049	98	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.046	91	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.052	104	74-129	
1,1-Dichloroethane	mg/kg	.05	0.060	120	73-130	
1,1-Dichloroethene	mg/kg	.05	0.052	104	66-126	
1,1-Dichloropropene	mg/kg	.05	0.054	109	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.043	85	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.043	87	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.042	84	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	101	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.050	100	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.048	97	73-122	
1,2-Dichloroethane	mg/kg	.05	0.052	104	73-127	
1,2-Dichloropropane	mg/kg	.05	0.051	101	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.051	102	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.049	97	73-121	
1,3-Dichloropropane	mg/kg	.05	0.049	98	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.047	94	75-119	
2,2-Dichloropropane	mg/kg	.05	0.058	116	63-122	
2-Butanone (MEK)	mg/kg	.25	0.26	105	59-139	
2-Chlorotoluene	mg/kg	.05	0.050	99	72-121	
2-Hexanone	mg/kg	.25	0.23	91	56-139	
4-Chlorotoluene	mg/kg	.05	0.049	97	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	93	63-136	
Acetone	mg/kg	.25	0.23	92	46-156	
Acrolein	mg/kg	1	0.75	75	47-200	
Acrylonitrile	mg/kg	1	1.0	105	67-130	
Benzene	mg/kg	.05	0.058	116	74-119	
Bromobenzene	mg/kg	.05	0.048	97	69-129	
Bromochloromethane	mg/kg	.05	0.048	96	67-129	
Bromodichloromethane	mg/kg	.05	0.050	101	68-121	
Bromoform	mg/kg	.05	0.043	87	49-124	
Bromomethane	mg/kg	.05	0.052	105	44-142	
Carbon disulfide	mg/kg	.1	0.11	105	61-129	
Carbon tetrachloride	mg/kg	.05	0.052	104	58-127	
Chlorobenzene	mg/kg	.05	0.048	96	77-122	
Chloroethane	mg/kg	.05	0.044	88	59-141	
Chloroform	mg/kg	.05	0.050	99	75-124	
Chloromethane	mg/kg	.05	0.044	89	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.052	104	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.045	90	68-115	
Dibromochloromethane	mg/kg	.05	0.048	96	60-121	
Dibromomethane	mg/kg	.05	0.051	102	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.048	96	26-186	
Ethyl methacrylate	mg/kg	.2	0.18	89	63-130	
Ethylbenzene	mg/kg	.05	0.056	112	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.044	87	55-139	
Iodomethane	mg/kg	.1	.092J	92	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.058	115	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.11	106	68-120	
Methylene Chloride	mg/kg	.05	0.048	96	57-142	
n-Butylbenzene	mg/kg	.05	0.045	90	68-125	
n-Hexane	mg/kg	.05	0.055	110	57-117	N2
n-Propylbenzene	mg/kg	.05	0.055	110	68-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.037	75	67-131	
p-Isopropyltoluene	mg/kg	.05	0.050	99	66-133	
sec-Butylbenzene	mg/kg	.05	0.051	102	64-131	
Styrene	mg/kg	.05	0.054	107	70-126	
tert-Butylbenzene	mg/kg	.05	0.054	107	46-124	
Tetrachloroethene	mg/kg	.05	0.048	96	72-126	
Toluene	mg/kg	.05	0.047	95	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	105	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	89	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	93	61-124	
Trichloroethene	mg/kg	.05	0.051	102	74-123	
Trichlorofluoromethane	mg/kg	.05	0.046	91	72-146	
Vinyl acetate	mg/kg	.2	0.20	100	57-131	
Vinyl chloride	mg/kg	.05	0.044	88	55-128	
Xylene (Total)	mg/kg	.15	0.16	107	66-124	
4-Bromofluorobenzene (S)	%.			106	56-144	
Dibromofluoromethane (S)	%.			96	85-118	
Toluene-d8 (S)	%.			103	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

QC Batch: PMST/9518 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098216001, 5098216002, 5098216003, 5098216004, 5098216005, 5098216006, 5098216007, 5098216008, 5098216009, 5098216010, 5098216011, 5098216012, 5098216013

SAMPLE DUPLICATE: 1101727

Parameter	Units	5098294011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.0	14.6	10	5	R1

SAMPLE DUPLICATE: 1101728

Parameter	Units	5098297005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	15.2	11	5	R1

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.034 mg/kg, based on the MDL. BJG 06-02-14.
2d	MTBE ND at an estimated RL of 0.180 mg/kg, based on the MDL. BJG 06-02-14.
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098216001	**SB-20 (8-9.5)**	EPA 8260	MSV/65316		
5098216002	**SB-3 (6-7.5)**	EPA 8260	MSV/65314		
5098216003	**SB-18 (10-11.5)**	EPA 8260	MSV/65316		
5098216004	**SB-18 (4-6)**	EPA 8260	MSV/65316		
5098216005	**SB-7 (4-6)**	EPA 8260	MSV/65316		
5098216006	**SB-7 (10-11.5)**	EPA 8260	MSV/65316		
5098216007	**SB-11 (8-10)**	EPA 8260	MSV/65316		
5098216008	**SB-21 (2-4)**	EPA 8260	MSV/65337		
5098216009	**SB-23 (12-14)**	EPA 8260	MSV/65337		
5098216010	**SB-24 (10-11.5)**	EPA 8260	MSV/65337		
5098216011	**SB-4 (10-11)**	EPA 8260	MSV/65337		
5098216012	**SB-15 (14-15)**	EPA 8260	MSV/65337		
5098216013	**SB-21 (8-10)**	EPA 8260	MSV/65316		
5098216001	**SB-20 (8-9.5)**	ASTM D2974-87	PMST/9518		
5098216002	**SB-3 (6-7.5)**	ASTM D2974-87	PMST/9518		
5098216003	**SB-18 (10-11.5)**	ASTM D2974-87	PMST/9518		
5098216004	**SB-18 (4-6)**	ASTM D2974-87	PMST/9518		
5098216005	**SB-7 (4-6)**	ASTM D2974-87	PMST/9518		
5098216006	**SB-7 (10-11.5)**	ASTM D2974-87	PMST/9518		
5098216007	**SB-11 (8-10)**	ASTM D2974-87	PMST/9518		
5098216008	**SB-21 (2-4)**	ASTM D2974-87	PMST/9518		
5098216009	**SB-23 (12-14)**	ASTM D2974-87	PMST/9518		
5098216010	**SB-24 (10-11.5)**	ASTM D2974-87	PMST/9518		
5098216011	**SB-4 (10-11)**	ASTM D2974-87	PMST/9518		
5098216012	**SB-15 (14-15)**	ASTM D2974-87	PMST/9518		
5098216013	**SB-21 (8-10)**	ASTM D2974-87	PMST/9518		

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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 2

1685120

Section A Required Client Information:

Company: BCA
Address: 6330 E. 75th St. Indy
Email To: lhinrichs@bcaconsultants.com
Phone: 578-4233 Fax:
Requested Due Date/TAT: Stand.

Section B Required Project Information:

Report To: L. Hinrichs
Copy To: Same
Purchase Order No.: 14-127
Project Name: Bloomington CTP
Project Number: 14-127

Section C Invoice Information:

Attention:
Company Name:
Address: Same
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

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5098214
1	SB-20 (8-7.5)	SL	G			5/20/14	1540		4	1						1	2	X		001
2	SB-3 (6-7.5)					5/21/14	1410		4	1						1	2	X		002
3	SB-18 (10-11.5)					5/20/14	1355		4	1						1	2	X		003
4	SB-18 (4-6)					5/20/14	1350		4	1						1	2	X		004
5	SB-7 (4-6)					5/21/14	1025		4	1						1	2	X		005
6	SB-7 (10-11.5)					5/21/14	1030		4	1						1	2	X		006
7	SB-11 (8-10)					5/21/14	1440		4	1						1	2	X		007
8	SB-21 (2-4)					5/21/14	0930		4	1						1	2	X		008
9	SB-23 (12-14)					5/21/14	1130		4	1						1	2	X		009
10	SB-24 (10-11.5)					5/21/14	0850		4	1						1	2	X		010
11	SB-4 (10-11)					5/21/14	1330		4	1						1	2	X		011
12	SB-15 (14-15)					5/20/14	1510		4	1						1	2	X		012

* Note: All Samples Frozen @ 1630 on 5/21/14 by BCA

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* See Notes	[signature]	5/22/14	1700	Carlie Peacock	5-22-14	17:57	.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Len Hinrichs
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 5/22/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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.

F-ALL-Q-020rev.07, 15-May-2007

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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.

1601436

Section A Required Client Information:

Company: BCA
Address: 6330 E. 75th Indy
Email To: lhinrichs@bcaconsultants.com
Phone: 578-4233 Fax:
Requested Due Date/TAT: Stand.

Section B Required Project Information:

Report To: Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloomington CTP
Project Number: 14-127

Section C Invoice Information:

Attention:
Company Name:
Address: Same
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

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-21 (8-10)	SL	G			5/21/14	0935		4	1						1	2		X		5098214 013
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

* Note: All Samples frozen by BCA @ 1630 on 5/21/14

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* See notes.	[signature]	5/22/14	1700	Carlie Peacock	5-22-14	17:57	6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lon Hinrichs
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 5/22/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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

Pace Analytical

Client Name: BCA Project # 5098216

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer 5-22-14 18:05

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 1 2 3 4 6 (A) B C D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) .6 °C **Ice Visible in Sample Containers:** ☑ yes ☐ no Frozen terra

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CAP 5-22-14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	5. Tissue cores
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7. Samples Frozen
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☐Yes ☑No ☐N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Regina M. Bedell **Date:** 5/23/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 2

COC ID# 1685120

Project # 5098214

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R (Bulk Terra)	6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	_____	pH <2	pH>12	Comments
1					4																
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

Sample Container Count

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CLIENT: BCA

COC PAGE 2 of 2
COC ID# 1601436

Bulk Tedlar

Project # 5098216

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	_____	pH <2	pH>12	Comments
1					4															
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

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June 05, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Bloomington CTP 14-127
Pace Project No.:	5098084

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098084001	**SB-27 (8-10.5)**	Solid	05/20/14 08:40	05/20/14 17:08
5098084002	**SB-12 (6-7)**	Solid	05/20/14 12:00	05/20/14 17:08
5098084003	**SB-25 (8-10)**	Solid	05/19/14 11:35	05/20/14 17:08
5098084004	**SB-9 (12-13)**	Solid	05/19/14 14:30	05/20/14 17:08
5098084005	**SB-9 (12-13) DUP**	Solid	05/19/14 14:30	05/20/14 17:08
5098084006	**SB-9 (16-17)**	Solid	05/19/14 14:35	05/20/14 17:08
5098084007	**SB-2 (2-3.5)**	Solid	05/19/14 10:30	05/20/14 17:08
5098084008	**SB-19 (9-10)**	Solid	05/19/14 08:50	05/20/14 17:08
5098084009	**SB-1 (12-13.5)**	Solid	05/19/14 13:20	05/20/14 17:08
5098084010	**SB-25 (8-10)**	Solid	05/19/14 11:35	05/20/14 17:08
5098084011	**SB-17 (14-15)**	Solid	05/20/14 10:05	05/20/14 17:08
5098084012	**SB-13 (13-14)**	Solid	05/19/14 09:30	05/20/14 17:08
5098084013	**SB-12 (16-17.5)**	Solid	05/20/14 12:10	05/20/14 17:08
5098084014	**SB-27 (4-6)**	Solid	05/20/14 08:35	05/20/14 17:08

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5098084001	**SB-27 (8-10.5)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084002	**SB-12 (6-7)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084003	**SB-25 (8-10)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084004	**SB-9 (12-13)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084005	**SB-9 (12-13) DUP**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084006	**SB-9 (16-17)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084007	**SB-2 (2-3.5)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084008	**SB-19 (9-10)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084009	**SB-1 (12-13.5)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084011	**SB-17 (14-15)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084012	**SB-13 (13-14)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084013	**SB-12 (16-17.5)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
5098084014	**SB-27 (4-6)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-27 (8-10.5) **Lab ID: 5098084001** Collected: 05/20/14 08:40 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		06/02/14 15:36	67-64-1	
Acrolein	ND	mg/kg	0.11	1		06/02/14 15:36	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		06/02/14 15:36	107-13-1	
Benzene	ND	mg/kg	0.0054	1		06/02/14 15:36	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	75-27-4	
Bromoform	ND	mg/kg	0.0054	1		06/02/14 15:36	75-25-2	
Bromomethane	ND	mg/kg	0.0054	1		06/02/14 15:36	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		06/02/14 15:36	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		06/02/14 15:36	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0054	1		06/02/14 15:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	108-90-7	
Chloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	75-00-3	
Chloroform	ND	mg/kg	0.0054	1		06/02/14 15:36	67-66-3	
Chloromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	1		06/02/14 15:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	1		06/02/14 15:36	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0054	1		06/02/14 15:36	106-93-4	
Dibromomethane	ND	mg/kg	0.0054	1		06/02/14 15:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		06/02/14 15:36	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	1		06/02/14 15:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	1		06/02/14 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1		06/02/14 15:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	1		06/02/14 15:36	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	1		06/02/14 15:36	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	1		06/02/14 15:36	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	1		06/02/14 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	1		06/02/14 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	1		06/02/14 15:36	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		06/02/14 15:36	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0054	1		06/02/14 15:36	87-68-3	
n-Hexane	ND	mg/kg	0.0054	1		06/02/14 15:36	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		06/02/14 15:36	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		06/02/14 15:36	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-27 (8-10.5) **Lab ID: 5098084001** Collected: 05/20/14 08:40 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0054	1		06/02/14 15:36	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	1		06/02/14 15:36	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		06/02/14 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		06/02/14 15:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0054	1		06/02/14 15:36	1634-04-4	
Naphthalene	ND	mg/kg	0.0054	1		06/02/14 15:36	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	103-65-1	
Styrene	ND	mg/kg	0.0054	1		06/02/14 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	1		06/02/14 15:36	127-18-4	
Toluene	ND	mg/kg	0.0054	1		06/02/14 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	1		06/02/14 15:36	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	1		06/02/14 15:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	1		06/02/14 15:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0054	1		06/02/14 15:36	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	1		06/02/14 15:36	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		06/02/14 15:36	108-05-4	
Vinyl chloride	ND	mg/kg	0.0054	1		06/02/14 15:36	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		06/02/14 15:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	85-118	1		06/02/14 15:36	1868-53-7	
Toluene-d8 (S)	100	%.	71-128	1		06/02/14 15:36	2037-26-5	
4-Bromofluorobenzene (S)	86	%.	56-144	1		06/02/14 15:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.7**	%	0.10	1		05/28/14 15:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-12 (6-7) **Lab ID: 5098084002** Collected: 05/20/14 12:00 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.13	1		06/01/14 12:32	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/01/14 12:32	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/01/14 12:32	107-13-1	
Benzene	ND	mg/kg	0.0063	1		06/01/14 12:32	71-43-2	
Bromobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	108-86-1	
Bromochloromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	75-27-4	
Bromoform	ND	mg/kg	0.0063	1		06/01/14 12:32	75-25-2	
Bromomethane	ND	mg/kg	0.0063	1		06/01/14 12:32	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.032	1		06/01/14 12:32	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/01/14 12:32	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0063	1		06/01/14 12:32	56-23-5	
Chlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	108-90-7	
Chloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	75-00-3	
Chloroform	ND	mg/kg	0.0063	1		06/01/14 12:32	67-66-3	
Chloromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0063	1		06/01/14 12:32	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0063	1		06/01/14 12:32	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0063	1		06/01/14 12:32	106-93-4	
Dibromomethane	ND	mg/kg	0.0063	1		06/01/14 12:32	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/01/14 12:32	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 12:32	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 12:32	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0063	1		06/01/14 12:32	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 12:32	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 12:32	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0063	1		06/01/14 12:32	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 12:32	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 12:32	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0063	1		06/01/14 12:32	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/01/14 12:32	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0063	1		06/01/14 12:32	87-68-3	
n-Hexane	ND	mg/kg	0.0063	1		06/01/14 12:32	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/01/14 12:32	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/01/14 12:32	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-12 (6-7) **Lab ID: 5098084002** Collected: 05/20/14 12:00 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0063	1		06/01/14 12:32	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0063	1		06/01/14 12:32	99-87-6	
Methylene Chloride	ND	mg/kg	0.025	1		06/01/14 12:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.032	1		06/01/14 12:32	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0063	1		06/01/14 12:32	1634-04-4	
Naphthalene	ND	mg/kg	0.0063	1		06/01/14 12:32	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	103-65-1	
Styrene	ND	mg/kg	0.0063	1		06/01/14 12:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0063	1		06/01/14 12:32	127-18-4	
Toluene	ND	mg/kg	0.0063	1		06/01/14 12:32	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0063	1		06/01/14 12:32	79-00-5	
Trichloroethene	ND	mg/kg	0.0063	1		06/01/14 12:32	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0063	1		06/01/14 12:32	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0063	1		06/01/14 12:32	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0063	1		06/01/14 12:32	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/01/14 12:32	108-05-4	
Vinyl chloride	ND	mg/kg	0.0063	1		06/01/14 12:32	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/01/14 12:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		06/01/14 12:32	1868-53-7	
Toluene-d8 (S)	94	%.	71-128	1		06/01/14 12:32	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	56-144	1		06/01/14 12:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.6**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-25 (8-10) **Lab ID: 5098084003** Collected: 05/19/14 11:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**0.31**	mg/kg	0.10	1		06/01/14 06:37	67-64-1	
Acrolein	ND	mg/kg	0.10	1		06/01/14 06:37	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		06/01/14 06:37	107-13-1	
Benzene	ND	mg/kg	0.0051	1		06/01/14 06:37	71-43-2	
Bromobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	108-86-1	
Bromochloromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	75-27-4	
Bromoform	ND	mg/kg	0.0051	1		06/01/14 06:37	75-25-2	
Bromomethane	ND	mg/kg	0.0051	1		06/01/14 06:37	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		06/01/14 06:37	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		06/01/14 06:37	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0051	1		06/01/14 06:37	56-23-5	
Chlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	108-90-7	
Chloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	75-00-3	
Chloroform	ND	mg/kg	0.0051	1		06/01/14 06:37	67-66-3	
Chloromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0051	1		06/01/14 06:37	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0051	1		06/01/14 06:37	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0051	1		06/01/14 06:37	106-93-4	
Dibromomethane	ND	mg/kg	0.0051	1		06/01/14 06:37	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		06/01/14 06:37	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 06:37	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 06:37	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 06:37	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 06:37	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 06:37	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 06:37	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 06:37	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 06:37	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 06:37	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		06/01/14 06:37	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0051	1		06/01/14 06:37	87-68-3	
n-Hexane	ND	mg/kg	0.0051	1		06/01/14 06:37	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		06/01/14 06:37	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		06/01/14 06:37	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-25 (8-10) **Lab ID: 5098084003** Collected: 05/19/14 11:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0051	1		06/01/14 06:37	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0051	1		06/01/14 06:37	99-87-6	
Methylene Chloride	ND	mg/kg	0.021	1		06/01/14 06:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		06/01/14 06:37	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1		06/01/14 06:37	1634-04-4	
Naphthalene	ND	mg/kg	0.0051	1		06/01/14 06:37	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	103-65-1	
Styrene	ND	mg/kg	0.0051	1		06/01/14 06:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0051	1		06/01/14 06:37	127-18-4	
Toluene	ND	mg/kg	0.0051	1		06/01/14 06:37	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0051	1		06/01/14 06:37	79-00-5	
Trichloroethene	ND	mg/kg	0.0051	1		06/01/14 06:37	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0051	1		06/01/14 06:37	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0051	1		06/01/14 06:37	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1		06/01/14 06:37	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		06/01/14 06:37	108-05-4	
Vinyl chloride	ND	mg/kg	0.0051	1		06/01/14 06:37	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		06/01/14 06:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	85-118	1		06/01/14 06:37	1868-53-7	
Toluene-d8 (S)	101	%.	71-128	1		06/01/14 06:37	2037-26-5	
4-Bromofluorobenzene (S)	84	%.	56-144	1		06/01/14 06:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.9**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (12-13) **Lab ID: 5098084004** Collected: 05/19/14 14:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**1.3**	mg/kg	0.27	1		06/01/14 07:17	67-64-1	
Acrolein	ND	mg/kg	0.27	1		06/01/14 07:17	107-02-8	
Acrylonitrile	ND	mg/kg	0.27	1		06/01/14 07:17	107-13-1	
Benzene	ND	mg/kg	0.013	1		06/01/14 07:17	71-43-2	
Bromobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	108-86-1	
Bromochloromethane	ND	mg/kg	0.013	1		06/01/14 07:17	74-97-5	
Bromodichloromethane	ND	mg/kg	0.013	1		06/01/14 07:17	75-27-4	
Bromoform	ND	mg/kg	0.013	1		06/01/14 07:17	75-25-2	
Bromomethane	ND	mg/kg	0.013	1		06/01/14 07:17	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.066	1		06/01/14 07:17	78-93-3	
n-Butylbenzene	ND	mg/kg	0.013	1		06/01/14 07:17	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.013	1		06/01/14 07:17	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.013	1		06/01/14 07:17	98-06-6	
Carbon disulfide	ND	mg/kg	0.027	1		06/01/14 07:17	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.013	1		06/01/14 07:17	56-23-5	
Chlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	108-90-7	
Chloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	75-00-3	
Chloroform	ND	mg/kg	0.013	1		06/01/14 07:17	67-66-3	
Chloromethane	ND	mg/kg	0.013	1		06/01/14 07:17	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.013	1		06/01/14 07:17	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.013	1		06/01/14 07:17	106-43-4	
Dibromochloromethane	ND	mg/kg	0.013	1		06/01/14 07:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.013	1		06/01/14 07:17	106-93-4	
Dibromomethane	ND	mg/kg	0.013	1		06/01/14 07:17	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.27	1		06/01/14 07:17	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.013	1		06/01/14 07:17	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.013	1		06/01/14 07:17	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.013	1		06/01/14 07:17	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.013	1		06/01/14 07:17	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.013	1		06/01/14 07:17	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.013	1		06/01/14 07:17	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.013	1		06/01/14 07:17	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.013	1		06/01/14 07:17	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.013	1		06/01/14 07:17	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.013	1		06/01/14 07:17	10061-02-6	
Ethylbenzene	ND	mg/kg	0.013	1		06/01/14 07:17	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.27	1		06/01/14 07:17	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.013	1		06/01/14 07:17	87-68-3	
n-Hexane	ND	mg/kg	0.013	1		06/01/14 07:17	110-54-3	N2
2-Hexanone	ND	mg/kg	0.27	1		06/01/14 07:17	591-78-6	
Iodomethane	ND	mg/kg	0.27	1		06/01/14 07:17	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (12-13) **Lab ID: 5098084004** Collected: 05/19/14 14:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**0.21**	mg/kg	0.013	1		06/01/14 07:17	98-82-8	CC
p-Isopropyltoluene	**0.40J**	mg/kg	0.42	50		06/02/14 21:52	99-87-6	J
Methylene Chloride	ND	mg/kg	0.053	1		06/01/14 07:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.066	1		06/01/14 07:17	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.013	1		06/01/14 07:17	1634-04-4	
Naphthalene	**0.033**	mg/kg	0.013	1		06/01/14 07:17	91-20-3	CC
n-Propylbenzene	ND	mg/kg	0.013	1		06/01/14 07:17	103-65-1	
Styrene	ND	mg/kg	0.013	1		06/01/14 07:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	79-34-5	
Tetrachloroethene	ND	mg/kg	0.013	1		06/01/14 07:17	127-18-4	
Toluene	ND	mg/kg	0.013	1		06/01/14 07:17	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.013	1		06/01/14 07:17	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.013	1		06/01/14 07:17	79-00-5	
Trichloroethene	ND	mg/kg	0.013	1		06/01/14 07:17	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.013	1		06/01/14 07:17	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.013	1		06/01/14 07:17	96-18-4	
1,2,4-Trimethylbenzene	**0.10**	mg/kg	0.013	1		06/01/14 07:17	95-63-6	
1,3,5-Trimethylbenzene	**0.10**	mg/kg	0.013	1		06/01/14 07:17	108-67-8	
Vinyl acetate	ND	mg/kg	0.27	1		06/01/14 07:17	108-05-4	
Vinyl chloride	ND	mg/kg	0.013	1		06/01/14 07:17	75-01-4	
Xylene (Total)	ND	mg/kg	0.027	1		06/01/14 07:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	85-118	1		06/01/14 07:17	1868-53-7	
Toluene-d8 (S)	138	%.	71-128	1		06/01/14 07:17	2037-26-5	S5
4-Bromofluorobenzene (S)	118	%.	56-144	1		06/01/14 07:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.3**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (12-13) DUP **Lab ID: 5098084005** Collected: 05/19/14 14:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**0.34**	mg/kg	0.13	1		06/01/14 07:56	67-64-1	
Acrolein	ND	mg/kg	0.13	1		06/01/14 07:56	107-02-8	
Acrylonitrile	ND	mg/kg	0.13	1		06/01/14 07:56	107-13-1	
Benzene	ND	mg/kg	0.0065	1		06/01/14 07:56	71-43-2	
Bromobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	75-27-4	
Bromoform	ND	mg/kg	0.0065	1		06/01/14 07:56	75-25-2	
Bromomethane	ND	mg/kg	0.0065	1		06/01/14 07:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.033	1		06/01/14 07:56	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	104-51-8	
sec-Butylbenzene	**0.0080**	mg/kg	0.0065	1		06/01/14 07:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	98-06-6	
Carbon disulfide	ND	mg/kg	0.013	1		06/01/14 07:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0065	1		06/01/14 07:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	108-90-7	
Chloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	75-00-3	
Chloroform	ND	mg/kg	0.0065	1		06/01/14 07:56	67-66-3	
Chloromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0065	1		06/01/14 07:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0065	1		06/01/14 07:56	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0065	1		06/01/14 07:56	106-93-4	
Dibromomethane	ND	mg/kg	0.0065	1		06/01/14 07:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.13	1		06/01/14 07:56	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0065	1		06/01/14 07:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0065	1		06/01/14 07:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0065	1		06/01/14 07:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0065	1		06/01/14 07:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0065	1		06/01/14 07:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0065	1		06/01/14 07:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0065	1		06/01/14 07:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0065	1		06/01/14 07:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0065	1		06/01/14 07:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.13	1		06/01/14 07:56	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0065	1		06/01/14 07:56	87-68-3	
n-Hexane	ND	mg/kg	0.0065	1		06/01/14 07:56	110-54-3	N2
2-Hexanone	ND	mg/kg	0.13	1		06/01/14 07:56	591-78-6	
Iodomethane	ND	mg/kg	0.13	1		06/01/14 07:56	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (12-13) DUP **Lab ID: 5098084005** Collected: 05/19/14 14:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**0.019**	mg/kg	0.0065	1		06/01/14 07:56	98-82-8	CC
p-Isopropyltoluene	**0.36**	mg/kg	0.36	50		06/02/14 22:32	99-87-6	
Methylene Chloride	ND	mg/kg	0.026	1		06/01/14 07:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.033	1		06/01/14 07:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0065	1		06/01/14 07:56	1634-04-4	
Naphthalene	**0.016**	mg/kg	0.0065	1		06/01/14 07:56	91-20-3	CC
n-Propylbenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	103-65-1	
Styrene	ND	mg/kg	0.0065	1		06/01/14 07:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0065	1		06/01/14 07:56	127-18-4	
Toluene	ND	mg/kg	0.0065	1		06/01/14 07:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0065	1		06/01/14 07:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0065	1		06/01/14 07:56	79-00-5	
Trichloroethene	ND	mg/kg	0.0065	1		06/01/14 07:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0065	1		06/01/14 07:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0065	1		06/01/14 07:56	96-18-4	
1,2,4-Trimethylbenzene	**0.065**	mg/kg	0.0065	1		06/01/14 07:56	95-63-6	
1,3,5-Trimethylbenzene	**0.063**	mg/kg	0.0065	1		06/01/14 07:56	108-67-8	
Vinyl acetate	ND	mg/kg	0.13	1		06/01/14 07:56	108-05-4	
Vinyl chloride	ND	mg/kg	0.0065	1		06/01/14 07:56	75-01-4	
Xylene (Total)	ND	mg/kg	0.013	1		06/01/14 07:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	85-118	1		06/01/14 07:56	1868-53-7	
Toluene-d8 (S)	116	%.	71-128	1		06/01/14 07:56	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	56-144	1		06/01/14 07:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.2**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (16-17) **Lab ID: 5098084006** Collected: 05/19/14 14:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	2.9	25		05/31/14 20:23	67-64-1	
Acrolein	ND	mg/kg	2.9	25		05/31/14 20:23	107-02-8	
Acrylonitrile	ND	mg/kg	2.9	25		05/31/14 20:23	107-13-1	
Benzene	ND	mg/kg	0.14	25		05/31/14 20:23	71-43-2	1d
Bromobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	108-86-1	
Bromochloromethane	ND	mg/kg	0.14	25		05/31/14 20:23	74-97-5	
Bromodichloromethane	ND	mg/kg	0.14	25		05/31/14 20:23	75-27-4	
Bromoform	ND	mg/kg	0.14	25		05/31/14 20:23	75-25-2	
Bromomethane	ND	mg/kg	0.14	25		05/31/14 20:23	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.71	25		05/31/14 20:23	78-93-3	
n-Butylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	98-06-6	
Carbon disulfide	ND	mg/kg	0.29	25		05/31/14 20:23	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.14	25		05/31/14 20:23	56-23-5	
Chlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	108-90-7	
Chloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	75-00-3	
Chloroform	ND	mg/kg	0.14	25		05/31/14 20:23	67-66-3	
Chloromethane	ND	mg/kg	0.14	25		05/31/14 20:23	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.14	25		05/31/14 20:23	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.14	25		05/31/14 20:23	106-43-4	
Dibromochloromethane	ND	mg/kg	0.14	25		05/31/14 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.14	25		05/31/14 20:23	106-93-4	
Dibromomethane	ND	mg/kg	0.14	25		05/31/14 20:23	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	2.9	25		05/31/14 20:23	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.14	25		05/31/14 20:23	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.14	25		05/31/14 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.14	25		05/31/14 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.14	25		05/31/14 20:23	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.14	25		05/31/14 20:23	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.14	25		05/31/14 20:23	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.14	25		05/31/14 20:23	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.14	25		05/31/14 20:23	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.14	25		05/31/14 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.14	25		05/31/14 20:23	10061-02-6	
Ethylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	100-41-4	
Ethyl methacrylate	ND	mg/kg	2.9	25		05/31/14 20:23	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.14	25		05/31/14 20:23	87-68-3	
n-Hexane	ND	mg/kg	0.14	25		05/31/14 20:23	110-54-3	N2
2-Hexanone	ND	mg/kg	2.9	25		05/31/14 20:23	591-78-6	
Iodomethane	ND	mg/kg	2.9	25		05/31/14 20:23	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-9 (16-17) **Lab ID: 5098084006** Collected: 05/19/14 14:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.14	25		05/31/14 20:23	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.14	25		05/31/14 20:23	99-87-6	
Methylene Chloride	**1.2**	mg/kg	0.57	25		05/31/14 20:23	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.71	25		05/31/14 20:23	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.14	25		05/31/14 20:23	1634-04-4	2d
Naphthalene	ND	mg/kg	0.14	25		05/31/14 20:23	91-20-3	
n-Propylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	103-65-1	
Styrene	ND	mg/kg	0.14	25		05/31/14 20:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	79-34-5	
Tetrachloroethene	ND	mg/kg	0.14	25		05/31/14 20:23	127-18-4	
Toluene	ND	mg/kg	0.14	25		05/31/14 20:23	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.14	25		05/31/14 20:23	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.14	25		05/31/14 20:23	79-00-5	
Trichloroethene	ND	mg/kg	0.14	25		05/31/14 20:23	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.14	25		05/31/14 20:23	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.14	25		05/31/14 20:23	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.14	25		05/31/14 20:23	108-67-8	
Vinyl acetate	ND	mg/kg	2.9	25		05/31/14 20:23	108-05-4	
Vinyl chloride	ND	mg/kg	0.14	25		05/31/14 20:23	75-01-4	
Xylene (Total)	ND	mg/kg	0.29	25		05/31/14 20:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	85-118	25		05/31/14 20:23	1868-53-7	
Toluene-d8 (S)	95	%.	71-128	25		05/31/14 20:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	56-144	25		05/31/14 20:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.1**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-2 (2-3.5) **Lab ID: 5098084007** Collected: 05/19/14 10:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.093	1		06/01/14 08:36	67-64-1	
Acrolein	ND	mg/kg	0.093	1		06/01/14 08:36	107-02-8	
Acrylonitrile	ND	mg/kg	0.093	1		06/01/14 08:36	107-13-1	
Benzene	ND	mg/kg	0.0047	1		06/01/14 08:36	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		06/01/14 08:36	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		06/01/14 08:36	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		06/01/14 08:36	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	98-06-6	
Carbon disulfide	ND	mg/kg	0.0093	1		06/01/14 08:36	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		06/01/14 08:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		06/01/14 08:36	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		06/01/14 08:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		06/01/14 08:36	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		06/01/14 08:36	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		06/01/14 08:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.093	1		06/01/14 08:36	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 08:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 08:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 08:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 08:36	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 08:36	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 08:36	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 08:36	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 08:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 08:36	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.093	1		06/01/14 08:36	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		06/01/14 08:36	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		06/01/14 08:36	110-54-3	N2
2-Hexanone	ND	mg/kg	0.093	1		06/01/14 08:36	591-78-6	
Iodomethane	ND	mg/kg	0.093	1		06/01/14 08:36	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-2 (2-3.5) **Lab ID: 5098084007** Collected: 05/19/14 10:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		06/01/14 08:36	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		06/01/14 08:36	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		06/01/14 08:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		06/01/14 08:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		06/01/14 08:36	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		06/01/14 08:36	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	103-65-1	
Styrene	ND	mg/kg	0.0047	1		06/01/14 08:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		06/01/14 08:36	127-18-4	
Toluene	ND	mg/kg	0.0047	1		06/01/14 08:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		06/01/14 08:36	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		06/01/14 08:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		06/01/14 08:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		06/01/14 08:36	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		06/01/14 08:36	108-67-8	
Vinyl acetate	ND	mg/kg	0.093	1		06/01/14 08:36	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		06/01/14 08:36	75-01-4	
Xylene (Total)	ND	mg/kg	0.0093	1		06/01/14 08:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	85-118	1		06/01/14 08:36	1868-53-7	
Toluene-d8 (S)	98	%.	71-128	1		06/01/14 08:36	2037-26-5	
4-Bromofluorobenzene (S)	87	%.	56-144	1		06/01/14 08:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.9**	%	0.10	1		05/28/14 15:56		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-19 (9-10) **Lab ID: 5098084008** Collected: 05/19/14 08:50 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		06/01/14 10:34	67-64-1	
Acrolein	ND	mg/kg	0.10	1		06/01/14 10:34	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		06/01/14 10:34	107-13-1	
Benzene	ND	mg/kg	0.0051	1		06/01/14 10:34	71-43-2	
Bromobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	108-86-1	
Bromochloromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	75-27-4	
Bromoform	ND	mg/kg	0.0051	1		06/01/14 10:34	75-25-2	
Bromomethane	ND	mg/kg	0.0051	1		06/01/14 10:34	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.026	1		06/01/14 10:34	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		06/01/14 10:34	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0051	1		06/01/14 10:34	56-23-5	
Chlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	108-90-7	
Chloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	75-00-3	
Chloroform	ND	mg/kg	0.0051	1		06/01/14 10:34	67-66-3	
Chloromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0051	1		06/01/14 10:34	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0051	1		06/01/14 10:34	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0051	1		06/01/14 10:34	106-93-4	
Dibromomethane	ND	mg/kg	0.0051	1		06/01/14 10:34	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		06/01/14 10:34	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 10:34	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 10:34	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0051	1		06/01/14 10:34	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 10:34	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 10:34	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0051	1		06/01/14 10:34	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 10:34	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 10:34	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0051	1		06/01/14 10:34	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		06/01/14 10:34	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0051	1		06/01/14 10:34	87-68-3	
n-Hexane	ND	mg/kg	0.0051	1		06/01/14 10:34	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		06/01/14 10:34	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		06/01/14 10:34	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-19 (9-10) **Lab ID: 5098084008** Collected: 05/19/14 08:50 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0051	1		06/01/14 10:34	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0051	1		06/01/14 10:34	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		06/01/14 10:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.026	1		06/01/14 10:34	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1		06/01/14 10:34	1634-04-4	
Naphthalene	ND	mg/kg	0.0051	1		06/01/14 10:34	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	103-65-1	
Styrene	ND	mg/kg	0.0051	1		06/01/14 10:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0051	1		06/01/14 10:34	127-18-4	
Toluene	ND	mg/kg	0.0051	1		06/01/14 10:34	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0051	1		06/01/14 10:34	79-00-5	
Trichloroethene	ND	mg/kg	0.0051	1		06/01/14 10:34	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0051	1		06/01/14 10:34	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0051	1		06/01/14 10:34	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1		06/01/14 10:34	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		06/01/14 10:34	108-05-4	
Vinyl chloride	ND	mg/kg	0.0051	1		06/01/14 10:34	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		06/01/14 10:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	85-118	1		06/01/14 10:34	1868-53-7	
Toluene-d8 (S)	101	%.	71-128	1		06/01/14 10:34	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	56-144	1		06/01/14 10:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.4**	%	0.10	1		05/28/14 15:57		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-1 (12-13.5) **Lab ID: 5098084009** Collected: 05/19/14 13:20 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.094	1		06/01/14 11:14	67-64-1	
Acrolein	ND	mg/kg	0.094	1		06/01/14 11:14	107-02-8	
Acrylonitrile	ND	mg/kg	0.094	1		06/01/14 11:14	107-13-1	
Benzene	ND	mg/kg	0.0047	1		06/01/14 11:14	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		06/01/14 11:14	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		06/01/14 11:14	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.024	1		06/01/14 11:14	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	98-06-6	
Carbon disulfide	ND	mg/kg	0.0094	1		06/01/14 11:14	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		06/01/14 11:14	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		06/01/14 11:14	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		06/01/14 11:14	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		06/01/14 11:14	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		06/01/14 11:14	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		06/01/14 11:14	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.094	1		06/01/14 11:14	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 11:14	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 11:14	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		06/01/14 11:14	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 11:14	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 11:14	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		06/01/14 11:14	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 11:14	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 11:14	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		06/01/14 11:14	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.094	1		06/01/14 11:14	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		06/01/14 11:14	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		06/01/14 11:14	110-54-3	N2
2-Hexanone	ND	mg/kg	0.094	1		06/01/14 11:14	591-78-6	
Iodomethane	ND	mg/kg	0.094	1		06/01/14 11:14	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-1 (12-13.5) **Lab ID: 5098084009** Collected: 05/19/14 13:20 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		06/01/14 11:14	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		06/01/14 11:14	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		06/01/14 11:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.024	1		06/01/14 11:14	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		06/01/14 11:14	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		06/01/14 11:14	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	103-65-1	
Styrene	ND	mg/kg	0.0047	1		06/01/14 11:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0047	1		06/01/14 11:14	127-18-4	
Toluene	ND	mg/kg	0.0047	1		06/01/14 11:14	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		06/01/14 11:14	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		06/01/14 11:14	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		06/01/14 11:14	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		06/01/14 11:14	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		06/01/14 11:14	108-67-8	
Vinyl acetate	ND	mg/kg	0.094	1		06/01/14 11:14	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		06/01/14 11:14	75-01-4	
Xylene (Total)	ND	mg/kg	0.0094	1		06/01/14 11:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	85-118	1		06/01/14 11:14	1868-53-7	
Toluene-d8 (S)	92	%.	71-128	1		06/01/14 11:14	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	56-144	1		06/01/14 11:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.4**	%	0.10	1		05/28/14 15:57		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-17 (14-15) **Lab ID: 5098084011** Collected: 05/20/14 10:05 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		06/01/14 13:12	67-64-1	
Acrolein	ND	mg/kg	0.10	1		06/01/14 13:12	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		06/01/14 13:12	107-13-1	
Benzene	ND	mg/kg	0.0050	1		06/01/14 13:12	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		06/01/14 13:12	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		06/01/14 13:12	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		06/01/14 13:12	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		06/01/14 13:12	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		06/01/14 13:12	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		06/01/14 13:12	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		06/01/14 13:12	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		06/01/14 13:12	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		06/01/14 13:12	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		06/01/14 13:12	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		06/01/14 13:12	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:12	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:12	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:12	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:12	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:12	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/01/14 13:12	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		06/01/14 13:12	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		06/01/14 13:12	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		06/01/14 13:12	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		06/01/14 13:12	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		06/01/14 13:12	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-17 (14-15) **Lab ID: 5098084011** Collected: 05/20/14 10:05 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		06/01/14 13:12	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		06/01/14 13:12	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		06/01/14 13:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		06/01/14 13:12	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		06/01/14 13:12	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		06/01/14 13:12	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	103-65-1	
Styrene	ND	mg/kg	0.0050	1		06/01/14 13:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		06/01/14 13:12	127-18-4	
Toluene	ND	mg/kg	0.0050	1		06/01/14 13:12	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		06/01/14 13:12	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		06/01/14 13:12	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		06/01/14 13:12	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		06/01/14 13:12	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		06/01/14 13:12	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		06/01/14 13:12	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		06/01/14 13:12	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		06/01/14 13:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	85-118	1		06/01/14 13:12	1868-53-7	
Toluene-d8 (S)	93	%.	71-128	1		06/01/14 13:12	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	56-144	1		06/01/14 13:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.5**	%	0.10	1		05/28/14 15:57		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-13 (13-14) **Lab ID: 5098084012** Collected: 05/19/14 09:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		06/01/14 11:53	67-64-1	
Acrolein	ND	mg/kg	0.11	1		06/01/14 11:53	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		06/01/14 11:53	107-13-1	
Benzene	ND	mg/kg	0.0053	1		06/01/14 11:53	71-43-2	
Bromobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	108-86-1	
Bromochloromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	75-27-4	
Bromoform	ND	mg/kg	0.0053	1		06/01/14 11:53	75-25-2	
Bromomethane	ND	mg/kg	0.0053	1		06/01/14 11:53	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		06/01/14 11:53	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		06/01/14 11:53	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0053	1		06/01/14 11:53	56-23-5	
Chlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	108-90-7	
Chloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	75-00-3	
Chloroform	ND	mg/kg	0.0053	1		06/01/14 11:53	67-66-3	
Chloromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0053	1		06/01/14 11:53	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0053	1		06/01/14 11:53	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0053	1		06/01/14 11:53	106-93-4	
Dibromomethane	ND	mg/kg	0.0053	1		06/01/14 11:53	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		06/01/14 11:53	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 11:53	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 11:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0053	1		06/01/14 11:53	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 11:53	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 11:53	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0053	1		06/01/14 11:53	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 11:53	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 11:53	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0053	1		06/01/14 11:53	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		06/01/14 11:53	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0053	1		06/01/14 11:53	87-68-3	
n-Hexane	ND	mg/kg	0.0053	1		06/01/14 11:53	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		06/01/14 11:53	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		06/01/14 11:53	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-13 (13-14) **Lab ID: 5098084012** Collected: 05/19/14 09:30 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0053	1		06/01/14 11:53	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0053	1		06/01/14 11:53	99-87-6	
Methylene Chloride	ND	mg/kg	0.023	1		06/02/14 14:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		06/01/14 11:53	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0053	1		06/01/14 11:53	1634-04-4	
Naphthalene	ND	mg/kg	0.0053	1		06/01/14 11:53	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	103-65-1	
Styrene	ND	mg/kg	0.0053	1		06/01/14 11:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0053	1		06/01/14 11:53	127-18-4	
Toluene	ND	mg/kg	0.0053	1		06/01/14 11:53	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0053	1		06/01/14 11:53	79-00-5	
Trichloroethene	ND	mg/kg	0.0053	1		06/01/14 11:53	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0053	1		06/01/14 11:53	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0053	1		06/01/14 11:53	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	1		06/01/14 11:53	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		06/01/14 11:53	108-05-4	
Vinyl chloride	ND	mg/kg	0.0053	1		06/01/14 11:53	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		06/01/14 11:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	85-118	1		06/01/14 11:53	1868-53-7	
Toluene-d8 (S)	99	%.	71-128	1		06/01/14 11:53	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	56-144	1		06/01/14 11:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.8**	%	0.10	1		05/28/14 16:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-12 (16-17.5) **Lab ID: 5098084013** Collected: 05/20/14 12:10 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		06/01/14 13:51	67-64-1	
Acrolein	ND	mg/kg	0.11	1		06/01/14 13:51	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		06/01/14 13:51	107-13-1	
Benzene	ND	mg/kg	0.0056	1		06/01/14 13:51	71-43-2	
Bromobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	108-86-1	
Bromochloromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	75-27-4	
Bromoform	ND	mg/kg	0.0056	1		06/01/14 13:51	75-25-2	
Bromomethane	ND	mg/kg	0.0056	1		06/01/14 13:51	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.028	1		06/01/14 13:51	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		06/01/14 13:51	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0056	1		06/01/14 13:51	56-23-5	
Chlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	108-90-7	
Chloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	75-00-3	
Chloroform	ND	mg/kg	0.0056	1		06/01/14 13:51	67-66-3	
Chloromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0056	1		06/01/14 13:51	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0056	1		06/01/14 13:51	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0056	1		06/01/14 13:51	106-93-4	
Dibromomethane	ND	mg/kg	0.0056	1		06/01/14 13:51	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		06/01/14 13:51	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0056	1		06/01/14 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0056	1		06/01/14 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0056	1		06/01/14 13:51	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0056	1		06/01/14 13:51	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0056	1		06/01/14 13:51	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0056	1		06/01/14 13:51	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0056	1		06/01/14 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0056	1		06/01/14 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0056	1		06/01/14 13:51	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		06/01/14 13:51	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0056	1		06/01/14 13:51	87-68-3	
n-Hexane	ND	mg/kg	0.0056	1		06/01/14 13:51	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		06/01/14 13:51	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		06/01/14 13:51	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-12 (16-17.5) **Lab ID: 5098084013** Collected: 05/20/14 12:10 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0056	1		06/01/14 13:51	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0056	1		06/01/14 13:51	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		06/01/14 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.028	1		06/01/14 13:51	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0056	1		06/01/14 13:51	1634-04-4	
Naphthalene	ND	mg/kg	0.0056	1		06/01/14 13:51	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	103-65-1	
Styrene	ND	mg/kg	0.0056	1		06/01/14 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0056	1		06/01/14 13:51	127-18-4	
Toluene	ND	mg/kg	0.0056	1		06/01/14 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0056	1		06/01/14 13:51	79-00-5	
Trichloroethene	ND	mg/kg	0.0056	1		06/01/14 13:51	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0056	1		06/01/14 13:51	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0056	1		06/01/14 13:51	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0056	1		06/01/14 13:51	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		06/01/14 13:51	108-05-4	
Vinyl chloride	ND	mg/kg	0.0056	1		06/01/14 13:51	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		06/01/14 13:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		06/01/14 13:51	1868-53-7	
Toluene-d8 (S)	97	%.	71-128	1		06/01/14 13:51	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	56-144	1		06/01/14 13:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.4**	%	0.10	1		05/28/14 16:18		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-27 (4-6) **Lab ID: 5098084014** Collected: 05/20/14 08:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.098	1		06/01/14 08:16	67-64-1	
Acrolein	ND	mg/kg	0.098	1		06/01/14 08:16	107-02-8	
Acrylonitrile	ND	mg/kg	0.098	1		06/01/14 08:16	107-13-1	
Benzene	ND	mg/kg	0.0049	1		06/01/14 08:16	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	75-27-4	
Bromoform	ND	mg/kg	0.0049	1		06/01/14 08:16	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1		06/01/14 08:16	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		06/01/14 08:16	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	98-06-6	
Carbon disulfide	ND	mg/kg	0.0098	1		06/01/14 08:16	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1		06/01/14 08:16	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	75-00-3	
Chloroform	ND	mg/kg	0.0049	1		06/01/14 08:16	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1		06/01/14 08:16	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1		06/01/14 08:16	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1		06/01/14 08:16	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1		06/01/14 08:16	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.098	1		06/01/14 08:16	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0049	1		06/01/14 08:16	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1		06/01/14 08:16	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1		06/01/14 08:16	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1		06/01/14 08:16	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1		06/01/14 08:16	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1		06/01/14 08:16	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1		06/01/14 08:16	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1		06/01/14 08:16	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1		06/01/14 08:16	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.098	1		06/01/14 08:16	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1		06/01/14 08:16	87-68-3	
n-Hexane	ND	mg/kg	0.0049	1		06/01/14 08:16	110-54-3	N2
2-Hexanone	ND	mg/kg	0.098	1		06/01/14 08:16	591-78-6	
Iodomethane	ND	mg/kg	0.098	1		06/01/14 08:16	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Sample: SB-27 (4-6) **Lab ID: 5098084014** Collected: 05/20/14 08:35 Received: 05/20/14 17:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1		06/01/14 08:16	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1		06/01/14 08:16	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		06/01/14 08:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		06/01/14 08:16	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1		06/01/14 08:16	1634-04-4	
Naphthalene	ND	mg/kg	0.0049	1		06/01/14 08:16	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	103-65-1	
Styrene	ND	mg/kg	0.0049	1		06/01/14 08:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1		06/01/14 08:16	127-18-4	
Toluene	ND	mg/kg	0.0049	1		06/01/14 08:16	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1		06/01/14 08:16	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1		06/01/14 08:16	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1		06/01/14 08:16	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1		06/01/14 08:16	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1		06/01/14 08:16	108-67-8	
Vinyl acetate	ND	mg/kg	0.098	1		06/01/14 08:16	108-05-4	
Vinyl chloride	ND	mg/kg	0.0049	1		06/01/14 08:16	75-01-4	
Xylene (Total)	ND	mg/kg	0.0098	1		06/01/14 08:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	85-118	1		06/01/14 08:16	1868-53-7	
Toluene-d8 (S)	97	%.	71-128	1		06/01/14 08:16	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	56-144	1		06/01/14 08:16	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.2**	%	0.10	1		05/28/14 16:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: MSV/65314
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098084006

METHOD BLANK: 1103629
Matrix: Solid
Associated Lab Samples: 5098084006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
1,1-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
1,2-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
1,3-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
2,2-Dichloropropane	mg/kg	ND	0.0050	05/31/14 17:46	
2-Butanone (MEK)	mg/kg	ND	0.025	05/31/14 17:46	
2-Chlorotoluene	mg/kg	ND	0.0050	05/31/14 17:46	
2-Hexanone	mg/kg	ND	0.10	05/31/14 17:46	
4-Chlorotoluene	mg/kg	ND	0.0050	05/31/14 17:46	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	05/31/14 17:46	
Acetone	mg/kg	ND	0.10	05/31/14 17:46	
Acrolein	mg/kg	ND	0.10	05/31/14 17:46	
Acrylonitrile	mg/kg	ND	0.10	05/31/14 17:46	
Benzene	mg/kg	ND	0.0050	05/31/14 17:46	
Bromobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Bromochloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Bromodichloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Bromoform	mg/kg	ND	0.0050	05/31/14 17:46	
Bromomethane	mg/kg	ND	0.0050	05/31/14 17:46	
Carbon disulfide	mg/kg	ND	0.010	05/31/14 17:46	
Carbon tetrachloride	mg/kg	ND	0.0050	05/31/14 17:46	
Chlorobenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Chloroethane	mg/kg	ND	0.0050	05/31/14 17:46	
Chloroform	mg/kg	ND	0.0050	05/31/14 17:46	
Chloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

METHOD BLANK: 1103629 Matrix: Solid
Associated Lab Samples: 5098084006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
Dibromochloromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Dibromomethane	mg/kg	ND	0.0050	05/31/14 17:46	
Dichlorodifluoromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Ethyl methacrylate	mg/kg	ND	0.10	05/31/14 17:46	
Ethylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	05/31/14 17:46	
Iodomethane	mg/kg	ND	0.10	05/31/14 17:46	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	05/31/14 17:46	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	05/31/14 17:46	
Methylene Chloride	mg/kg	ND	0.020	05/31/14 17:46	
n-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
n-Hexane	mg/kg	ND	0.0050	05/31/14 17:46	N2
n-Propylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Naphthalene	mg/kg	ND	0.0050	05/31/14 17:46	
p-Isopropyltoluene	mg/kg	ND	0.0050	05/31/14 17:46	
sec-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Styrene	mg/kg	ND	0.0050	05/31/14 17:46	
tert-Butylbenzene	mg/kg	ND	0.0050	05/31/14 17:46	
Tetrachloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
Toluene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	05/31/14 17:46	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	05/31/14 17:46	
Trichloroethene	mg/kg	ND	0.0050	05/31/14 17:46	
Trichlorofluoromethane	mg/kg	ND	0.0050	05/31/14 17:46	
Vinyl acetate	mg/kg	ND	0.10	05/31/14 17:46	
Vinyl chloride	mg/kg	ND	0.0050	05/31/14 17:46	
Xylene (Total)	mg/kg	ND	0.010	05/31/14 17:46	
4-Bromofluorobenzene (S)	%.	96	56-144	05/31/14 17:46	
Dibromofluoromethane (S)	%.	103	85-118	05/31/14 17:46	
Toluene-d8 (S)	%.	95	71-128	05/31/14 17:46	

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.053	106	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.054	108	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.048	95	74-129	
1,1-Dichloroethane	mg/kg	.05	0.057	113	73-130	
1,1-Dichloroethene	mg/kg	.05	0.053	106	66-126	
1,1-Dichloropropene	mg/kg	.05	0.057	114	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.056	113	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.047	93	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.048	96	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.059	119	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.047	94	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.055	109	73-122	
1,2-Dichloroethane	mg/kg	.05	0.050	101	73-127	
1,2-Dichloropropane	mg/kg	.05	0.050	100	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.059	117	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.057	114	73-121	
1,3-Dichloropropane	mg/kg	.05	0.054	107	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.054	108	75-119	
2,2-Dichloropropane	mg/kg	.05	0.053	105	63-122	
2-Butanone (MEK)	mg/kg	.25	0.23	92	59-139	
2-Chlorotoluene	mg/kg	.05	0.059	117	72-121	
2-Hexanone	mg/kg	.25	0.24	95	56-139	
4-Chlorotoluene	mg/kg	.05	0.055	111	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	93	63-136	
Acetone	mg/kg	.25	0.24	98	46-156	
Acrolein	mg/kg	1	0.86	86	47-200	
Acrylonitrile	mg/kg	1	0.98	98	67-130	
Benzene	mg/kg	.05	0.057	114	74-119	
Bromobenzene	mg/kg	.05	0.055	110	69-129	
Bromochloromethane	mg/kg	.05	0.051	103	67-129	
Bromodichloromethane	mg/kg	.05	0.051	102	68-121	
Bromoform	mg/kg	.05	0.046	92	49-124	
Bromomethane	mg/kg	.05	0.052	105	44-142	
Carbon disulfide	mg/kg	.1	0.11	108	61-129	
Carbon tetrachloride	mg/kg	.05	0.050	100	58-127	
Chlorobenzene	mg/kg	.05	0.053	106	77-122	
Chloroethane	mg/kg	.05	0.053	106	59-141	
Chloroform	mg/kg	.05	0.049	98	75-124	
Chloromethane	mg/kg	.05	0.040	80	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.054	108	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.047	93	68-115	
Dibromochloromethane	mg/kg	.05	0.049	98	60-121	
Dibromomethane	mg/kg	.05	0.052	105	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.060	120	26-186	
Ethyl methacrylate	mg/kg	.2	0.19	95	63-130	
Ethylbenzene	mg/kg	.05	0.058	117	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.054	109	55-139	
Iodomethane	mg/kg	.1	0.11	111	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.060	121	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.096	96	68-120	
Methylene Chloride	mg/kg	.05	0.060	119	57-142	
n-Butylbenzene	mg/kg	.05	0.052	104	68-125	
n-Hexane	mg/kg	.05	0.063	127	57-117	L3,N2
n-Propylbenzene	mg/kg	.05	0.051	102	68-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.044	88	67-131	
p-Isopropyltoluene	mg/kg	.05	0.050	101	66-133	
sec-Butylbenzene	mg/kg	.05	0.052	104	64-131	
Styrene	mg/kg	.05	0.059	118	70-126	
tert-Butylbenzene	mg/kg	.05	0.049	99	46-124	
Tetrachloroethene	mg/kg	.05	0.052	104	72-126	
Toluene	mg/kg	.05	0.055	110	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	103	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	89	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	97	61-124	
Trichloroethene	mg/kg	.05	0.055	110	74-123	
Trichlorofluoromethane	mg/kg	.05	0.046	93	72-146	
Vinyl acetate	mg/kg	.2	0.20	99	57-131	
Vinyl chloride	mg/kg	.05	0.049	97	55-128	
Xylene (Total)	mg/kg	.15	0.19	126	66-124	LS
4-Bromofluorobenzene (S)	%.			101	56-144	
Dibromofluoromethane (S)	%.			87	85-118	
Toluene-d8 (S)	%.			103	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: MSV/65315 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098084002, 5098084003, 5098084004, 5098084005, 5098084007, 5098084008, 5098084009, 5098084011, 5098084012, 5098084013

METHOD BLANK: 1103639 Matrix: Solid
Associated Lab Samples: 5098084002, 5098084003, 5098084004, 5098084005, 5098084007, 5098084008, 5098084009, 5098084011, 5098084012, 5098084013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/01/14 05:57	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/01/14 05:57	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/01/14 05:57	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/01/14 05:57	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 05:57	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/01/14 05:57	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 05:57	
2-Butanone (MEK)	mg/kg	ND	0.025	06/01/14 05:57	
2-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 05:57	
2-Hexanone	mg/kg	ND	0.10	06/01/14 05:57	
4-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 05:57	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/01/14 05:57	
Acetone	mg/kg	ND	0.10	06/01/14 05:57	
Acrolein	mg/kg	ND	0.10	06/01/14 05:57	
Acrylonitrile	mg/kg	ND	0.10	06/01/14 05:57	
Benzene	mg/kg	ND	0.0050	06/01/14 05:57	
Bromobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Bromochloromethane	mg/kg	ND	0.0050	06/01/14 05:57	
Bromodichloromethane	mg/kg	ND	0.0050	06/01/14 05:57	
Bromoform	mg/kg	ND	0.0050	06/01/14 05:57	
Bromomethane	mg/kg	ND	0.0050	06/01/14 05:57	
Carbon disulfide	mg/kg	ND	0.010	06/01/14 05:57	
Carbon tetrachloride	mg/kg	ND	0.0050	06/01/14 05:57	
Chlorobenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Chloroethane	mg/kg	ND	0.0050	06/01/14 05:57	
Chloroform	mg/kg	ND	0.0050	06/01/14 05:57	
Chloromethane	mg/kg	ND	0.0050	06/01/14 05:57	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

METHOD BLANK: 1103639 Matrix: Solid

Associated Lab Samples: 5098084002, 5098084003, 5098084004, 5098084005, 5098084007, 5098084008, 5098084009, 5098084011, 5098084012, 5098084013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 05:57	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 05:57	
Dibromochloromethane	mg/kg	ND	0.0050	06/01/14 05:57	
Dibromomethane	mg/kg	ND	0.0050	06/01/14 05:57	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/01/14 05:57	
Ethyl methacrylate	mg/kg	ND	0.10	06/01/14 05:57	
Ethylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/01/14 05:57	
Iodomethane	mg/kg	ND	0.10	06/01/14 05:57	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/01/14 05:57	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/01/14 05:57	
Methylene Chloride	mg/kg	ND	0.020	06/01/14 05:57	
n-Butylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
n-Hexane	mg/kg	ND	0.0050	06/01/14 05:57	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Naphthalene	mg/kg	ND	0.0050	06/01/14 05:57	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/01/14 05:57	
sec-Butylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Styrene	mg/kg	ND	0.0050	06/01/14 05:57	
tert-Butylbenzene	mg/kg	ND	0.0050	06/01/14 05:57	
Tetrachloroethene	mg/kg	ND	0.0050	06/01/14 05:57	
Toluene	mg/kg	ND	0.0050	06/01/14 05:57	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 05:57	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 05:57	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/01/14 05:57	
Trichloroethene	mg/kg	ND	0.0050	06/01/14 05:57	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/01/14 05:57	
Vinyl acetate	mg/kg	ND	0.10	06/01/14 05:57	
Vinyl chloride	mg/kg	ND	0.0050	06/01/14 05:57	
Xylene (Total)	mg/kg	ND	0.010	06/01/14 05:57	
4-Bromofluorobenzene (S)	%.	95	56-144	06/01/14 05:57	
Dibromofluoromethane (S)	%.	103	85-118	06/01/14 05:57	
Toluene-d8 (S)	%.	97	71-128	06/01/14 05:57	

LABORATORY CONTROL SAMPLE: 1103640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.054	109	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.056	111	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	99	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.055	110	74-129	
1,1-Dichloroethane	mg/kg	.05	0.056	113	73-130	
1,1-Dichloroethene	mg/kg	.05	0.057	115	66-126	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	mg/kg	.05	0.058	116	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.041	82	66-131	
1,2,3-Trichloropropane	mg/kg	.05	0.045	90	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.037	74	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.053	107	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.054	107	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.051	101	73-122	
1,2-Dichloroethane	mg/kg	.05	0.054	107	73-127	
1,2-Dichloropropane	mg/kg	.05	0.055	110	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.052	105	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.050	99	73-121	
1,3-Dichloropropane	mg/kg	.05	0.053	107	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.046	92	75-119	
2,2-Dichloropropane	mg/kg	.05	0.055	111	63-122	
2-Butanone (MEK)	mg/kg	.25	0.27	106	59-139	
2-Chlorotoluene	mg/kg	.05	0.052	104	72-121	
2-Hexanone	mg/kg	.25	0.23	94	56-139	
4-Chlorotoluene	mg/kg	.05	0.051	101	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	91	63-136	
Acetone	mg/kg	.25	0.24	96	46-156	
Acrolein	mg/kg	1	0.75	75	47-200	
Acrylonitrile	mg/kg	1	1.0	102	67-130	
Benzene	mg/kg	.05	0.062	124	74-119	L3
Bromobenzene	mg/kg	.05	0.052	104	69-129	
Bromochloromethane	mg/kg	.05	0.052	105	67-129	
Bromodichloromethane	mg/kg	.05	0.054	108	68-121	
Bromoform	mg/kg	.05	0.047	95	49-124	
Bromomethane	mg/kg	.05	0.056	111	44-142	
Carbon disulfide	mg/kg	.1	0.11	114	61-129	
Carbon tetrachloride	mg/kg	.05	0.057	115	58-127	
Chlorobenzene	mg/kg	.05	0.053	105	77-122	
Chloroethane	mg/kg	.05	0.049	97	59-141	
Chloroform	mg/kg	.05	0.053	106	75-124	
Chloromethane	mg/kg	.05	0.048	96	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.056	112	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.046	92	68-115	
Dibromochloromethane	mg/kg	.05	0.052	105	60-121	
Dibromomethane	mg/kg	.05	0.053	106	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.053	106	26-186	
Ethyl methacrylate	mg/kg	.2	0.18	92	63-130	
Ethylbenzene	mg/kg	.05	0.060	119	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.045	91	55-139	
Iodomethane	mg/kg	.1	0.11	108	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.061	122	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.11	106	68-120	
Methylene Chloride	mg/kg	.05	0.054	108	57-142	
n-Butylbenzene	mg/kg	.05	0.045	90	68-125	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Hexane	mg/kg	.05	0.051	101	57-117	N2
n-Propylbenzene	mg/kg	.05	0.057	114	68-122	
Naphthalene	mg/kg	.05	0.039	78	67-131	
p-Isopropyltoluene	mg/kg	.05	0.053	105	66-133	
sec-Butylbenzene	mg/kg	.05	0.056	111	64-131	
Styrene	mg/kg	.05	0.057	113	70-126	
tert-Butylbenzene	mg/kg	.05	0.059	118	46-124	
Tetrachloroethene	mg/kg	.05	0.050	101	72-126	
Toluene	mg/kg	.05	0.051	102	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.054	107	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	91	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.17	86	61-124	
Trichloroethene	mg/kg	.05	0.054	109	74-123	
Trichlorofluoromethane	mg/kg	.05	0.050	101	72-146	
Vinyl acetate	mg/kg	.2	0.18	88	57-131	
Vinyl chloride	mg/kg	.05	0.049	98	55-128	
Xylene (Total)	mg/kg	.15	0.17	113	66-124	
4-Bromofluorobenzene (S)	%.			103	56-144	
Dibromofluoromethane (S)	%.			97	85-118	
Toluene-d8 (S)	%.			103	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103641 1103642

Parameter	Units	5098084007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.049	.042	0.032	0.033	66	80	10-129	3	20	
1,1,1-Trichloroethane	mg/kg	ND	.049	.042	0.058	0.047	119	114	26-143	20	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.049	.042	0.043	0.046	88	110	10-156	7	20	
1,1,2-Trichloroethane	mg/kg	ND	.049	.042	0.048	0.052	99	126	13-156	8	20	
1,1-Dichloroethane	mg/kg	ND	.049	.042	0.073	0.058	150	139	36-150	23	20	
1,1-Dichloroethene	mg/kg	ND	.049	.042	0.068	0.059	141	142	31-146	15	20	
1,1-Dichloropropene	mg/kg	ND	.049	.042	0.040	0.034	81	83	26-145	14	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.049	.042	0.011	0.016	22	37	10-119	38	20	
1,2,3-Trichloropropane	mg/kg	ND	.049	.042	0.041	0.044	84	106	10-168	8	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.049	.042	0.012	0.015	25	35	10-122	20	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.049	.042	0.011	0.011	23	26	10-139	4	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.049	.042	0.034	0.046	70	112	15-136	30	20	
1,2-Dichlorobenzene	mg/kg	ND	.049	.042	0.012	0.017	25	41	10-132	32	20	
1,2-Dichloroethane	mg/kg	ND	.049	.042	0.050	0.055	103	132	30-140	8	20	
1,2-Dichloropropane	mg/kg	ND	.049	.042	0.048	0.048	98	117	29-135	2	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.049	.042	0.011	0.0095	23	23	10-143	16	20	
1,3-Dichlorobenzene	mg/kg	ND	.049	.042	0.011	0.014	22	33	10-130	24	20	
1,3-Dichloropropane	mg/kg	ND	.049	.042	0.040	0.047	83	113	17-139	15	20	
1,4-Dichlorobenzene	mg/kg	ND	.049	.042	0.0097	0.013	20	31	10-128	29	20	
2,2-Dichloropropane	mg/kg	ND	.049	.042	0.072	0.059	147	143	29-136	19	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103641 1103642

Parameter	Units	5098084007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	mg/kg	ND	.24	.2	0.37	0.34	153	164	22-176	9	20	
2-Chlorotoluene	mg/kg	ND	.049	.042	0.012	0.012	25	29	10-146	3	20	
2-Hexanone	mg/kg	ND	.24	.2	0.25	0.27	102	128	12-165	6	20	
4-Chlorotoluene	mg/kg	ND	.049	.042	0.010	0.011	21	28	10-138	11	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.24	.2	0.32	0.30	133	142	22-155	9	20	
Acetone	mg/kg	ND	.24	.2	0.54	0.34	223	163	11-200	47	20	M0
Acrolein	mg/kg	ND	.97	.83	0.20	0.37	20	45	10-200	61	20	
Acrylonitrile	mg/kg	ND	.97	.83	1.1	1.3	109	151	20-150	16	20	
Benzene	mg/kg	ND	.049	.042	0.045	0.046	93	111	27-140	2	20	
Bromobenzene	mg/kg	ND	.049	.042	0.013	0.020	26	48	10-133	43	20	
Bromochloromethane	mg/kg	ND	.049	.042	0.049	0.052	102	126	28-142	5	20	
Bromodichloromethane	mg/kg	ND	.049	.042	0.042	0.045	87	110	13-139	7	20	
Bromoform	mg/kg	ND	.049	.042	0.034	0.039	71	95	10-122	14	20	
Bromomethane	mg/kg	ND	.049	.042	0.068	0.065	139	157	10-154	4	20	
Carbon disulfide	mg/kg	ND	.097	.083	0.090	0.086	93	103	20-142	5	20	
Carbon tetrachloride	mg/kg	ND	.049	.042	0.051	0.041	104	99	19-135	22	20	
Chlorobenzene	mg/kg	ND	.049	.042	0.016	0.020	33	48	10-136	20	20	
Chloroethane	mg/kg	ND	.049	.042	0.070	0.058	143	141	24-161	18	20	
Chloroform	mg/kg	ND	.049	.042	0.052	0.050	106	120	36-138	4	20	
Chloromethane	mg/kg	ND	.049	.042	0.074	0.061	153	147	28-143	20	20	M0
cis-1,2-Dichloroethene	mg/kg	ND	.049	.042	0.046	0.051	95	123	29-136	10	20	
cis-1,3-Dichloropropene	mg/kg	ND	.049	.042	0.030	0.035	61	84	10-130	15	20	
Dibromochloromethane	mg/kg	ND	.049	.042	0.036	0.044	75	106	10-124	18	20	
Dibromomethane	mg/kg	ND	.049	.042	0.041	0.049	85	117	24-136	16	20	
Dichlorodifluoromethane	mg/kg	ND	.049	.042	0.090	0.074	185	179	15-187	19	20	
Ethyl methacrylate	mg/kg	ND	.19	.17	ND	0.12	12	71	10-147		20	
Ethylbenzene	mg/kg	ND	.049	.042	0.015	0.015	30	37	10-144	3	20	
Hexachloro-1,3-butadiene	mg/kg	ND	.049	.042	.0041J	.0033J	9	8	10-136		20	M0
Iodomethane	mg/kg	ND	.097	.083	0.11	0.11	112	139	10-155	5	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.049	.042	0.011	0.011	22	25	10-134	2	20	
Methyl-tert-butyl ether	mg/kg	ND	.097	.083	0.18	0.14	183	169	30-147	23	20	M0
Methylene Chloride	mg/kg	ND	.049	.042	0.062	0.058	95	102	23-150	7	20	
n-Butylbenzene	mg/kg	ND	.049	.042	0.0071	0.0065	15	16	10-141	10	20	
n-Hexane	mg/kg	ND	.049	.042	0.065	0.044	134	105	10-140	39	20	N2
n-Propylbenzene	mg/kg	ND	.049	.042	0.0096	0.0082	20	20	10-143	16	20	
Naphthalene	mg/kg	ND	.049	.042	0.010	0.019	21	47	10-130	62	20	
p-Isopropyltoluene	mg/kg	ND	.049	.042	0.0073	0.0058	15	14	10-146	23	20	
sec-Butylbenzene	mg/kg	ND	.049	.042	0.0074	0.0054	15	13	10-150	31	20	
Styrene	mg/kg	ND	.049	.042	0.012	0.019	25	45	10-138	42	20	
tert-Butylbenzene	mg/kg	ND	.049	.042	0.011	0.0081	23	20	10-135	33	20	
Tetrachloroethene	mg/kg	ND	.049	.042	0.017	0.014	35	35	10-153	18	20	
Toluene	mg/kg	ND	.049	.042	0.022	0.024	46	57	10-140	6	20	
trans-1,2-Dichloroethene	mg/kg	ND	.049	.042	0.044	0.043	91	104	28-139	3	20	
trans-1,3-Dichloropropene	mg/kg	ND	.049	.042	0.026	0.034	53	82	10-126	27	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.19	.17	.079J	0.14	41	84	10-132		20	
Trichloroethene	mg/kg	ND	.049	.042	0.029	0.030	60	72	17-148	2	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103641 1103642

Parameter	Units	5098084007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	mg/kg	ND	.049	.042	0.079	0.064	163	154	31-177	21	20	
Vinyl acetate	mg/kg	ND	.19	.17	ND	ND	20	4	10-131		20	
Vinyl chloride	mg/kg	ND	.049	.042	0.066	0.061	136	147	30-145	8	20	
Xylene (Total)	mg/kg	ND	.14	.12	0.041	0.045	28	36	10-143	9	20	
4-Bromofluorobenzene (S)	%.						96	104	56-144			
Dibromofluoromethane (S)	%.						96	95	85-118			3d,4d
Toluene-d8 (S)	%.						108	101	71-128			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: MSV/65316
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098084014

METHOD BLANK: 1103643
Matrix: Solid
Associated Lab Samples: 5098084014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/01/14 06:57	
2-Butanone (MEK)	mg/kg	ND	0.025	06/01/14 06:57	
2-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 06:57	
2-Hexanone	mg/kg	ND	0.10	06/01/14 06:57	
4-Chlorotoluene	mg/kg	ND	0.0050	06/01/14 06:57	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/01/14 06:57	
Acetone	mg/kg	ND	0.10	06/01/14 06:57	
Acrolein	mg/kg	ND	0.10	06/01/14 06:57	
Acrylonitrile	mg/kg	ND	0.10	06/01/14 06:57	
Benzene	mg/kg	ND	0.0050	06/01/14 06:57	
Bromobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Bromochloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Bromodichloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Bromoform	mg/kg	ND	0.0050	06/01/14 06:57	
Bromomethane	mg/kg	ND	0.0050	06/01/14 06:57	
Carbon disulfide	mg/kg	ND	0.010	06/01/14 06:57	
Carbon tetrachloride	mg/kg	ND	0.0050	06/01/14 06:57	
Chlorobenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Chloroethane	mg/kg	ND	0.0050	06/01/14 06:57	
Chloroform	mg/kg	ND	0.0050	06/01/14 06:57	
Chloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	

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(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

METHOD BLANK: 1103643 Matrix: Solid
Associated Lab Samples: 5098084014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
Dibromochloromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Dibromomethane	mg/kg	ND	0.0050	06/01/14 06:57	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Ethyl methacrylate	mg/kg	ND	0.10	06/01/14 06:57	
Ethylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/01/14 06:57	
Iodomethane	mg/kg	ND	0.10	06/01/14 06:57	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/01/14 06:57	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/01/14 06:57	
Methylene Chloride	mg/kg	ND	0.020	06/01/14 06:57	
n-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
n-Hexane	mg/kg	ND	0.0050	06/01/14 06:57	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Naphthalene	mg/kg	ND	0.0050	06/01/14 06:57	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/01/14 06:57	
sec-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Styrene	mg/kg	ND	0.0050	06/01/14 06:57	
tert-Butylbenzene	mg/kg	ND	0.0050	06/01/14 06:57	
Tetrachloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
Toluene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/01/14 06:57	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/01/14 06:57	
Trichloroethene	mg/kg	ND	0.0050	06/01/14 06:57	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/01/14 06:57	
Vinyl acetate	mg/kg	ND	0.10	06/01/14 06:57	
Vinyl chloride	mg/kg	ND	0.0050	06/01/14 06:57	
Xylene (Total)	mg/kg	ND	0.010	06/01/14 06:57	
4-Bromofluorobenzene (S)	%.	97	56-144	06/01/14 06:57	
Dibromofluoromethane (S)	%.	110	85-118	06/01/14 06:57	
Toluene-d8 (S)	%.	94	71-128	06/01/14 06:57	

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.047	93	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.050	100	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.044	89	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.043	86	74-129	
1,1-Dichloroethane	mg/kg	.05	0.053	106	73-130	
1,1-Dichloroethene	mg/kg	.05	0.051	101	66-126	
1,1-Dichloropropene	mg/kg	.05	0.054	108	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.041	82	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.039	78	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.034	68	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.048	96	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.041	82	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.045	89	73-122	
1,2-Dichloroethane	mg/kg	.05	0.046	93	73-127	
1,2-Dichloropropane	mg/kg	.05	0.045	90	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.048	96	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.045	90	73-121	
1,3-Dichloropropane	mg/kg	.05	0.047	93	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.042	83	75-119	
2,2-Dichloropropane	mg/kg	.05	0.049	98	63-122	
2-Butanone (MEK)	mg/kg	.25	0.20	82	59-139	
2-Chlorotoluene	mg/kg	.05	0.048	97	72-121	
2-Hexanone	mg/kg	.25	0.20	78	56-139	
4-Chlorotoluene	mg/kg	.05	0.045	90	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.19	78	63-136	
Acetone	mg/kg	.25	0.22	87	46-156	
Acrolein	mg/kg	1	0.74	74	47-200	
Acrylonitrile	mg/kg	1	0.86	86	67-130	
Benzene	mg/kg	.05	0.053	106	74-119	
Bromobenzene	mg/kg	.05	0.046	91	69-129	
Bromochloromethane	mg/kg	.05	0.047	95	67-129	
Bromodichloromethane	mg/kg	.05	0.047	95	68-121	
Bromoform	mg/kg	.05	0.040	80	49-124	
Bromomethane	mg/kg	.05	0.053	106	44-142	
Carbon disulfide	mg/kg	.1	0.11	105	61-129	
Carbon tetrachloride	mg/kg	.05	0.050	101	58-127	
Chlorobenzene	mg/kg	.05	0.045	91	77-122	
Chloroethane	mg/kg	.05	0.051	102	59-141	
Chloroform	mg/kg	.05	0.046	92	75-124	
Chloromethane	mg/kg	.05	0.035	71	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.050	100	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.039	77	68-115	
Dibromochloromethane	mg/kg	.05	0.045	90	60-121	
Dibromomethane	mg/kg	.05	0.046	91	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.058	117	26-186	
Ethyl methacrylate	mg/kg	.2	0.16	79	63-130	
Ethylbenzene	mg/kg	.05	0.050	101	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.042	84	55-139	
Iodomethane	mg/kg	.1	0.10	102	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.054	108	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.089	89	68-120	
Methylene Chloride	mg/kg	.05	0.051	102	57-142	
n-Butylbenzene	mg/kg	.05	0.041	83	68-125	
n-Hexane	mg/kg	.05	0.056	112	57-117	N2
n-Propylbenzene	mg/kg	.05	0.044	88	68-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1103644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.035	70	67-131	
p-Isopropyltoluene	mg/kg	.05	0.043	87	66-133	
sec-Butylbenzene	mg/kg	.05	0.045	91	64-131	
Styrene	mg/kg	.05	0.050	99	70-126	
tert-Butylbenzene	mg/kg	.05	0.044	88	46-124	
Tetrachloroethene	mg/kg	.05	0.048	96	72-126	
Toluene	mg/kg	.05	0.047	95	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.049	98	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.038	76	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.15	74	61-124	
Trichloroethene	mg/kg	.05	0.051	103	74-123	
Trichlorofluoromethane	mg/kg	.05	0.047	94	72-146	
Vinyl acetate	mg/kg	.2	0.17	84	57-131	
Vinyl chloride	mg/kg	.05	0.046	91	55-128	
Xylene (Total)	mg/kg	.15	0.16	106	66-124	
4-Bromofluorobenzene (S)	%.			100	56-144	
Dibromofluoromethane (S)	%.			94	85-118	
Toluene-d8 (S)	%.			103	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: MSV/65337
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098084001

METHOD BLANK: 1104135
Matrix: Solid
Associated Lab Samples: 5098084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/02/14 14:16	
2-Butanone (MEK)	mg/kg	ND	0.025	06/02/14 14:16	
2-Chlorotoluene	mg/kg	ND	0.0050	06/02/14 14:16	
2-Hexanone	mg/kg	ND	0.10	06/02/14 14:16	
4-Chlorotoluene	mg/kg	ND	0.0050	06/02/14 14:16	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/02/14 14:16	
Acetone	mg/kg	ND	0.10	06/02/14 14:16	
Acrolein	mg/kg	ND	0.10	06/02/14 14:16	
Acrylonitrile	mg/kg	ND	0.10	06/02/14 14:16	
Benzene	mg/kg	ND	0.0050	06/02/14 14:16	
Bromobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Bromochloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Bromodichloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Bromoform	mg/kg	ND	0.0050	06/02/14 14:16	
Bromomethane	mg/kg	ND	0.0050	06/02/14 14:16	
Carbon disulfide	mg/kg	ND	0.010	06/02/14 14:16	
Carbon tetrachloride	mg/kg	ND	0.0050	06/02/14 14:16	
Chlorobenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Chloroethane	mg/kg	ND	0.0050	06/02/14 14:16	
Chloroform	mg/kg	ND	0.0050	06/02/14 14:16	
Chloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

METHOD BLANK: 1104135 Matrix: Solid
Associated Lab Samples: 5098084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
Dibromochloromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Dibromomethane	mg/kg	ND	0.0050	06/02/14 14:16	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Ethyl methacrylate	mg/kg	ND	0.10	06/02/14 14:16	
Ethylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/02/14 14:16	
Iodomethane	mg/kg	ND	0.10	06/02/14 14:16	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/02/14 14:16	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/02/14 14:16	
Methylene Chloride	mg/kg	ND	0.020	06/02/14 14:16	
n-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
n-Hexane	mg/kg	ND	0.0050	06/02/14 14:16	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Naphthalene	mg/kg	ND	0.0050	06/02/14 14:16	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/02/14 14:16	
sec-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Styrene	mg/kg	ND	0.0050	06/02/14 14:16	
tert-Butylbenzene	mg/kg	ND	0.0050	06/02/14 14:16	
Tetrachloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
Toluene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/02/14 14:16	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/02/14 14:16	
Trichloroethene	mg/kg	ND	0.0050	06/02/14 14:16	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/02/14 14:16	
Vinyl acetate	mg/kg	ND	0.10	06/02/14 14:16	
Vinyl chloride	mg/kg	ND	0.0050	06/02/14 14:16	
Xylene (Total)	mg/kg	ND	0.010	06/02/14 14:16	
4-Bromofluorobenzene (S)	%.	93	56-144	06/02/14 14:16	
Dibromofluoromethane (S)	%.	105	85-118	06/02/14 14:16	
Toluene-d8 (S)	%.	95	71-128	06/02/14 14:16	

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.049	98	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.052	103	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.046	91	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.052	104	74-129	
1,1-Dichloroethane	mg/kg	.05	0.060	120	73-130	
1,1-Dichloroethene	mg/kg	.05	0.052	104	66-126	
1,1-Dichloropropene	mg/kg	.05	0.054	109	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.043	85	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.043	87	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.042	84	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.050	101	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.050	100	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.048	97	73-122	
1,2-Dichloroethane	mg/kg	.05	0.052	104	73-127	
1,2-Dichloropropane	mg/kg	.05	0.051	101	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.051	102	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.049	97	73-121	
1,3-Dichloropropane	mg/kg	.05	0.049	98	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.047	94	75-119	
2,2-Dichloropropane	mg/kg	.05	0.058	116	63-122	
2-Butanone (MEK)	mg/kg	.25	0.26	105	59-139	
2-Chlorotoluene	mg/kg	.05	0.050	99	72-121	
2-Hexanone	mg/kg	.25	0.23	91	56-139	
4-Chlorotoluene	mg/kg	.05	0.049	97	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	93	63-136	
Acetone	mg/kg	.25	0.23	92	46-156	
Acrolein	mg/kg	1	0.75	75	47-200	
Acrylonitrile	mg/kg	1	1.0	105	67-130	
Benzene	mg/kg	.05	0.058	116	74-119	
Bromobenzene	mg/kg	.05	0.048	97	69-129	
Bromochloromethane	mg/kg	.05	0.048	96	67-129	
Bromodichloromethane	mg/kg	.05	0.050	101	68-121	
Bromoform	mg/kg	.05	0.043	87	49-124	
Bromomethane	mg/kg	.05	0.052	105	44-142	
Carbon disulfide	mg/kg	.1	0.11	105	61-129	
Carbon tetrachloride	mg/kg	.05	0.052	104	58-127	
Chlorobenzene	mg/kg	.05	0.048	96	77-122	
Chloroethane	mg/kg	.05	0.044	88	59-141	
Chloroform	mg/kg	.05	0.050	99	75-124	
Chloromethane	mg/kg	.05	0.044	89	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.052	104	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.045	90	68-115	
Dibromochloromethane	mg/kg	.05	0.048	96	60-121	
Dibromomethane	mg/kg	.05	0.051	102	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.048	96	26-186	
Ethyl methacrylate	mg/kg	.2	0.18	89	63-130	
Ethylbenzene	mg/kg	.05	0.056	112	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.044	87	55-139	
Iodomethane	mg/kg	.1	.092J	92	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.058	115	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.11	106	68-120	
Methylene Chloride	mg/kg	.05	0.048	96	57-142	
n-Butylbenzene	mg/kg	.05	0.045	90	68-125	
n-Hexane	mg/kg	.05	0.055	110	57-117	N2
n-Propylbenzene	mg/kg	.05	0.055	110	68-122	

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1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

LABORATORY CONTROL SAMPLE: 1104136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.037	75	67-131	
p-Isopropyltoluene	mg/kg	.05	0.050	99	66-133	
sec-Butylbenzene	mg/kg	.05	0.051	102	64-131	
Styrene	mg/kg	.05	0.054	107	70-126	
tert-Butylbenzene	mg/kg	.05	0.054	107	46-124	
Tetrachloroethene	mg/kg	.05	0.048	96	72-126	
Toluene	mg/kg	.05	0.047	95	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	105	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.045	89	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.19	93	61-124	
Trichloroethene	mg/kg	.05	0.051	102	74-123	
Trichlorofluoromethane	mg/kg	.05	0.046	91	72-146	
Vinyl acetate	mg/kg	.2	0.20	100	57-131	
Vinyl chloride	mg/kg	.05	0.044	88	55-128	
Xylene (Total)	mg/kg	.15	0.16	107	66-124	
4-Bromofluorobenzene (S)	%.			106	56-144	
Dibromofluoromethane (S)	%.			96	85-118	
Toluene-d8 (S)	%.			103	71-128	

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: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: PMST/9511 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098084001, 5098084002, 5098084003, 5098084004, 5098084005, 5098084006, 5098084007, 5098084008, 5098084009, 5098084011

SAMPLE DUPLICATE: 1101469

Parameter	Units	5098008003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.1	15.5	2	5	

SAMPLE DUPLICATE: 1101470

Parameter	Units	5098084007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	17.4	9	5	R1

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

QC Batch: PMST/9512 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098084012, 5098084013, 5098084014

SAMPLE DUPLICATE: 1101493

Parameter	Units	5098008017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.7	16.1	3	5	

SAMPLE DUPLICATE: 1101494

Parameter	Units	5098008024 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	15.6	0	5	

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.034 mg/kg, based on the MDL. BJG 06-02-14.
2d	MTBE ND at an estimated RL of 0.180 mg/kg, based on the MDL. BJG 06-02-14.
3d	Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. BJG 06-02-14.
4d	Multiple compounds have a RPD greater than the RPD max refer to the LCS for system control. BJG 06-02-14.
C9	Common Laboratory Contaminant.
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
J	Analyte detected below reporting limit, therefore result is an estimate.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098084

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098084001	**SB-27 (8-10.5)**	EPA 8260	MSV/65337		
5098084002	**SB-12 (6-7)**	EPA 8260	MSV/65315		
5098084003	**SB-25 (8-10)**	EPA 8260	MSV/65315		
5098084004	**SB-9 (12-13)**	EPA 8260	MSV/65315		
5098084005	**SB-9 (12-13) DUP**	EPA 8260	MSV/65315		
5098084006	**SB-9 (16-17)**	EPA 8260	MSV/65314		
5098084007	**SB-2 (2-3.5)**	EPA 8260	MSV/65315		
5098084008	**SB-19 (9-10)**	EPA 8260	MSV/65315		
5098084009	**SB-1 (12-13.5)**	EPA 8260	MSV/65315		
5098084011	**SB-17 (14-15)**	EPA 8260	MSV/65315		
5098084012	**SB-13 (13-14)**	EPA 8260	MSV/65315		
5098084013	**SB-12 (16-17.5)**	EPA 8260	MSV/65315		
5098084014	**SB-27 (4-6)**	EPA 8260	MSV/65316		
5098084001	**SB-27 (8-10.5)**	ASTM D2974-87	PMST/9511		
5098084002	**SB-12 (6-7)**	ASTM D2974-87	PMST/9511		
5098084003	**SB-25 (8-10)**	ASTM D2974-87	PMST/9511		
5098084004	**SB-9 (12-13)**	ASTM D2974-87	PMST/9511		
5098084005	**SB-9 (12-13) DUP**	ASTM D2974-87	PMST/9511		
5098084006	**SB-9 (16-17)**	ASTM D2974-87	PMST/9511		
5098084007	**SB-2 (2-3.5)**	ASTM D2974-87	PMST/9511		
5098084008	**SB-19 (9-10)**	ASTM D2974-87	PMST/9511		
5098084009	**SB-1 (12-13.5)**	ASTM D2974-87	PMST/9511		
5098084011	**SB-17 (14-15)**	ASTM D2974-87	PMST/9511		
5098084012	**SB-13 (13-14)**	ASTM D2974-87	PMST/9512		
5098084013	**SB-12 (16-17.5)**	ASTM D2974-87	PMST/9512		
5098084014	**SB-27 (4-6)**	ASTM D2974-87	PMST/9512		

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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.

103A

Page: 1 of 2

1764669

Section A Required Client Information:

Company: BCA
Address: 6330 E 75th St. Suite 150
Indianapolis IN. 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT: STND

Section B Required Project Information:

Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloomington CTP
Project Number: 14-127

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN.

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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): VOC-8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-27 (8-10.5)	SL	G			5/20/14	0940		4	1						1	2	X		001
2	SB-12 (6-7)					5/20/14	1200		4	1						1	2	X		002
3	SB-25 (8-10)					5/19/14	1135		4	1						1	2	X		003
4	SB-9 (12-13)					5/19/14	1430		4	1						1	2	X		004
5	SB-9 (12-13) Dup					5/19/14	1430		4	1						1	2	X		005
6	SB-9 (16-17)					5/19/14	1435		4	1						1	2	X		006
7	SB-2 (2-3.5)					5/19/14	1030		12	3						3	6	X	MS/MSD	007
8	SB-19 (9-10)					5/19/14	0850		4	1						1	2	X		008
9	SB-1 (12-13.5)					5/19/14	1320		4	1						1	2	X		009
10	SB-25 (8-10)					5/19/14	1135		4	1						1	2	X		010
11	SB-17 (14-15)					5/20/14	1005		4	1						1	2	X	Same as -003	~~010~~ 011
12	SB-13 (13-14)					5/19/14	0930		4	1						1	2	X		012

5198084

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
—	[signature] / BCA	5/20/14	1325	[signature]	5/20/14	1330				
				Colette Weaver / PACE	05/20/14	1708	0.9°C	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: L. Hinrichs
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 5/20/14

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.

F-ALL-Q-020rev.07, 15-May-2007

W/ NOW

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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.

1764670

Section A Required Client Information:

Company: BCA
Address: 10330 E. 75th St. Suite 150
Indianapolis, IN. 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT: STND

Section B Required Project Information:

Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloomington CTP
Project Number: 14-127

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Reagina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN.

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: VOCs - 8260

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-12 (16-17.5)	SL	G			5/20/14	1210		4	1						1	2	X		013
2	SB-27 (4-16) 5-21-14 11:16																			014
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

5198084

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
—	[signature] / BCA	5/20/14	1325	[signature]	5/20/14	1310	1			
				Colette Weaver / PACE	05/20/14	1708	0.9c	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Len Hinrichs
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/20/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: BCA Project # 5098084

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other Now

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 052014/1743

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used 1 2 3 4 6 A B (C) D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9c **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Corrected, If applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 052014 CW

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8. Rcvd samples not listed on COC SB-27 (4-6') 5/20/14 @0835
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	10.
Trip Blank Present:	☐Yes	☐No	☑N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Len H. Date/Time: 5/20/14 1806

Comments/ Resolution: SB-12 (6-7) DI vials are 2 different colors, SB-2 (2-3.5) DI vials are 2 different colors.
Received SB-27 (4-6) not on COC - analyze per Len
Vials for SB-12 (6-7) and SB-2 (2-3.5) MS & MSD differing colors - Variable materials noticed while sampling.
SB-25 (8-10) probably just listed twice on COC since we only have one set of containers. 5-23-14 KMB

Project Manager Review: Regina N Bell **Date:** 5/21/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 2
COC ID# 1764689

Project # 5098084

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6 Bulk	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	____	pH <2	pH>12	Comments
1						4															
2																					
3																					
4																					
5																					
6						4															
7						12															
8						4															
9																					
10																					
11																					
12						4															

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

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CLIENT: BCA

COC PAGE 2 of 2
COC ID# 1764670

Project # 5198084

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6 (Bulk)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	____	pH <2	pH>12	Comments
1					4															
2					4															SB-27 (4-6')
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

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Columbus, OH 43215
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(317)228-3100

August 07, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Hexavalent Chromium and 6020 ICP-MS were added for 5098388001, 5098388011, 5098388015, and 5098388025 on June 20,2014.

6020 ICP-MS was added for 5098388003, 5098388006, 5098388013, and 5098388024 in this revised report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina K Bedel

Regina Bedel
regina.bedel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Bloomington CTP 14-127
Pace Project No.:	5098388

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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Indianapolis, IN 46268
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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098388001	**SB-GW-27**	Water	05/22/14 10:25	05/27/14 16:54
5098388002	**SB-GW-13**	Water	05/23/14 08:25	05/27/14 16:54
5098388003	**SB-GW-25**	Water	05/23/14 09:00	05/27/14 16:54
5098388004	**SB-GW-1**	Water	05/23/14 10:15	05/27/14 16:54
5098388005	**SB-GW-23**	Water	05/23/14 11:58	05/27/14 16:54
5098388006	**SB-GW-9**	Water	05/23/14 16:00	05/27/14 16:54
5098388007	**EB-1**	Water	05/23/14 15:35	05/27/14 16:54
5098388008	**SB-GW-13**	Water	05/24/14 10:30	05/27/14 16:54
5098388009	**SB-GW-11**	Water	05/24/14 11:30	05/27/14 16:54
5098388010	**SB-GW-3**	Water	05/24/14 12:30	05/27/14 16:54
5098388011	**SB-GW-18**	Water	05/24/14 13:45	05/27/14 16:54
5098388012	**SB-GW-20**	Water	05/24/14 17:00	05/27/14 16:54
5098388013	**SB-GW-15**	Water	05/24/14 17:30	05/27/14 16:54
5098388014	**EB-2**	Water	05/24/14 18:20	05/27/14 16:54
5098388015	**SB-GW-17**	Water	05/26/14 14:35	05/27/14 16:54
5098388016	**SB-GW-20**	Water	05/26/14 16:18	05/27/14 16:54
5098388017	**SB-GW-3 DUP**	Water	05/24/14 12:30	05/27/14 16:54
5098388018	**SB-GW-3**	Water	05/26/14 17:00	05/27/14 16:54
5098388019	**SB-GW-3 DUP**	Water	05/26/14 17:00	05/27/14 16:54
5098388020	**SB-GW-4**	Water	05/26/14 17:45	05/27/14 16:54
5098388021	**SB-GW-4 DUP**	Water	05/26/14 17:45	05/27/14 16:54
5098388022	**EB-3**	Water	05/26/14 18:10	05/27/14 16:54
5098388023	**SB-GW-24**	Water	05/27/14 10:25	05/27/14 16:54
5098388024	**SB-GW-3**	Water	05/27/14 11:00	05/27/14 16:54
5098388025	**SB-GW-7**	Water	05/27/14 11:40	05/27/14 16:54
5098388026	**SB-GW-3**	Water	05/26/14 17:00	05/27/14 16:54
5098388027	**TB - WATER**	Water	05/22/14 08:00	05/27/14 16:54
5098388028	**TB - SOIL**	Solid	05/22/14 08:00	05/27/14 16:54

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098388001	**SB-GW-27**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	4	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
		EPA 7196	TPD	1	PASI-I
5098388002	**SB-GW-13**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388003	**SB-GW-25**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	2	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388004	**SB-GW-1**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388005	**SB-GW-23**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388006	**SB-GW-9**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	3	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388007	**EB-1**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388009	**SB-GW-11**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388010	**SB-GW-3**	EPA 8260	DAE	73	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098388011	**SB-GW-18**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	4	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
		EPA 7196	TPD	1	PASI-I
5098388012	**SB-GW-20**	EPA 8260	DAE	73	PASI-I
5098388013	**SB-GW-15**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	1	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388014	**EB-2**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388015	**SB-GW-17**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	4	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
		EPA 7196	TPD	1	PASI-I
5098388016	**SB-GW-20**	EPA 8270 by SIM LVE	CEM	20	PASI-I
5098388017	**SB-GW-3 DUP**	EPA 8260	DAE	73	PASI-I
5098388018	**SB-GW-3**	EPA 8270 by SIM LVE	CEM	20	PASI-I
5098388019	**SB-GW-3 DUP**	EPA 8270 by SIM LVE	CEM	20	PASI-I
5098388020	**SB-GW-4**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388021	**SB-GW-4 DUP**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
5098388022	**EB-3**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388023	**SB-GW-24**	EPA 6010	FRW	13	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
5098388024	**SB-GW-3**	EPA 6020	KJR	4	PASI-I
5098388025	**SB-GW-7**	EPA 6010	FRW	13	PASI-I
		EPA 6020	KJR	4	PASI-I
		EPA 7470	FRW	1	PASI-I
		EPA 8270 by SIM LVE	CEM	20	PASI-I
		EPA 8260	DAE	73	PASI-I
		EPA 7196	TPD	1	PASI-I
5098388026	**SB-GW-3**	EPA 6010	FRW	13	PASI-I
		EPA 7470	FRW	1	PASI-I
5098388027	**TB - WATER**	EPA 8260	DAE	73	PASI-I
5098388028	**TB - SOIL**	EPA 8260	BJG	73	PASI-I

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-27 **Lab ID: 5098388001** Collected: 05/22/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:17	7440-36-0	
Arsenic	**52.0**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-38-2	
Barium	**1410**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-39-3	
Beryllium	**4.7**	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:17	7440-41-7	
Cadmium	**5.1**	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:17	7440-43-9	
Chromium	**80.6**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-47-3	
Copper	**156**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-50-8	
Lead	**290**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7439-92-1	
Nickel	**98.4**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:17	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 11:50	7440-28-0	
Zinc	**1030**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:17	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	**2.3**	ug/L	1.0	1	06/18/14 13:11	06/19/14 10:53	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 10:53	7440-41-7	
Chromium, Dissolved	**2.1**	ug/L	1.0	1	06/18/14 13:11	06/19/14 10:53	7440-47-3	
Lead, Dissolved	**11.7**	ug/L	1.0	1	06/18/14 13:11	06/19/14 10:53	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 12:50	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	208-96-8	
Anthracene	**0.25**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	120-12-7	
Benzo(a)anthracene	**0.24**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	56-55-3	
Benzo(a)pyrene	**0.26**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	50-32-8	
Benzo(b)fluoranthene	**0.18**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	205-99-2	
Benzo(g,h,i)perylene	**0.16**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	191-24-2	
Benzo(k)fluoranthene	**0.27**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 04:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12**	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:13	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%.	21-114	1	05/28/14 14:51	05/30/14 04:13	321-60-8	
p-Terphenyl-d14 (S)	77	%.	25-131	1	05/28/14 14:51	05/30/14 04:13	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-27 **Lab ID: 5098388001** Collected: 05/22/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/05/14 18:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/05/14 18:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/05/14 18:55	107-13-1	
Benzene	ND	ug/L	5.0	1		06/05/14 18:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/05/14 18:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/05/14 18:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/05/14 18:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/05/14 18:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/05/14 18:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/05/14 18:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/05/14 18:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/05/14 18:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/05/14 18:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/05/14 18:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/05/14 18:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/05/14 18:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/05/14 18:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/05/14 18:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/05/14 18:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/05/14 18:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/05/14 18:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/05/14 18:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/05/14 18:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/05/14 18:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/05/14 18:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/14 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/14 18:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/05/14 18:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/05/14 18:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/05/14 18:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/05/14 18:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/14 18:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/14 18:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/05/14 18:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/05/14 18:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/05/14 18:55	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/05/14 18:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/05/14 18:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/05/14 18:55	98-82-8	

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7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-27 **Lab ID: 5098388001** Collected: 05/22/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/05/14 18:55	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/05/14 18:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/05/14 18:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/05/14 18:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/05/14 18:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	103-65-1	
Styrene	ND	ug/L	5.0	1		06/05/14 18:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/14 18:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/14 18:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/05/14 18:55	127-18-4	
Toluene	ND	ug/L	5.0	1		06/05/14 18:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/05/14 18:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/05/14 18:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/05/14 18:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/05/14 18:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/05/14 18:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/05/14 18:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/05/14 18:55	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/05/14 18:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/05/14 18:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/05/14 18:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	79-116	1		06/05/14 18:55	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	80-114	1		06/05/14 18:55	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/05/14 18:55	2037-26-5	
7196 Chromium, Hex. Preserved	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		06/16/14 13:11	18540-29-9	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-13 **Lab ID: 5098388002** Collected: 05/23/14 08:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 07:54	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-38-2	
Barium	**50.2**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 07:54	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 07:54	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7439-92-1	
Nickel	**21.4**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:54	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 11:52	7440-28-0	
Zinc	**36.3**	ug/L	20.0	1	05/29/14 07:09	06/03/14 07:54	7440-66-6	1d,P2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 12:58	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 04:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 04:49	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 04:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	38	%.	21-114	1	05/28/14 14:51	05/30/14 04:49	321-60-8	
p-Terphenyl-d14 (S)	80	%.	25-131	1	05/28/14 14:51	05/30/14 04:49	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 05:04	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 05:04	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 05:04	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 05:04	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 05:04	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-13 **Lab ID: 5098388002** Collected: 05/23/14 08:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 05:04	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 05:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 05:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 05:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 05:04	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 05:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 05:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 05:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 05:04	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 05:04	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:04	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:04	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 05:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 05:04	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 05:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 05:04	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 05:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 05:04	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 05:04	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 05:04	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 05:04	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 05:04	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 05:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 05:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 05:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 05:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 05:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 05:04	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-13 **Lab ID: 5098388002** Collected: 05/23/14 08:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 05:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 05:04	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 05:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 05:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 05:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 05:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:04	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 05:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 05:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 05:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		06/06/14 05:04	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	80-114	1		06/06/14 05:04	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 05:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-25 **Lab ID: 5098388003** Collected: 05/23/14 09:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 07:56	7440-36-0	
Arsenic	**11.7**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-38-2	
Barium	**622**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 07:56	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 07:56	7440-43-9	
Chromium	**15.0**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-47-3	
Copper	**15.3**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-50-8	
Lead	**15.1**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7439-92-1	
Nickel	**14.1**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 11:54	7440-28-0	
Zinc	**50.5**	ug/L	20.0	1	05/29/14 07:09	06/03/14 07:56	7440-66-6	1d
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	**1.1**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:45	7440-38-2	
Lead, Dissolved	**2.7**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:45	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:01	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 05:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:07	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	21-114	1	05/28/14 14:51	05/30/14 05:07	321-60-8	
p-Terphenyl-d14 (S)	89	%.	25-131	1	05/28/14 14:51	05/30/14 05:07	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 05:37	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-25 **Lab ID: 5098388003** Collected: 05/23/14 09:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acrolein	ND	ug/L	50.0	1		06/06/14 05:37	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 05:37	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 05:37	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 05:37	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 05:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 05:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 05:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 05:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 05:37	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 05:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 05:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 05:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 05:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 05:37	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:37	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:37	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 05:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 05:37	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 05:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 05:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 05:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 05:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 05:37	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 05:37	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 05:37	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 05:37	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 05:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 05:37	99-87-6	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-25 **Lab ID: 5098388003** Collected: 05/23/14 09:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 05:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 05:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 05:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 05:37	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 05:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 05:37	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 05:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 05:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 05:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 05:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:37	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 05:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 05:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 05:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	79-116	1		06/06/14 05:37	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/06/14 05:37	460-00-4	
Toluene-d8 (S)	105	%.	81-110	1		06/06/14 05:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-1 **Lab ID: 5098388004** Collected: 05/23/14 10:15 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 07:58	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-38-2	
Barium	**129**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 07:58	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 07:58	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-50-8	
Lead	**10.0**	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 07:58	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 11:57	7440-28-0	
Zinc	**32.3**	ug/L	20.0	1	05/29/14 07:09	06/03/14 07:58	7440-66-6	1d
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:03	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 05:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:26	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%.	21-114	1	05/28/14 14:51	05/30/14 05:26	321-60-8	
p-Terphenyl-d14 (S)	84	%.	25-131	1	05/28/14 14:51	05/30/14 05:26	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 06:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 06:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 06:10	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 06:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 06:10	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-1 **Lab ID: 5098388004** Collected: 05/23/14 10:15 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 06:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 06:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 06:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 06:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 06:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 06:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 06:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 06:10	75-00-3	
Chloroform	**17.4**	ug/L	5.0	1		06/06/14 06:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 06:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 06:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 06:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 06:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 06:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 06:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 06:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 06:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 06:10	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 06:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 06:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 06:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 06:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 06:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 06:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 06:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 06:10	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-1 **Lab ID: 5098388004** Collected: 05/23/14 10:15 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 06:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 06:10	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 06:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 06:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 06:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 06:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:10	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 06:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 06:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 06:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	79-116	1		06/06/14 06:10	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/06/14 06:10	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 06:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-23 **Lab ID: 5098388005** Collected: 05/23/14 11:58 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:00	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-38-2	
Barium	**278**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:00	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:00	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7439-92-1	
Nickel	**11.9**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:00	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 11:59	7440-28-0	
Zinc	**34.1**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:00	7440-66-6	1d
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:05	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 05:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 05:44	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 05:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	64	%.	21-114	1	05/28/14 14:51	05/30/14 05:44	321-60-8	
p-Terphenyl-d14 (S)	83	%.	25-131	1	05/28/14 14:51	05/30/14 05:44	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 06:43	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 06:43	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 06:43	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 06:43	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 06:43	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-23 **Lab ID: 5098388005** Collected: 05/23/14 11:58 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 06:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 06:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 06:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 06:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 06:43	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 06:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 06:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 06:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 06:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 06:43	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:43	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:43	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 06:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 06:43	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 06:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 06:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 06:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 06:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 06:43	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 06:43	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 06:43	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 06:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 06:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 06:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 06:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 06:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 06:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 06:43	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-23 **Lab ID: 5098388005** Collected: 05/23/14 11:58 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 06:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 06:43	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 06:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 06:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 06:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 06:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:43	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 06:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 06:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 06:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		06/06/14 06:43	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/06/14 06:43	460-00-4	
Toluene-d8 (S)	103	%.	81-110	1		06/06/14 06:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-9 **Lab ID: 5098388006** Collected: 05/23/14 16:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:02	7440-36-0	
Arsenic	**27.1**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-38-2	
Barium	**1080**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:02	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:02	7440-43-9	
Chromium	**17.9**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-50-8	
Lead	**22.8**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7439-92-1	
Nickel	**22.5**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:02	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:01	7440-28-0	
Zinc	**67.0**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:02	7440-66-6	1d
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	**14.3**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:50	7440-38-2	
Chromium, Dissolved	ND	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:50	7440-47-3	
Lead, Dissolved	**1.2**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:50	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:07	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 06:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:02	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	21-114	1	05/28/14 14:51	05/30/14 06:02	321-60-8	
p-Terphenyl-d14 (S)	72	%.	25-131	1	05/28/14 14:51	05/30/14 06:02	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-9 **Lab ID: 5098388006** Collected: 05/23/14 16:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 11:09	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 11:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 11:09	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 11:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 11:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 11:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 11:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 11:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 11:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 11:09	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 11:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 11:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 11:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 11:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 11:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 11:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 11:09	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 11:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 11:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 11:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 11:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 11:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 11:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 11:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 11:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 11:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 11:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 11:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 11:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 11:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 11:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 11:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 11:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 11:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 11:09	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 11:09	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 11:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 11:09	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 11:09	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-9 **Lab ID: 5098388006** Collected: 05/23/14 16:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 11:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 11:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 11:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 11:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 11:09	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 11:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 11:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 11:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 11:09	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 11:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 11:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 11:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 11:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 11:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 11:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 11:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 11:09	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 11:09	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 11:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 11:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	79-116	1		06/06/14 11:09	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	80-114	1		06/06/14 11:09	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 11:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-1 **Lab ID: 5098388007** Collected: 05/23/14 15:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:44	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-38-2	
Barium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:44	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:44	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:44	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:08	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:17	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 06:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 06:56	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 06:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	21-114	1	05/28/14 14:51	05/30/14 06:56	321-60-8	
p-Terphenyl-d14 (S)	93	%.	25-131	1	05/28/14 14:51	05/30/14 06:56	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 07:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 07:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 07:17	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 07:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 07:17	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-1 **Lab ID: 5098388007** Collected: 05/23/14 15:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 07:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 07:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 07:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 07:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 07:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 07:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 07:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 07:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 07:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 07:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 07:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 07:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 07:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 07:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 07:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 07:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 07:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 07:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 07:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 07:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 07:17	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 07:17	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 07:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 07:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 07:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 07:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 07:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 07:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 07:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 07:17	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-1 **Lab ID: 5098388007** Collected: 05/23/14 15:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 07:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 07:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 07:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 07:17	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 07:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 07:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 07:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 07:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 07:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 07:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 07:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 07:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 07:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 07:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	79-116	1		06/06/14 07:17	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/06/14 07:17	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 07:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-11 **Lab ID: 5098388009** Collected: 05/24/14 11:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:28	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-38-2	
Barium	**126**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:28	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:28	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:10	7440-28-0	
Zinc	**28.6**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:28	7440-66-6	1d
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:19	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 07:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:14	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	21-114	1	05/28/14 14:51	05/30/14 07:14	321-60-8	
p-Terphenyl-d14 (S)	78	%.	25-131	1	05/28/14 14:51	05/30/14 07:14	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 07:50	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 07:50	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 07:50	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 07:50	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 07:50	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-11 **Lab ID: 5098388009** Collected: 05/24/14 11:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 07:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 07:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 07:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 07:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 07:50	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 07:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 07:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 07:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 07:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 07:50	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 07:50	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 07:50	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 07:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 07:50	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 07:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 07:50	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 07:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 07:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 07:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 07:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 07:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 07:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 07:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 07:50	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 07:50	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 07:50	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 07:50	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 07:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 07:50	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 07:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 07:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 07:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 07:50	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-11 **Lab ID: 5098388009** Collected: 05/24/14 11:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 07:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 07:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 07:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 07:50	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 07:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 07:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 07:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 07:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 07:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 07:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 07:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 07:50	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 07:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 07:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 07:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	79-116	1		06/06/14 07:50	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	80-114	1		06/06/14 07:50	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 07:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 **Lab ID: 5098388010** Collected: 05/24/14 12:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 08:23	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 08:23	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 08:23	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 08:23	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 08:23	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 08:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 08:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 08:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 08:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 08:23	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 08:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 08:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 08:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 08:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 08:23	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 08:23	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 08:23	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 08:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 08:23	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 08:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 08:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 08:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 08:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 08:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 08:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 08:23	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 08:23	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 08:23	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 08:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 08:23	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 **Lab ID: 5098388010** Collected: 05/24/14 12:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 08:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 08:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 08:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 08:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 08:23	91-20-3	
n-Propylbenzene	**5.9**	ug/L	5.0	1		06/06/14 08:23	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 08:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 08:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 08:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 08:23	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 08:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 08:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 08:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 08:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 08:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 08:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 08:23	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 08:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 08:23	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 08:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	79-116	1		06/06/14 08:23	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	80-114	1		06/06/14 08:23	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 08:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-18 **Lab ID: 5098388011** Collected: 05/24/14 13:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:30	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-38-2	
Barium	**88.2**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:30	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:30	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7439-92-1	
Nickel	**18.6**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:30	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:16	7440-28-0	
Zinc	**25.4**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:30	7440-66-6	1d
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:12	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:12	7440-41-7	
Chromium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:12	7440-47-3	
Lead, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:12	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:21	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 07:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:33	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	50	%.	21-114	1	05/28/14 14:51	05/30/14 07:33	321-60-8	
p-Terphenyl-d14 (S)	68	%.	25-131	1	05/28/14 14:51	05/30/14 07:33	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-18 **Lab ID: 5098388011** Collected: 05/24/14 13:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 08:56	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 08:56	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 08:56	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 08:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 08:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 08:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 08:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 08:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 08:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 08:56	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 08:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 08:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 08:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 08:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 08:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 08:56	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 08:56	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 08:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 08:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 08:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 08:56	110-57-6	
Dichlorodifluoromethane	**180**	ug/L	5.0	1		06/06/14 08:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 08:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 08:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 08:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 08:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 08:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 08:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 08:56	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 08:56	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 08:56	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 08:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 08:56	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-18 **Lab ID: 5098388011** Collected: 05/24/14 13:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 08:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 08:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 08:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 08:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 08:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 08:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 08:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 08:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 08:56	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 08:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 08:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 08:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 08:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 08:56	79-01-6	
Trichlorofluoromethane	**108**	ug/L	5.0	1		06/06/14 08:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 08:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 08:56	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 08:56	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 08:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 08:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		06/06/14 08:56	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	80-114	1		06/06/14 08:56	460-00-4	
Toluene-d8 (S)	103	%.	81-110	1		06/06/14 08:56	2037-26-5	
7196 Chromium, Hex. Preserved	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		06/16/14 13:11	18540-29-9	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-20 **Lab ID: 5098388012** Collected: 05/24/14 17:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**101**	ug/L	100	1		06/06/14 10:36	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 10:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 10:36	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 10:36	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 10:36	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 10:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 10:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 10:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 10:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 10:36	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 10:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 10:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 10:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 10:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 10:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 10:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 10:36	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 10:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 10:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 10:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 10:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 10:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 10:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 10:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 10:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 10:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 10:36	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 10:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 10:36	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 10:36	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-20 **Lab ID: 5098388012** Collected: 05/24/14 17:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 10:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 10:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 10:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 10:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 10:36	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 10:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 10:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 10:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 10:36	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 10:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 10:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 10:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 10:36	79-01-6	
Trichlorofluoromethane	**7.1**	ug/L	5.0	1		06/06/14 10:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 10:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 10:36	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 10:36	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 10:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 10:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	79-116	1		06/06/14 10:36	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	80-114	1		06/06/14 10:36	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		06/06/14 10:36	2037-26-5	

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(317)228-3100

ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-15 **Lab ID: 5098388013** Collected: 05/24/14 17:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:32	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-38-2	
Barium	**335**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:32	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:32	7440-43-9	
Chromium	**14.4**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-47-3	
Copper	**14.4**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-50-8	
Lead	**18.9**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7439-92-1	
Nickel	**23.7**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:32	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:19	7440-28-0	
Zinc	**73.5**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:32	7440-66-6	1d
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Lead, Dissolved	**1.4**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:15	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:23	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 07:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 07:51	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 07:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	21-114	1	05/28/14 14:51	05/30/14 07:51	321-60-8	
p-Terphenyl-d14 (S)	83	%.	25-131	1	05/28/14 14:51	05/30/14 07:51	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 10:03	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 10:03	107-02-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-15 **Lab ID: 5098388013** Collected: 05/24/14 17:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		06/06/14 10:03	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 10:03	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 10:03	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 10:03	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 10:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 10:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 10:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 10:03	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 10:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 10:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 10:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 10:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 10:03	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 10:03	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 10:03	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 10:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 10:03	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 10:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 10:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 10:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 10:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 10:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 10:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 10:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 10:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 10:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 10:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 10:03	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 10:03	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 10:03	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 10:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 10:03	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 10:03	75-09-2	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-15 **Lab ID: 5098388013** Collected: 05/24/14 17:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 10:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 10:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 10:03	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 10:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 10:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 10:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 10:03	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 10:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 10:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 10:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 10:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 10:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 10:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 10:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 10:03	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 10:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 10:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 10:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		06/06/14 10:03	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/06/14 10:03	460-00-4	
Toluene-d8 (S)	103	%.	81-110	1		06/06/14 10:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-2 **Lab ID: 5098388014** Collected: 05/24/14 18:20 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:46	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-38-2	
Barium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:46	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:46	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:46	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:21	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:46	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:25	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 08:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:09	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	21-114	1	05/28/14 14:51	05/30/14 08:09	321-60-8	
p-Terphenyl-d14 (S)	87	%.	25-131	1	05/28/14 14:51	05/30/14 08:09	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 03:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 03:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 03:08	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 03:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 03:08	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-2 **Lab ID: 5098388014** Collected: 05/24/14 18:20 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 03:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 03:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 03:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 03:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 03:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 03:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 03:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 03:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 03:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 03:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 03:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 03:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 03:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 03:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 03:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 03:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 03:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 03:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 03:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 03:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 03:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 03:08	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 03:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 03:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 03:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 03:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 03:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 03:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 03:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 03:08	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-2 **Lab ID: 5098388014** Collected: 05/24/14 18:20 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 03:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 03:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 03:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 03:08	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 03:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 03:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 03:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 03:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 03:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 03:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 03:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 03:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 03:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 03:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	79-116	1		06/06/14 03:08	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/06/14 03:08	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		06/06/14 03:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-17 **Lab ID: 5098388015** Collected: 05/26/14 14:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:48	7440-36-0	
Arsenic	**21.4**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-38-2	
Barium	**410**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:48	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:48	7440-43-9	
Chromium	**45.7**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-47-3	
Copper	**41.7**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-50-8	
Lead	**33.0**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7439-92-1	
Nickel	**50.3**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:48	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:23	7440-28-0	
Zinc	**129**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:48	7440-66-6	1d
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:17	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:17	7440-41-7	
Chromium, Dissolved	**2.4**	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:17	7440-47-3	
Lead, Dissolved	**2.5**	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:17	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:27	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 08:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 08:27	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 08:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	21-114	1	05/28/14 14:51	05/30/14 08:27	321-60-8	
p-Terphenyl-d14 (S)	75	%.	25-131	1	05/28/14 14:51	05/30/14 08:27	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-17 **Lab ID: 5098388015** Collected: 05/26/14 14:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 03:41	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 03:41	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 03:41	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 03:41	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 03:41	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 03:41	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 03:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 03:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 03:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 03:41	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 03:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 03:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 03:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 03:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 03:41	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 03:41	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 03:41	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 03:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 03:41	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 03:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 03:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 03:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 03:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 03:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 03:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 03:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 03:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 03:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 03:41	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 03:41	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 03:41	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 03:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 03:41	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-17 **Lab ID: 5098388015** Collected: 05/26/14 14:35 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 03:41	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 03:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 03:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 03:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 03:41	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 03:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 03:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 03:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 03:41	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 03:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 03:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 03:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 03:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 03:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 03:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 03:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 03:41	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 03:41	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 03:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 03:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	79-116	1		06/06/14 03:41	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/06/14 03:41	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 03:41	2037-26-5	
7196 Chromium, Hex. Preserved	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		06/16/14 13:11	18540-29-9	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-20 **Lab ID: 5098388016** Collected: 05/26/14 16:18 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 09:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 09:21	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 09:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	21-114	1	05/28/14 14:51	05/30/14 09:21	321-60-8	
p-Terphenyl-d14 (S)	80	%.	25-131	1	05/28/14 14:51	05/30/14 09:21	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 DUP **Lab ID: 5098388017** Collected: 05/24/14 12:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 16:42	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 16:42	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 16:42	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 16:42	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 16:42	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 16:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 16:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 16:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 16:42	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 16:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 16:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 16:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 16:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 16:42	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 16:42	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 16:42	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 16:42	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 16:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 16:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 16:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 16:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 16:42	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 16:42	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 16:42	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 16:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 16:42	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 DUP **Lab ID: 5098388017** Collected: 05/24/14 12:30 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 16:42	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 16:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 16:42	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 16:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 16:42	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 16:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 16:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 16:42	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 16:42	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 16:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 16:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	79-116	1		06/06/14 16:42	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	80-114	1		06/06/14 16:42	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 **Lab ID: 5098388018** Collected: 05/26/14 17:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	208-96-8	
Anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	207-08-9	
Chrysene	ND	ug/L	0.56	1	05/28/14 14:51	05/30/14 09:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	206-44-0	
Fluorene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 09:39	193-39-5	
1-Methylnaphthalene	**1.1**	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	91-57-6	
Naphthalene	**1.1**	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	85-01-8	
Pyrene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 09:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	21-114	1	05/28/14 14:51	05/30/14 09:39	321-60-8	
p-Terphenyl-d14 (S)	84	%.	25-131	1	05/28/14 14:51	05/30/14 09:39	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 DUP **Lab ID: 5098388019** Collected: 05/26/14 17:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	83-32-9	
Acenaphthylene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	208-96-8	
Anthracene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	207-08-9	
Chrysene	ND	ug/L	0.67	1	05/28/14 14:51	05/30/14 09:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	53-70-3	
Fluoranthene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	206-44-0	
Fluorene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.13	1	05/28/14 14:51	05/30/14 09:57	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	91-57-6	
Naphthalene	**1.3**	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	91-20-3	
Phenanthrene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	85-01-8	
Pyrene	ND	ug/L	1.3	1	05/28/14 14:51	05/30/14 09:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	21-114	1	05/28/14 14:51	05/30/14 09:57	321-60-8	
p-Terphenyl-d14 (S)	85	%.	25-131	1	05/28/14 14:51	05/30/14 09:57	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-4 **Lab ID: 5098388020** Collected: 05/26/14 17:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:51	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-38-2	
Barium	**474**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:51	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:51	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:51	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:25	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:29	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	208-96-8	
Anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	207-08-9	
Chrysene	ND	ug/L	0.53	1	05/28/14 14:51	05/30/14 10:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	206-44-0	
Fluorene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	05/28/14 14:51	05/30/14 10:15	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	91-57-6	
Naphthalene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	85-01-8	
Pyrene	ND	ug/L	1.1	1	05/28/14 14:51	05/30/14 10:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	56	%.	21-114	1	05/28/14 14:51	05/30/14 10:15	321-60-8	
p-Terphenyl-d14 (S)	76	%.	25-131	1	05/28/14 14:51	05/30/14 10:15	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 05:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 05:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 05:20	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 05:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 05:20	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-4 **Lab ID: 5098388020** Collected: 05/26/14 17:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 05:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 05:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 05:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 05:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 05:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 05:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 05:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 05:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 05:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 05:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 05:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 05:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 05:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 05:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 05:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 05:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 05:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 05:20	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 05:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 05:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 05:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 05:20	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 05:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 05:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 05:20	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-4 **Lab ID: 5098388020** Collected: 05/26/14 17:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 05:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 05:20	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 05:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 05:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 05:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 05:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:20	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 05:20	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 05:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 05:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	79-116	1		06/06/14 05:20	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/06/14 05:20	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 05:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-4 DUP **Lab ID: 5098388021** Collected: 05/26/14 17:45 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:53	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-38-2	
Barium	**482**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:53	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:53	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:53	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:27	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:53	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:31	7439-97-6	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-3 **Lab ID: 5098388022** Collected: 05/26/14 18:10 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:55	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-38-2	
Barium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:55	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:55	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:55	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:30	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:33	7439-97-6	
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 10:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:33	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	21-114	1	05/28/14 14:51	05/30/14 10:33	321-60-8	
p-Terphenyl-d14 (S)	82	%.	25-131	1	05/28/14 14:51	05/30/14 10:33	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 05:54	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 05:54	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 05:54	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 05:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 05:54	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-3 **Lab ID: 5098388022** Collected: 05/26/14 18:10 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 05:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 05:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 05:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 05:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 05:54	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 05:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 05:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 05:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 05:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 05:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 05:54	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 05:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 05:54	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 05:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 05:54	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 05:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 05:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 05:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 05:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 05:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 05:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 05:54	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 05:54	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 05:54	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 05:54	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 05:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 05:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 05:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 05:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 05:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 05:54	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: EB-3 **Lab ID: 5098388022** Collected: 05/26/14 18:10 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 05:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 05:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 05:54	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 05:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 05:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 05:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 05:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 05:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 05:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 05:54	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 05:54	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 05:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 05:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	79-116	1		06/06/14 05:54	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/06/14 05:54	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 05:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-24 **Lab ID: 5098388023** Collected: 05/27/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:57	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-38-2	
Barium	**132**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:57	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:57	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:57	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:32	7440-28-0	
Zinc	**26.1**	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:57	7440-66-6	1d
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:42	7439-97-6	CU
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 10:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 10:51	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 10:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	51	%.	21-114	1	05/28/14 14:51	05/30/14 10:51	321-60-8	
p-Terphenyl-d14 (S)	82	%.	25-131	1	05/28/14 14:51	05/30/14 10:51	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 06:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 06:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 06:27	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 06:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 06:27	108-86-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-24 **Lab ID: 5098388023** Collected: 05/27/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 06:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 06:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 06:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 06:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 06:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 06:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 06:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 06:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 06:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 06:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 06:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 06:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 06:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 06:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 06:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 06:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 06:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 06:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 06:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 06:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 06:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 06:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 06:27	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 06:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 06:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 06:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 06:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 06:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 06:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 06:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 06:27	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-24 **Lab ID: 5098388023** Collected: 05/27/14 10:25 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 06:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 06:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 06:27	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 06:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 06:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 06:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 06:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 06:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 06:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 06:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 06:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 06:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 06:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	79-116	1		06/06/14 06:27	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/06/14 06:27	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		06/06/14 06:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 **Lab ID: 5098388024** Collected: 05/27/14 11:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	ND	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:55	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:55	7440-41-7	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:55	7440-47-3	
Lead, Dissolved	**2.3**	ug/L	1.0	1	08/01/14 11:56	08/06/14 15:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-7 **Lab ID: 5098388025** Collected: 05/27/14 11:40 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 08:59	7440-36-0	
Arsenic	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-38-2	
Barium	**74.0**	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-39-3	
Beryllium	ND	ug/L	4.0	1	05/29/14 07:09	06/03/14 08:59	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 08:59	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-47-3	
Copper	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-50-8	
Lead	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7439-92-1	
Nickel	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 08:59	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:34	7440-28-0	
Zinc	ND	ug/L	20.0	1	05/29/14 07:09	06/03/14 08:59	7440-66-6	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 3005A							
Arsenic, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:21	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:21	7440-41-7	
Chromium, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:21	7440-47-3	
Lead, Dissolved	ND	ug/L	1.0	1	06/18/14 13:11	06/19/14 11:21	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:44	7439-97-6	CU
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/28/14 14:51	05/30/14 11:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/28/14 14:51	05/30/14 11:09	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/28/14 14:51	05/30/14 11:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	21-114	1	05/28/14 14:51	05/30/14 11:09	321-60-8	
p-Terphenyl-d14 (S)	74	%.	25-131	1	05/28/14 14:51	05/30/14 11:09	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-7 **Lab ID: 5098388025** Collected: 05/27/14 11:40 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/06/14 04:14	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/06/14 04:14	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/06/14 04:14	107-13-1	
Benzene	ND	ug/L	5.0	1		06/06/14 04:14	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/06/14 04:14	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/06/14 04:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/06/14 04:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/06/14 04:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/06/14 04:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/06/14 04:14	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/06/14 04:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/06/14 04:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/06/14 04:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/06/14 04:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/06/14 04:14	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 04:14	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/06/14 04:14	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/06/14 04:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/06/14 04:14	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/06/14 04:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/06/14 04:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/06/14 04:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/06/14 04:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/06/14 04:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/06/14 04:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 04:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/06/14 04:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 04:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/06/14 04:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/06/14 04:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/06/14 04:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 04:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/06/14 04:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/06/14 04:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/06/14 04:14	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/06/14 04:14	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/06/14 04:14	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/06/14 04:14	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/06/14 04:14	98-82-8	

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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-7 **Lab ID: 5098388025** Collected: 05/27/14 11:40 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/06/14 04:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/06/14 04:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/06/14 04:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/06/14 04:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/06/14 04:14	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	103-65-1	
Styrene	ND	ug/L	5.0	1		06/06/14 04:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 04:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/06/14 04:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/06/14 04:14	127-18-4	
Toluene	ND	ug/L	5.0	1		06/06/14 04:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/06/14 04:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/06/14 04:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/06/14 04:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/06/14 04:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/06/14 04:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/06/14 04:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/06/14 04:14	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/06/14 04:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/06/14 04:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/06/14 04:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	79-116	1		06/06/14 04:14	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/06/14 04:14	460-00-4	
Toluene-d8 (S)	103	%.	81-110	1		06/06/14 04:14	2037-26-5	
7196 Chromium, Hex. Preserved	Analytical Method: EPA 7196							
Chromium, Hexavalent	ND	mg/L	0.010	1		06/16/14 13:11	18540-29-9	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: SB-GW-3 **Lab ID: 5098388026** Collected: 05/26/14 17:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	05/29/14 07:09	06/03/14 09:01	7440-36-0	
Arsenic	**38.8**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-38-2	
Barium	**1070**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-39-3	
Beryllium	**6.3**	ug/L	4.0	1	05/29/14 07:09	06/03/14 09:01	7440-41-7	
Cadmium	ND	ug/L	2.0	1	05/29/14 07:09	06/03/14 09:01	7440-43-9	
Chromium	**110**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-47-3	
Copper	**52.2**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-50-8	
Lead	**64.8**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7439-92-1	
Nickel	**94.6**	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-02-0	
Selenium	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7782-49-2	
Silver	ND	ug/L	10.0	1	05/29/14 07:09	06/03/14 09:01	7440-22-4	
Thallium	ND	ug/L	2.0	1	06/04/14 14:51	06/05/14 12:36	7440-28-0	
Zinc	**232**	ug/L	20.0	1	05/29/14 07:09	06/03/14 09:01	7440-66-6	1d,P2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	2.0	1	06/02/14 10:40	06/03/14 13:46	7439-97-6	CU

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: TB - WATER **Lab ID: 5098388027** Collected: 05/22/14 08:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/05/14 19:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/05/14 19:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/05/14 19:27	107-13-1	
Benzene	ND	ug/L	5.0	1		06/05/14 19:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/05/14 19:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/05/14 19:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/05/14 19:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/05/14 19:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/05/14 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/05/14 19:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/05/14 19:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/05/14 19:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/05/14 19:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/05/14 19:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/05/14 19:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/05/14 19:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/05/14 19:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/05/14 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/05/14 19:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/05/14 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/05/14 19:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/05/14 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/05/14 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/05/14 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/05/14 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/14 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/14 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/05/14 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/05/14 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/05/14 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/05/14 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/14 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/14 19:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/05/14 19:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/05/14 19:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/05/14 19:27	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/05/14 19:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/05/14 19:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/05/14 19:27	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: TB - WATER **Lab ID: 5098388027** Collected: 05/22/14 08:00 Received: 05/27/14 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/05/14 19:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/05/14 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/05/14 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/05/14 19:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/05/14 19:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	103-65-1	
Styrene	ND	ug/L	5.0	1		06/05/14 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/14 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/14 19:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/05/14 19:27	127-18-4	
Toluene	ND	ug/L	5.0	1		06/05/14 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/05/14 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/05/14 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/05/14 19:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/05/14 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/05/14 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/05/14 19:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/05/14 19:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/05/14 19:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/05/14 19:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/05/14 19:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	79-116	1		06/05/14 19:27	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/05/14 19:27	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/05/14 19:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: TB - SOIL **Lab ID: 5098388028** Collected: 05/22/14 08:00 Received: 05/27/14 16:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		06/05/14 18:17	67-64-1	
Acrolein	ND	mg/kg	0.10	1		06/05/14 18:17	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		06/05/14 18:17	107-13-1	
Benzene	ND	mg/kg	0.0050	1		06/05/14 18:17	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		06/05/14 18:17	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		06/05/14 18:17	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		06/05/14 18:17	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		06/05/14 18:17	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		06/05/14 18:17	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		06/05/14 18:17	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		06/05/14 18:17	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		06/05/14 18:17	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		06/05/14 18:17	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		06/05/14 18:17	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		06/05/14 18:17	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		06/05/14 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/05/14 18:17	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		06/05/14 18:17	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		06/05/14 18:17	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		06/05/14 18:17	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		06/05/14 18:17	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		06/05/14 18:17	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/05/14 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		06/05/14 18:17	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		06/05/14 18:17	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		06/05/14 18:17	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		06/05/14 18:17	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		06/05/14 18:17	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		06/05/14 18:17	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Sample: TB - SOIL **Lab ID: 5098388028** Collected: 05/22/14 08:00 Received: 05/27/14 16:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		06/05/14 18:17	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		06/05/14 18:17	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		06/05/14 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		06/05/14 18:17	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		06/05/14 18:17	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		06/05/14 18:17	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	103-65-1	
Styrene	ND	mg/kg	0.0050	1		06/05/14 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		06/05/14 18:17	127-18-4	
Toluene	ND	mg/kg	0.0050	1		06/05/14 18:17	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		06/05/14 18:17	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		06/05/14 18:17	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		06/05/14 18:17	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		06/05/14 18:17	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		06/05/14 18:17	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		06/05/14 18:17	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		06/05/14 18:17	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		06/05/14 18:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	85-118	1		06/05/14 18:17	1868-53-7	
Toluene-d8 (S)	96	%.	71-128	1		06/05/14 18:17	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	56-144	1		06/05/14 18:17	460-00-4	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MERP/5444 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

METHOD BLANK: 1103833 Matrix: Water
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/03/14 12:44	

LABORATORY CONTROL SAMPLE: 1103834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.9	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103835 1103836

Parameter	Units	5098388006 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	5.3	4.9	105	98	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MPRP/13464 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

METHOD BLANK: 1101744 — Matrix: Water
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/03/14 08:15	
Arsenic	ug/L	ND	10.0	06/03/14 08:15	
Barium	ug/L	ND	10.0	06/03/14 08:15	
Beryllium	ug/L	ND	4.0	06/03/14 08:15	
Cadmium	ug/L	ND	2.0	06/03/14 08:15	
Chromium	ug/L	ND	10.0	06/03/14 08:15	
Copper	ug/L	ND	10.0	06/03/14 08:15	
Lead	ug/L	ND	10.0	06/03/14 08:15	
Nickel	ug/L	ND	10.0	06/03/14 08:15	
Selenium	ug/L	ND	10.0	06/03/14 08:15	
Silver	ug/L	ND	10.0	06/03/14 08:15	
Zinc	ug/L	59.9	20.0	06/03/14 08:15	2d

LABORATORY CONTROL SAMPLE: 1101745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	1040	104	80-120	
Arsenic	ug/L	1000	1020	102	80-120	
Barium	ug/L	1000	1030	103	80-120	
Beryllium	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	995	100	80-120	
Chromium	ug/L	1000	1000	100	80-120	
Copper	ug/L	1000	1020	102	80-120	
Lead	ug/L	1000	1010	101	80-120	
Nickel	ug/L	1000	999	100	80-120	
Selenium	ug/L	1000	992	99	80-120	
Silver	ug/L	500	494	99	80-120	
Zinc	ug/L	1000	1030	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101746 — 1101747

Parameter	Units	5098388006 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	892	898	89	90	75-125	1	20	
Arsenic	ug/L	27.1	1000	1000	1000	1010	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101746 1101747

Parameter	Units	5098388006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	1080	1000	1000	2040	2090	95	101	75-125	3	20	
Beryllium	ug/L	ND	1000	1000	965	976	96	97	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	970	983	97	98	75-125	1	20	
Chromium	ug/L	17.9	1000	1000	943	959	93	94	75-125	2	20	
Copper	ug/L	ND	1000	1000	964	975	96	97	75-125	1	20	
Lead	ug/L	22.8	1000	1000	971	980	95	96	75-125	1	20	
Nickel	ug/L	22.5	1000	1000	960	974	94	95	75-125	1	20	
Selenium	ug/L	ND	1000	1000	954	966	95	97	75-125	1	20	
Silver	ug/L	ND	500	500	465	472	93	94	75-125	2	20	
Zinc	ug/L	67.0	1000	1000	986	1000	92	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MPRP/13517 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

METHOD BLANK: 1105275 Matrix: Water
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388020, 5098388021, 5098388022, 5098388023, 5098388025, 5098388026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Thallium	ug/L	ND	2.0	06/05/14 11:40	

LABORATORY CONTROL SAMPLE: 1105276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	ug/L	200	192	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1105277 1105278

Parameter	Units	5098388006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium	ug/L	ND	200	200	172	174	86	87	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MPRP/1359 — Analysis Method: EPA 6020
QC Batch Method: EPA 3005A — Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 5098388001, 5098388011, 5098388015, 5098388025

METHOD BLANK: 26971 — Matrix: Water
Associated Lab Samples: 5098388001, 5098388011, 5098388015, 5098388025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	06/19/14 10:44	
Beryllium, Dissolved	ug/L	ND	1.0	06/19/14 10:44	
Chromium, Dissolved	ug/L	ND	1.0	06/19/14 10:44	
Lead, Dissolved	ug/L	ND	1.0	06/19/14 10:44	

LABORATORY CONTROL SAMPLE: 26972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	20	19.9	99	80-120	
Beryllium, Dissolved	ug/L	20	19.6	98	80-120	
Chromium, Dissolved	ug/L	20	18.9	95	80-120	
Lead, Dissolved	ug/L	20	18.5	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26973 26974

Parameter	Units	5098388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	2.3	20	20	21.3	20.7	95	92	75-125	3	20	
Beryllium, Dissolved	ug/L	ND	20	20	17.5	16.9	87	84	75-125	3	20	
Chromium, Dissolved	ug/L	2.1	20	20	20.7	19.9	93	89	75-125	4	20	
Lead, Dissolved	ug/L	11.7	20	20	31.3	30.5	98	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MPRP/1557 — Analysis Method: EPA 6020
QC Batch Method: EPA 3005A — Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 5098388003, 5098388006, 5098388013, 5098388024

METHOD BLANK: 39500 — Matrix: Water
Associated Lab Samples: 5098388003, 5098388006, 5098388013, 5098388024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	08/06/14 14:35	
Beryllium, Dissolved	ug/L	ND	1.0	08/06/14 14:35	
Chromium, Dissolved	ug/L	ND	1.0	08/06/14 14:35	
Lead, Dissolved	ug/L	ND	1.0	08/06/14 14:35	

LABORATORY CONTROL SAMPLE: 39501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	20	20.1	100	80-120	
Beryllium, Dissolved	ug/L	20	20.8	104	80-120	
Chromium, Dissolved	ug/L	20	20.2	101	80-120	
Lead, Dissolved	ug/L	20	19.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39502 — 39503

Parameter	Units	5098388013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	20	20	19.5	19.2	94	93	75-125	2	20	
Beryllium, Dissolved	ug/L	ND	20	20	22.1	23.7	110	118	75-125	7	20	
Chromium, Dissolved	ug/L	1.2	20	20	20.8	20.7	98	98	75-125	.6	20	
Lead, Dissolved	ug/L	1.4	20	20	21.2	21.2	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MSV/65484 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5098388001, 5098388027

METHOD BLANK: 1106227 | Matrix: Water
Associated Lab Samples: 5098388001, 5098388027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,1-Dichloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,1-Dichloroethene	ug/L	ND	5.0	06/05/14 14:31	
1,1-Dichloropropene	ug/L	ND	5.0	06/05/14 14:31	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/05/14 14:31	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/05/14 14:31	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/05/14 14:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
1,2-Dichloroethane	ug/L	ND	5.0	06/05/14 14:31	
1,2-Dichloropropane	ug/L	ND	5.0	06/05/14 14:31	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/05/14 14:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
1,3-Dichloropropane	ug/L	ND	5.0	06/05/14 14:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
2,2-Dichloropropane	ug/L	ND	5.0	06/05/14 14:31	
2-Butanone (MEK)	ug/L	ND	25.0	06/05/14 14:31	
2-Chlorotoluene	ug/L	ND	5.0	06/05/14 14:31	
2-Hexanone	ug/L	ND	25.0	06/05/14 14:31	
4-Chlorotoluene	ug/L	ND	5.0	06/05/14 14:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/05/14 14:31	
Acetone	ug/L	ND	100	06/05/14 14:31	
Acrolein	ug/L	ND	50.0	06/05/14 14:31	
Acrylonitrile	ug/L	ND	100	06/05/14 14:31	
Benzene	ug/L	ND	5.0	06/05/14 14:31	
Bromobenzene	ug/L	ND	5.0	06/05/14 14:31	
Bromochloromethane	ug/L	ND	5.0	06/05/14 14:31	
Bromodichloromethane	ug/L	ND	5.0	06/05/14 14:31	
Bromoform	ug/L	ND	5.0	06/05/14 14:31	
Bromomethane	ug/L	ND	5.0	06/05/14 14:31	
Carbon disulfide	ug/L	ND	10.0	06/05/14 14:31	
Carbon tetrachloride	ug/L	ND	5.0	06/05/14 14:31	
Chlorobenzene	ug/L	ND	5.0	06/05/14 14:31	
Chloroethane	ug/L	ND	5.0	06/05/14 14:31	
Chloroform	ug/L	ND	5.0	06/05/14 14:31	
Chloromethane	ug/L	ND	5.0	06/05/14 14:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/05/14 14:31	

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(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

METHOD BLANK: 1106227 Matrix: Water
Associated Lab Samples: 5098388001, 5098388027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/05/14 14:31	
Dibromochloromethane	ug/L	ND	5.0	06/05/14 14:31	
Dibromomethane	ug/L	ND	5.0	06/05/14 14:31	
Dichlorodifluoromethane	ug/L	ND	5.0	06/05/14 14:31	
Ethyl methacrylate	ug/L	ND	100	06/05/14 14:31	
Ethylbenzene	ug/L	ND	5.0	06/05/14 14:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/05/14 14:31	
Iodomethane	ug/L	ND	10.0	06/05/14 14:31	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/05/14 14:31	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/05/14 14:31	
Methylene Chloride	ug/L	ND	5.0	06/05/14 14:31	
n-Butylbenzene	ug/L	ND	5.0	06/05/14 14:31	
n-Hexane	ug/L	ND	5.0	06/05/14 14:31	N2
n-Propylbenzene	ug/L	ND	5.0	06/05/14 14:31	
Naphthalene	ug/L	ND	5.0	06/05/14 14:31	
p-Isopropyltoluene	ug/L	ND	5.0	06/05/14 14:31	
sec-Butylbenzene	ug/L	ND	5.0	06/05/14 14:31	
Styrene	ug/L	ND	5.0	06/05/14 14:31	
tert-Butylbenzene	ug/L	ND	5.0	06/05/14 14:31	
Tetrachloroethene	ug/L	ND	5.0	06/05/14 14:31	
Toluene	ug/L	ND	5.0	06/05/14 14:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/05/14 14:31	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/05/14 14:31	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/05/14 14:31	
Trichloroethene	ug/L	ND	5.0	06/05/14 14:31	
Trichlorofluoromethane	ug/L	ND	5.0	06/05/14 14:31	
Vinyl acetate	ug/L	ND	50.0	06/05/14 14:31	
Vinyl chloride	ug/L	ND	2.0	06/05/14 14:31	
Xylene (Total)	ug/L	ND	10.0	06/05/14 14:31	
4-Bromofluorobenzene (S)	%.	98	80-114	06/05/14 14:31	
Dibromofluoromethane (S)	%.	105	79-116	06/05/14 14:31	
Toluene-d8 (S)	%.	100	81-110	06/05/14 14:31	

LABORATORY CONTROL SAMPLE: 1106228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.1	94	61-135	
1,1,1-Trichloroethane	ug/L	50	55.3	111	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.1	112	66-126	
1,1,2-Trichloroethane	ug/L	50	51.8	104	77-130	
1,1-Dichloroethane	ug/L	50	51.3	103	75-130	
1,1-Dichloroethene	ug/L	50	65.6	131	68-127	L3
1,1-Dichloropropene	ug/L	50	50.4	101	78-130	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	50.8	102	58-142	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	68-131	
1,2,4-Trimethylbenzene	ug/L	50	53.4	107	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	76-125	
1,2-Dichlorobenzene	ug/L	50	52.3	105	75-123	
1,2-Dichloroethane	ug/L	50	50.0	100	75-128	
1,2-Dichloropropane	ug/L	50	50.0	100	74-121	
1,3,5-Trimethylbenzene	ug/L	50	53.1	106	70-126	
1,3-Dichlorobenzene	ug/L	50	51.3	103	74-122	
1,3-Dichloropropane	ug/L	50	51.3	103	74-123	
1,4-Dichlorobenzene	ug/L	50	50.8	102	76-120	
2,2-Dichloropropane	ug/L	50	46.2	92	50-137	
2-Butanone (MEK)	ug/L	250	274	110	58-139	
2-Chlorotoluene	ug/L	50	53.0	106	74-122	
2-Hexanone	ug/L	250	254	102	54-140	
4-Chlorotoluene	ug/L	50	52.1	104	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	262	105	58-138	
Acetone	ug/L	250	345	138	49-150	
Acrolein	ug/L	1000	1270	127	41-200	
Acrylonitrile	ug/L	1000	1010	101	63-137	
Benzene	ug/L	50	50.8	102	74-122	
Bromobenzene	ug/L	50	51.6	103	72-127	
Bromochloromethane	ug/L	50	61.3	123	63-132	
Bromodichloromethane	ug/L	50	47.7	95	62-136	
Bromoform	ug/L	50	62.2	124	44-134	
Bromomethane	ug/L	50	84.2	168	22-181	
Carbon disulfide	ug/L	100	103	103	59-132	
Carbon tetrachloride	ug/L	50	52.2	104	56-137	
Chlorobenzene	ug/L	50	51.7	103	78-123	
Chloroethane	ug/L	50	55.6	111	60-144	
Chloroform	ug/L	50	50.4	101	78-126	
Chloromethane	ug/L	50	64.6	129	42-134	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	75-122	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	64-126	
Dibromochloromethane	ug/L	50	41.6	83	58-128	
Dibromomethane	ug/L	50	45.8	92	73-125	
Dichlorodifluoromethane	ug/L	50	56.4	113	35-181	
Ethyl methacrylate	ug/L	200	211	105	69-133	
Ethylbenzene	ug/L	50	50.7	101	66-133	
Hexachloro-1,3-butadiene	ug/L	50	48.1	96	59-145	
Iodomethane	ug/L	100	124	124	21-170	
Isopropylbenzene (Cumene)	ug/L	50	55.3	111	69-124	
Methyl-tert-butyl ether	ug/L	100	98.9	99	69-122	
Methylene Chloride	ug/L	50	62.1	124	68-132	
n-Butylbenzene	ug/L	50	53.7	107	70-126	
n-Hexane	ug/L	50	50.4	101	51-125	N2
n-Propylbenzene	ug/L	50	54.9	110	71-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	51.4	103	68-127	
p-Isopropyltoluene	ug/L	50	52.6	105	72-132	
sec-Butylbenzene	ug/L	50	54.5	109	70-128	
Styrene	ug/L	50	54.0	108	74-126	
tert-Butylbenzene	ug/L	50	48.8	98	51-118	
Tetrachloroethene	ug/L	50	50.0	100	69-130	
Toluene	ug/L	50	50.5	101	72-122	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	72-124	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	230	115	56-133	
Trichloroethene	ug/L	50	45.7	91	76-126	
Trichlorofluoromethane	ug/L	50	55.2	110	76-149	
Vinyl acetate	ug/L	200	230	115	45-151	
Vinyl chloride	ug/L	50	52.4	105	59-126	
Xylene (Total)	ug/L	150	160	106	70-124	
4-Bromofluorobenzene (S)	%.			102	80-114	
Dibromofluoromethane (S)	%.			103	79-116	
Toluene-d8 (S)	%.			99	81-110	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MSV/65486 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388010, 5098388011, 5098388012, 5098388013

METHOD BLANK: 1106248 Matrix: Water
Associated Lab Samples: 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388010, 5098388011, 5098388012, 5098388013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,1-Dichloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,1-Dichloroethene	ug/L	ND	5.0	06/06/14 02:19	
1,1-Dichloropropene	ug/L	ND	5.0	06/06/14 02:19	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/06/14 02:19	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/06/14 02:19	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/06/14 02:19	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
1,2-Dichloroethane	ug/L	ND	5.0	06/06/14 02:19	
1,2-Dichloropropane	ug/L	ND	5.0	06/06/14 02:19	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/06/14 02:19	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
1,3-Dichloropropane	ug/L	ND	5.0	06/06/14 02:19	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
2,2-Dichloropropane	ug/L	ND	5.0	06/06/14 02:19	
2-Butanone (MEK)	ug/L	ND	25.0	06/06/14 02:19	
2-Chlorotoluene	ug/L	ND	5.0	06/06/14 02:19	
2-Hexanone	ug/L	ND	25.0	06/06/14 02:19	
4-Chlorotoluene	ug/L	ND	5.0	06/06/14 02:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/06/14 02:19	
Acetone	ug/L	ND	100	06/06/14 02:19	
Acrolein	ug/L	ND	50.0	06/06/14 02:19	
Acrylonitrile	ug/L	ND	100	06/06/14 02:19	
Benzene	ug/L	ND	5.0	06/06/14 02:19	
Bromobenzene	ug/L	ND	5.0	06/06/14 02:19	
Bromochloromethane	ug/L	ND	5.0	06/06/14 02:19	
Bromodichloromethane	ug/L	ND	5.0	06/06/14 02:19	
Bromoform	ug/L	ND	5.0	06/06/14 02:19	
Bromomethane	ug/L	ND	5.0	06/06/14 02:19	
Carbon disulfide	ug/L	ND	10.0	06/06/14 02:19	
Carbon tetrachloride	ug/L	ND	5.0	06/06/14 02:19	
Chlorobenzene	ug/L	ND	5.0	06/06/14 02:19	
Chloroethane	ug/L	ND	5.0	06/06/14 02:19	
Chloroform	ug/L	ND	5.0	06/06/14 02:19	
Chloromethane	ug/L	ND	5.0	06/06/14 02:19	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

METHOD BLANK: 1106248 Matrix: Water

Associated Lab Samples: 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388010, 5098388011, 5098388012, 5098388013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 02:19	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 02:19	
Dibromochloromethane	ug/L	ND	5.0	06/06/14 02:19	
Dibromomethane	ug/L	ND	5.0	06/06/14 02:19	
Dichlorodifluoromethane	ug/L	ND	5.0	06/06/14 02:19	
Ethyl methacrylate	ug/L	ND	100	06/06/14 02:19	
Ethylbenzene	ug/L	ND	5.0	06/06/14 02:19	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 02:19	
Iodomethane	ug/L	ND	10.0	06/06/14 02:19	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/06/14 02:19	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/06/14 02:19	
Methylene Chloride	ug/L	ND	5.0	06/06/14 02:19	
n-Butylbenzene	ug/L	ND	5.0	06/06/14 02:19	
n-Hexane	ug/L	ND	5.0	06/06/14 02:19	N2
n-Propylbenzene	ug/L	ND	5.0	06/06/14 02:19	
Naphthalene	ug/L	ND	5.0	06/06/14 02:19	
p-Isopropyltoluene	ug/L	ND	5.0	06/06/14 02:19	
sec-Butylbenzene	ug/L	ND	5.0	06/06/14 02:19	
Styrene	ug/L	ND	5.0	06/06/14 02:19	
tert-Butylbenzene	ug/L	ND	5.0	06/06/14 02:19	
Tetrachloroethene	ug/L	ND	5.0	06/06/14 02:19	
Toluene	ug/L	ND	5.0	06/06/14 02:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 02:19	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 02:19	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/06/14 02:19	
Trichloroethene	ug/L	ND	5.0	06/06/14 02:19	
Trichlorofluoromethane	ug/L	ND	5.0	06/06/14 02:19	
Vinyl acetate	ug/L	ND	50.0	06/06/14 02:19	
Vinyl chloride	ug/L	ND	2.0	06/06/14 02:19	
Xylene (Total)	ug/L	ND	10.0	06/06/14 02:19	
4-Bromofluorobenzene (S)	%.	97	80-114	06/06/14 02:19	
Dibromofluoromethane (S)	%.	97	79-116	06/06/14 02:19	
Toluene-d8 (S)	%.	101	81-110	06/06/14 02:19	

LABORATORY CONTROL SAMPLE: 1106249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.8	92	61-135	
1,1,1-Trichloroethane	ug/L	50	51.0	102	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	66-126	
1,1,2-Trichloroethane	ug/L	50	50.4	101	77-130	
1,1-Dichloroethane	ug/L	50	54.0	108	75-130	
1,1-Dichloroethene	ug/L	50	50.2	100	68-127	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	50	50.3	101	78-130	
1,2,3-Trichlorobenzene	ug/L	50	47.6	95	70-130	
1,2,3-Trichloropropane	ug/L	50	48.5	97	58-142	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	68-131	
1,2,4-Trimethylbenzene	ug/L	50	52.4	105	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	76-125	
1,2-Dichlorobenzene	ug/L	50	51.2	102	75-123	
1,2-Dichloroethane	ug/L	50	53.9	108	75-128	
1,2-Dichloropropane	ug/L	50	49.7	99	74-121	
1,3,5-Trimethylbenzene	ug/L	50	50.5	101	70-126	
1,3-Dichlorobenzene	ug/L	50	50.0	100	74-122	
1,3-Dichloropropane	ug/L	50	51.6	103	74-123	
1,4-Dichlorobenzene	ug/L	50	49.8	100	76-120	
2,2-Dichloropropane	ug/L	50	37.3	75	50-137	
2-Butanone (MEK)	ug/L	250	241	97	58-139	
2-Chlorotoluene	ug/L	50	50.8	102	74-122	
2-Hexanone	ug/L	250	242	97	54-140	
4-Chlorotoluene	ug/L	50	51.1	102	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	256	102	58-138	
Acetone	ug/L	250	311	124	49-150	
Acrolein	ug/L	1000	1120	112	41-200	
Acrylonitrile	ug/L	1000	1140	114	63-137	
Benzene	ug/L	50	48.6	97	74-122	
Bromobenzene	ug/L	50	50.4	101	72-127	
Bromochloromethane	ug/L	50	49.3	99	63-132	
Bromodichloromethane	ug/L	50	61.2	122	62-136	
Bromoform	ug/L	50	46.5	93	44-134	
Bromomethane	ug/L	50	89.2	178	22-181	
Carbon disulfide	ug/L	100	106	106	59-132	
Carbon tetrachloride	ug/L	50	46.0	92	56-137	
Chlorobenzene	ug/L	50	51.6	103	78-123	
Chloroethane	ug/L	50	49.5	99	60-144	
Chloroform	ug/L	50	49.8	100	78-126	
Chloromethane	ug/L	50	62.0	124	42-134	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	75-122	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	64-126	
Dibromochloromethane	ug/L	50	41.4	83	58-128	
Dibromomethane	ug/L	50	47.1	94	73-125	
Dichlorodifluoromethane	ug/L	50	59.6	119	35-181	
Ethyl methacrylate	ug/L	200	204	102	69-133	
Ethylbenzene	ug/L	50	48.2	96	66-133	
Hexachloro-1,3-butadiene	ug/L	50	44.1	88	59-145	
Iodomethane	ug/L	100	133	133	21-170	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	69-124	
Methyl-tert-butyl ether	ug/L	100	104	104	69-122	
Methylene Chloride	ug/L	50	61.0	122	68-132	
n-Butylbenzene	ug/L	50	52.5	105	70-126	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Hexane	ug/L	50	49.4	99	51-125	N2
n-Propylbenzene	ug/L	50	52.4	105	71-122	
Naphthalene	ug/L	50	47.1	94	68-127	
p-Isopropyltoluene	ug/L	50	51.0	102	72-132	
sec-Butylbenzene	ug/L	50	51.8	104	70-128	
Styrene	ug/L	50	51.4	103	74-126	
tert-Butylbenzene	ug/L	50	46.9	94	51-118	
Tetrachloroethene	ug/L	50	48.7	97	69-130	
Toluene	ug/L	50	48.6	97	72-122	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	72-124	
trans-1,3-Dichloropropene	ug/L	50	48.2	96	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	199	100	56-133	
Trichloroethene	ug/L	50	46.7	93	76-126	
Trichlorofluoromethane	ug/L	50	62.3	125	76-149	
Vinyl acetate	ug/L	200	212	106	45-151	
Vinyl chloride	ug/L	50	56.0	112	59-126	
Xylene (Total)	ug/L	150	156	104	70-124	
4-Bromofluorobenzene (S)	%.			103	80-114	
Dibromofluoromethane (S)	%.			104	79-116	
Toluene-d8 (S)	%.			101	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106250 1106251

Parameter	Units	5098388006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	38.1	43.3	76	87	50-132	13	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	47.4	51.2	95	102	60-138	8	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.0	50.6	96	101	55-128	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.6	48.4	91	97	61-139	6	20	
1,1-Dichloroethane	ug/L	ND	50	50	58.1	56.9	116	114	57-147	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.0	53.9	110	108	55-145	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	51.8	51.2	104	102	55-147	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	41.2	40.7	82	81	31-141	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	46.5	47.9	93	96	58-133	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	40.2	39.5	80	79	25-143	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.1	49.3	100	99	18-149	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	47.7	49.6	95	99	63-129	4	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.4	48.3	99	97	38-136	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	54.5	53.7	109	107	62-138	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.0	49.9	98	100	59-130	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	49.3	48.0	99	96	20-147	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.8	46.9	96	94	28-141	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	48.9	50.9	98	102	62-127	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	46.3	46.4	93	93	30-139	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	30.1	32.0	60	64	37-139	6	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106250 1106251

Parameter	Units	5098388006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	250	250	250	254	100	102	37-156	2	20	
2-Chlorotoluene	ug/L	ND	50	50	48.9	48.0	98	96	27-142	2	20	
2-Hexanone	ug/L	ND	250	250	235	240	94	96	44-143	2	20	
4-Chlorotoluene	ug/L	ND	50	50	49.5	48.0	99	96	27-144	3	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	251	259	100	104	46-144	3	20	
Acetone	ug/L	ND	250	250	340	334	136	133	39-156	2	20	
Acrolein	ug/L	ND	1000	1000	1040	1010	104	101	33-200	3	20	
Acrylonitrile	ug/L	ND	1000	1000	1110	1180	111	118	48-149	6	20	
Benzene	ug/L	ND	50	50	50.3	49.7	101	99	62-129	1	20	
Bromobenzene	ug/L	ND	50	50	47.5	48.1	95	96	39-140	1	20	
Bromochloromethane	ug/L	ND	50	50	51.0	51.4	102	103	49-142	1	20	
Bromodichloromethane	ug/L	ND	50	50	53.1	60.8	106	122	50-142	14	20	
Bromoform	ug/L	ND	50	50	37.3	44.8	75	90	36-125	18	20	
Bromomethane	ug/L	ND	50	50	71.3	84.7	143	169	13-179	17	20	
Carbon disulfide	ug/L	ND	100	100	113	112	113	112	45-142	0	20	
Carbon tetrachloride	ug/L	ND	50	50	39.2	44.8	78	90	46-142	13	20	
Chlorobenzene	ug/L	ND	50	50	52.3	52.5	98	99	49-136	0	20	
Chloroethane	ug/L	ND	50	50	52.8	53.5	106	107	47-160	1	20	
Chloroform	ug/L	ND	50	50	49.6	49.2	99	98	54-150	1	20	
Chloromethane	ug/L	ND	50	50	63.1	63.6	126	127	30-148	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.2	48.8	96	98	60-135	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	39.7	43.5	79	87	52-123	9	20	
Dibromochloromethane	ug/L	ND	50	50	33.7	39.9	67	80	48-125	17	20	
Dibromomethane	ug/L	ND	50	50	45.6	47.6	91	95	59-134	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	63.6	61.9	127	124	24-197	3	20	
Ethyl methacrylate	ug/L	ND	200	200	189	197	95	99	55-139	4	20	
Ethylbenzene	ug/L	ND	50	50	47.5	47.3	95	95	28-153	1	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.4	34.7	73	69	10-176	5	20	
Iodomethane	ug/L	ND	100	100	131	141	131	141	17-157	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	53.3	51.6	107	103	18-152	3	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	107	110	107	110	63-130	3	20	
Methylene Chloride	ug/L	ND	50	50	62.6	61.7	125	123	45-156	1	20	
n-Butylbenzene	ug/L	ND	50	50	47.6	46.2	95	92	10-161	3	20	
n-Hexane	ug/L	ND	50	50	47.6	44.2	95	88	33-144	7	20	N2
n-Propylbenzene	ug/L	ND	50	50	50.9	49.1	102	98	16-150	4	20	
Naphthalene	ug/L	ND	50	50	42.1	41.7	84	83	39-140	1	20	
p-Isopropyltoluene	ug/L	ND	50	50	49.1	48.2	96	94	10-163	2	20	
sec-Butylbenzene	ug/L	ND	50	50	48.9	46.8	98	94	10-160	4	20	
Styrene	ug/L	ND	50	50	46.7	45.2	93	90	36-139	3	20	
tert-Butylbenzene	ug/L	ND	50	50	44.7	44.1	89	88	12-134	1	20	
Tetrachloroethene	ug/L	ND	50	50	47.8	46.4	96	93	33-151	3	20	
Toluene	ug/L	ND	50	50	47.3	47.8	95	96	50-132	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.7	52.6	107	105	40-153	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	38.8	43.3	78	87	48-122	11	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	173	180	86	90	32-139	4	20	
Trichloroethene	ug/L	ND	50	50	47.2	46.8	94	94	50-143	1	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106250 1106251

Parameter	Units	5098388006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	ND	50	50	69.5	68.4	139	137	60-175	2	20	
Vinyl acetate	ug/L	ND	200	200	163	154	81	77	17-142	6	20	
Vinyl chloride	ug/L	ND	50	50	59.9	61.7	120	123	44-145	3	20	
Xylene (Total)	ug/L	ND	150	150	152	150	102	100	29-145	1	20	
4-Bromofluorobenzene (S)	%.						101	99	80-114			
Dibromofluoromethane (S)	%.						104	105	79-116			
Toluene-d8 (S)	%.						99	100	81-110			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MSV/65487 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5098388014, 5098388015, 5098388020, 5098388022, 5098388023, 5098388025

METHOD BLANK: 1106254 Matrix: Water
Associated Lab Samples: 5098388014, 5098388015, 5098388020, 5098388022, 5098388023, 5098388025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,1-Dichloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,1-Dichloroethene	ug/L	ND	5.0	06/06/14 02:35	
1,1-Dichloropropene	ug/L	ND	5.0	06/06/14 02:35	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/06/14 02:35	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/06/14 02:35	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/06/14 02:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
1,2-Dichloroethane	ug/L	ND	5.0	06/06/14 02:35	
1,2-Dichloropropane	ug/L	ND	5.0	06/06/14 02:35	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/06/14 02:35	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
1,3-Dichloropropane	ug/L	ND	5.0	06/06/14 02:35	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
2,2-Dichloropropane	ug/L	ND	5.0	06/06/14 02:35	
2-Butanone (MEK)	ug/L	ND	25.0	06/06/14 02:35	
2-Chlorotoluene	ug/L	ND	5.0	06/06/14 02:35	
2-Hexanone	ug/L	ND	25.0	06/06/14 02:35	
4-Chlorotoluene	ug/L	ND	5.0	06/06/14 02:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/06/14 02:35	
Acetone	ug/L	ND	100	06/06/14 02:35	
Acrolein	ug/L	ND	50.0	06/06/14 02:35	
Acrylonitrile	ug/L	ND	100	06/06/14 02:35	
Benzene	ug/L	ND	5.0	06/06/14 02:35	
Bromobenzene	ug/L	ND	5.0	06/06/14 02:35	
Bromochloromethane	ug/L	ND	5.0	06/06/14 02:35	
Bromodichloromethane	ug/L	ND	5.0	06/06/14 02:35	
Bromoform	ug/L	ND	5.0	06/06/14 02:35	
Bromomethane	ug/L	ND	5.0	06/06/14 02:35	
Carbon disulfide	ug/L	ND	10.0	06/06/14 02:35	
Carbon tetrachloride	ug/L	ND	5.0	06/06/14 02:35	
Chlorobenzene	ug/L	ND	5.0	06/06/14 02:35	
Chloroethane	ug/L	ND	5.0	06/06/14 02:35	
Chloroform	ug/L	ND	5.0	06/06/14 02:35	
Chloromethane	ug/L	ND	5.0	06/06/14 02:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 02:35	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

METHOD BLANK: 1106254 Matrix: Water
Associated Lab Samples: 5098388014, 5098388015, 5098388020, 5098388022, 5098388023, 5098388025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 02:35	
Dibromochloromethane	ug/L	ND	5.0	06/06/14 02:35	
Dibromomethane	ug/L	ND	5.0	06/06/14 02:35	
Dichlorodifluoromethane	ug/L	ND	5.0	06/06/14 02:35	
Ethyl methacrylate	ug/L	ND	100	06/06/14 02:35	
Ethylbenzene	ug/L	ND	5.0	06/06/14 02:35	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 02:35	
Iodomethane	ug/L	ND	10.0	06/06/14 02:35	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/06/14 02:35	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/06/14 02:35	
Methylene Chloride	ug/L	ND	5.0	06/06/14 02:35	
n-Butylbenzene	ug/L	ND	5.0	06/06/14 02:35	
n-Hexane	ug/L	ND	5.0	06/06/14 02:35	N2
n-Propylbenzene	ug/L	ND	5.0	06/06/14 02:35	
Naphthalene	ug/L	ND	5.0	06/06/14 02:35	
p-Isopropyltoluene	ug/L	ND	5.0	06/06/14 02:35	
sec-Butylbenzene	ug/L	ND	5.0	06/06/14 02:35	
Styrene	ug/L	ND	5.0	06/06/14 02:35	
tert-Butylbenzene	ug/L	ND	5.0	06/06/14 02:35	
Tetrachloroethene	ug/L	ND	5.0	06/06/14 02:35	
Toluene	ug/L	ND	5.0	06/06/14 02:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 02:35	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 02:35	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/06/14 02:35	
Trichloroethene	ug/L	ND	5.0	06/06/14 02:35	
Trichlorofluoromethane	ug/L	ND	5.0	06/06/14 02:35	
Vinyl acetate	ug/L	ND	50.0	06/06/14 02:35	
Vinyl chloride	ug/L	ND	2.0	06/06/14 02:35	
Xylene (Total)	ug/L	ND	10.0	06/06/14 02:35	
4-Bromofluorobenzene (S)	%.	97	80-114	06/06/14 02:35	
Dibromofluoromethane (S)	%.	101	79-116	06/06/14 02:35	
Toluene-d8 (S)	%.	102	81-110	06/06/14 02:35	

LABORATORY CONTROL SAMPLE: 1106256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.6	91	61-135	
1,1,1-Trichloroethane	ug/L	50	52.9	106	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	66-126	
1,1,2-Trichloroethane	ug/L	50	48.5	97	77-130	
1,1-Dichloroethane	ug/L	50	52.6	105	75-130	
1,1-Dichloroethene	ug/L	50	65.7	131	68-127	L3
1,1-Dichloropropene	ug/L	50	48.5	97	78-130	
1,2,3-Trichlorobenzene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	48.2	96	58-142	
1,2,4-Trichlorobenzene	ug/L	50	44.6	89	68-131	
1,2,4-Trimethylbenzene	ug/L	50	49.8	100	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	76-125	
1,2-Dichlorobenzene	ug/L	50	49.8	100	75-123	
1,2-Dichloroethane	ug/L	50	51.6	103	75-128	
1,2-Dichloropropane	ug/L	50	49.6	99	74-121	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	70-126	
1,3-Dichlorobenzene	ug/L	50	48.5	97	74-122	
1,3-Dichloropropane	ug/L	50	50.4	101	74-123	
1,4-Dichlorobenzene	ug/L	50	47.9	96	76-120	
2,2-Dichloropropane	ug/L	50	33.6	67	50-137	
2-Butanone (MEK)	ug/L	250	249	100	58-139	
2-Chlorotoluene	ug/L	50	50.7	101	74-122	
2-Hexanone	ug/L	250	232	93	54-140	
4-Chlorotoluene	ug/L	50	50.7	101	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	239	95	58-138	
Acetone	ug/L	250	329	132	49-150	
Acrolein	ug/L	1000	1170	117	41-200	
Acrylonitrile	ug/L	1000	1040	104	63-137	
Benzene	ug/L	50	50.1	100	74-122	
Bromobenzene	ug/L	50	48.9	98	72-127	
Bromochloromethane	ug/L	50	59.1	118	63-132	
Bromodichloromethane	ug/L	50	46.0	92	62-136	
Bromoform	ug/L	50	55.0	110	44-134	
Bromomethane	ug/L	50	83.3	167	22-181	
Carbon disulfide	ug/L	100	102	102	59-132	
Carbon tetrachloride	ug/L	50	49.7	99	56-137	
Chlorobenzene	ug/L	50	50.4	101	78-123	
Chloroethane	ug/L	50	56.9	114	60-144	
Chloroform	ug/L	50	49.2	98	78-126	
Chloromethane	ug/L	50	66.4	133	42-134	
cis-1,2-Dichloroethene	ug/L	50	46.0	92	75-122	
cis-1,3-Dichloropropene	ug/L	50	47.8	96	64-126	
Dibromochloromethane	ug/L	50	39.6	79	58-128	
Dibromomethane	ug/L	50	45.8	92	73-125	
Dichlorodifluoromethane	ug/L	50	58.7	117	35-181	
Ethyl methacrylate	ug/L	200	199	99	69-133	
Ethylbenzene	ug/L	50	49.1	98	66-133	
Hexachloro-1,3-butadiene	ug/L	50	43.4	87	59-145	
Iodomethane	ug/L	100	130	130	21-170	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	69-124	
Methyl-tert-butyl ether	ug/L	100	96.9	97	69-122	
Methylene Chloride	ug/L	50	65.3	131	68-132	
n-Butylbenzene	ug/L	50	49.3	99	70-126	
n-Hexane	ug/L	50	42.3	85	51-125	N2
n-Propylbenzene	ug/L	50	52.5	105	71-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	46.7	93	68-127	
p-Isopropyltoluene	ug/L	50	49.5	99	72-132	
sec-Butylbenzene	ug/L	50	51.4	103	70-128	
Styrene	ug/L	50	52.5	105	74-126	
tert-Butylbenzene	ug/L	50	46.9	94	51-118	
Tetrachloroethene	ug/L	50	47.8	96	69-130	
Toluene	ug/L	50	49.2	98	72-122	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	72-124	
trans-1,3-Dichloropropene	ug/L	50	39.3	79	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	185	93	56-133	
Trichloroethene	ug/L	50	43.9	88	76-126	
Trichlorofluoromethane	ug/L	50	66.5	133	76-149	
Vinyl acetate	ug/L	200	232	116	45-151	
Vinyl chloride	ug/L	50	51.8	104	59-126	
Xylene (Total)	ug/L	150	152	102	70-124	
4-Bromofluorobenzene (S)	%.			101	80-114	
Dibromofluoromethane (S)	%.			105	79-116	
Toluene-d8 (S)	%.			100	81-110	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MSV/65511 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5098388017

METHOD BLANK: 1107066 | Matrix: Water
Associated Lab Samples: 5098388017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,1-Dichloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,1-Dichloroethene	ug/L	ND	5.0	06/06/14 15:03	
1,1-Dichloropropene	ug/L	ND	5.0	06/06/14 15:03	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/06/14 15:03	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/06/14 15:03	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/06/14 15:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
1,2-Dichloroethane	ug/L	ND	5.0	06/06/14 15:03	
1,2-Dichloropropane	ug/L	ND	5.0	06/06/14 15:03	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/06/14 15:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
1,3-Dichloropropane	ug/L	ND	5.0	06/06/14 15:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
2,2-Dichloropropane	ug/L	ND	5.0	06/06/14 15:03	
2-Butanone (MEK)	ug/L	ND	25.0	06/06/14 15:03	
2-Chlorotoluene	ug/L	ND	5.0	06/06/14 15:03	
2-Hexanone	ug/L	ND	25.0	06/06/14 15:03	
4-Chlorotoluene	ug/L	ND	5.0	06/06/14 15:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/06/14 15:03	
Acetone	ug/L	ND	100	06/06/14 15:03	
Acrolein	ug/L	ND	50.0	06/06/14 15:03	
Acrylonitrile	ug/L	ND	100	06/06/14 15:03	
Benzene	ug/L	ND	5.0	06/06/14 15:03	
Bromobenzene	ug/L	ND	5.0	06/06/14 15:03	
Bromochloromethane	ug/L	ND	5.0	06/06/14 15:03	
Bromodichloromethane	ug/L	ND	5.0	06/06/14 15:03	
Bromoform	ug/L	ND	5.0	06/06/14 15:03	
Bromomethane	ug/L	ND	5.0	06/06/14 15:03	
Carbon disulfide	ug/L	ND	10.0	06/06/14 15:03	
Carbon tetrachloride	ug/L	ND	5.0	06/06/14 15:03	
Chlorobenzene	ug/L	ND	5.0	06/06/14 15:03	
Chloroethane	ug/L	ND	5.0	06/06/14 15:03	
Chloroform	ug/L	ND	5.0	06/06/14 15:03	
Chloromethane	ug/L	ND	5.0	06/06/14 15:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 15:03	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

METHOD BLANK: 1107066 Matrix: Water
Associated Lab Samples: 5098388017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 15:03	
Dibromochloromethane	ug/L	ND	5.0	06/06/14 15:03	
Dibromomethane	ug/L	ND	5.0	06/06/14 15:03	
Dichlorodifluoromethane	ug/L	ND	5.0	06/06/14 15:03	
Ethyl methacrylate	ug/L	ND	100	06/06/14 15:03	
Ethylbenzene	ug/L	ND	5.0	06/06/14 15:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 15:03	
Iodomethane	ug/L	ND	10.0	06/06/14 15:03	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/06/14 15:03	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/06/14 15:03	
Methylene Chloride	ug/L	ND	5.0	06/06/14 15:03	
n-Butylbenzene	ug/L	ND	5.0	06/06/14 15:03	
n-Hexane	ug/L	ND	5.0	06/06/14 15:03	N2
n-Propylbenzene	ug/L	ND	5.0	06/06/14 15:03	
Naphthalene	ug/L	ND	5.0	06/06/14 15:03	
p-Isopropyltoluene	ug/L	ND	5.0	06/06/14 15:03	
sec-Butylbenzene	ug/L	ND	5.0	06/06/14 15:03	
Styrene	ug/L	ND	5.0	06/06/14 15:03	
tert-Butylbenzene	ug/L	ND	5.0	06/06/14 15:03	
Tetrachloroethene	ug/L	ND	5.0	06/06/14 15:03	
Toluene	ug/L	ND	5.0	06/06/14 15:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/06/14 15:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/06/14 15:03	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/06/14 15:03	
Trichloroethene	ug/L	ND	5.0	06/06/14 15:03	
Trichlorofluoromethane	ug/L	ND	5.0	06/06/14 15:03	
Vinyl acetate	ug/L	ND	50.0	06/06/14 15:03	
Vinyl chloride	ug/L	ND	2.0	06/06/14 15:03	
Xylene (Total)	ug/L	ND	10.0	06/06/14 15:03	
4-Bromofluorobenzene (S)	%.	95	80-114	06/06/14 15:03	
Dibromofluoromethane (S)	%.	99	79-116	06/06/14 15:03	
Toluene-d8 (S)	%.	102	81-110	06/06/14 15:03	

LABORATORY CONTROL SAMPLE: 1107067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.5	91	61-135	
1,1,1-Trichloroethane	ug/L	50	50.2	100	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	66-126	
1,1,2-Trichloroethane	ug/L	50	49.1	98	77-130	
1,1-Dichloroethane	ug/L	50	56.6	113	75-130	
1,1-Dichloroethene	ug/L	50	52.0	104	68-127	
1,1-Dichloropropene	ug/L	50	50.5	101	78-130	
1,2,3-Trichlorobenzene	ug/L	50	48.8	98	70-130	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1107067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	48.0	96	58-142	
1,2,4-Trichlorobenzene	ug/L	50	46.6	93	68-131	
1,2,4-Trimethylbenzene	ug/L	50	52.3	105	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	76-125	
1,2-Dichlorobenzene	ug/L	50	51.1	102	75-123	
1,2-Dichloroethane	ug/L	50	54.8	110	75-128	
1,2-Dichloropropane	ug/L	50	49.9	100	74-121	
1,3,5-Trimethylbenzene	ug/L	50	51.6	103	70-126	
1,3-Dichlorobenzene	ug/L	50	50.4	101	74-122	
1,3-Dichloropropane	ug/L	50	50.9	102	74-123	
1,4-Dichlorobenzene	ug/L	50	49.6	99	76-120	
2,2-Dichloropropane	ug/L	50	46.1	92	50-137	
2-Butanone (MEK)	ug/L	250	242	97	58-139	
2-Chlorotoluene	ug/L	50	50.3	101	74-122	
2-Hexanone	ug/L	250	251	100	54-140	
4-Chlorotoluene	ug/L	50	50.9	102	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	263	105	58-138	
Acetone	ug/L	250	343	137	49-150	
Acrolein	ug/L	1000	1130	113	41-200	
Acrylonitrile	ug/L	1000	1190	119	63-137	
Benzene	ug/L	50	49.4	99	74-122	
Bromobenzene	ug/L	50	49.5	99	72-127	
Bromochloromethane	ug/L	50	49.6	99	63-132	
Bromodichloromethane	ug/L	50	63.3	127	62-136	
Bromoform	ug/L	50	47.8	96	44-134	
Bromomethane	ug/L	50	87.2	174	22-181	
Carbon disulfide	ug/L	100	110	110	59-132	
Carbon tetrachloride	ug/L	50	46.6	93	56-137	
Chlorobenzene	ug/L	50	50.9	102	78-123	
Chloroethane	ug/L	50	50.5	101	60-144	
Chloroform	ug/L	50	50.0	100	78-126	
Chloromethane	ug/L	50	64.8	130	42-134	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	75-122	
cis-1,3-Dichloropropene	ug/L	50	47.7	95	64-126	
Dibromochloromethane	ug/L	50	42.0	84	58-128	
Dibromomethane	ug/L	50	46.3	93	73-125	
Dichlorodifluoromethane	ug/L	50	58.4	117	35-181	
Ethyl methacrylate	ug/L	200	204	102	69-133	
Ethylbenzene	ug/L	50	48.9	98	66-133	
Hexachloro-1,3-butadiene	ug/L	50	47.0	94	59-145	
Iodomethane	ug/L	100	127	127	21-170	
Isopropylbenzene (Cumene)	ug/L	50	55.0	110	69-124	
Methyl-tert-butyl ether	ug/L	100	110	110	69-122	
Methylene Chloride	ug/L	50	63.2	126	68-132	
n-Butylbenzene	ug/L	50	54.3	109	70-126	
n-Hexane	ug/L	50	59.8	120	51-125	N2
n-Propylbenzene	ug/L	50	52.9	106	71-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1107067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	46.1	92	68-127	
p-Isopropyltoluene	ug/L	50	51.7	103	72-132	
sec-Butylbenzene	ug/L	50	52.1	104	70-128	
Styrene	ug/L	50	51.5	103	74-126	
tert-Butylbenzene	ug/L	50	46.6	93	51-118	
Tetrachloroethene	ug/L	50	49.3	99	69-130	
Toluene	ug/L	50	48.3	97	72-122	
trans-1,2-Dichloroethene	ug/L	50	52.5	105	72-124	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	214	107	56-133	
Trichloroethene	ug/L	50	47.2	94	76-126	
Trichlorofluoromethane	ug/L	50	67.3	135	76-149	
Vinyl acetate	ug/L	200	230	115	45-151	
Vinyl chloride	ug/L	50	57.8	116	59-126	
Xylene (Total)	ug/L	150	157	104	70-124	
4-Bromofluorobenzene (S)	%.			103	80-114	
Dibromofluoromethane (S)	%.			101	79-116	
Toluene-d8 (S)	%.			101	81-110	

MATRIX SPIKE SAMPLE: 1107068

Parameter	Units	5098458002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	44.7	89	50-132	
1,1,1-Trichloroethane	ug/L	ND	50	52.6	105	60-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.9	94	55-128	
1,1,2-Trichloroethane	ug/L	ND	50	47.4	92	61-139	
1,1-Dichloroethane	ug/L	ND	50	59.7	119	57-147	
1,1-Dichloroethene	ug/L	ND	50	55.3	111	55-145	
1,1-Dichloropropene	ug/L	ND	50	51.9	104	55-147	
1,2,3-Trichlorobenzene	ug/L	ND	50	47.5	95	31-141	
1,2,3-Trichloropropane	ug/L	ND	50	45.2	90	58-133	
1,2,4-Trichlorobenzene	ug/L	ND	50	46.7	93	25-143	
1,2,4-Trimethylbenzene	ug/L	955	50	758	-394	18-149	M0
1,2-Dibromoethane (EDB)	ug/L	ND	50	49.0	98	63-129	
1,2-Dichlorobenzene	ug/L	ND	50	49.7	99	38-136	
1,2-Dichloroethane	ug/L	ND	50	54.6	109	62-138	
1,2-Dichloropropane	ug/L	ND	50	49.8	100	59-130	
1,3,5-Trimethylbenzene	ug/L	213	50	336	247	20-147	M0
1,3-Dichlorobenzene	ug/L	ND	50	48.6	97	28-141	
1,3-Dichloropropane	ug/L	ND	50	48.7	97	62-127	
1,4-Dichlorobenzene	ug/L	ND	50	48.2	96	30-139	
2,2-Dichloropropane	ug/L	ND	50	40.1	80	37-139	
2-Butanone (MEK)	ug/L	ND	250	235	94	37-156	
2-Chlorotoluene	ug/L	ND	50	182	364	27-142	M0
2-Hexanone	ug/L	ND	250	229	92	44-143	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE SAMPLE: 1107068

Parameter	Units	5098458002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Chlorotoluene	ug/L	ND	50	52.8	106	27-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	242	97	46-144	
Acetone	ug/L	ND	250	344	134	39-156	
Acrolein	ug/L	ND	1000	1100	110	33-200	
Acrylonitrile	ug/L	ND	1000	1160	116	48-149	
Benzene	ug/L	ND	50	48.4	97	62-129	
Bromobenzene	ug/L	ND	50	48.1	96	39-140	
Bromochloromethane	ug/L	ND	50	51.1	102	49-142	
Bromodichloromethane	ug/L	ND	50	64.6	129	50-142	
Bromoform	ug/L	ND	50	43.3	87	36-125	
Bromomethane	ug/L	ND	50	73.9	148	13-179	
Carbon disulfide	ug/L	ND	100	120	120	45-142	
Carbon tetrachloride	ug/L	ND	50	45.8	92	46-142	
Chlorobenzene	ug/L	ND	50	49.4	99	49-136	
Chloroethane	ug/L	ND	50	53.8	108	47-160	
Chloroform	ug/L	ND	50	51.8	104	54-150	
Chloromethane	ug/L	ND	50	64.3	129	30-148	
cis-1,2-Dichloroethene	ug/L	ND	50	48.5	97	60-135	
cis-1,3-Dichloropropene	ug/L	ND	50	43.5	87	52-123	
Dibromochloromethane	ug/L	ND	50	38.7	77	48-125	
Dibromomethane	ug/L	ND	50	46.8	94	59-134	
Dichlorodifluoromethane	ug/L	ND	50	65.4	131	24-197	
Ethyl methacrylate	ug/L	ND	200	193	97	55-139	
Ethylbenzene	ug/L	157	50	200	87	28-153	
Hexachloro-1,3-butadiene	ug/L	ND	50	47.5	95	10-176	
Iodomethane	ug/L	ND	100	142	142	17-157	
Isopropylbenzene (Cumene)	ug/L	59.4	50	113	107	18-152	
Methyl-tert-butyl ether	ug/L	ND	100	110	110	63-130	
Methylene Chloride	ug/L	ND	50	61.8	124	45-156	
n-Butylbenzene	ug/L	ND	50	83.8	168	10-161	M0
n-Hexane	ug/L	30.5	50	91.8	123	33-144	N2
n-Propylbenzene	ug/L	188	50	239	102	16-150	
Naphthalene	ug/L	119	50	158	79	39-140	
p-Isopropyltoluene	ug/L	5.3	50	56.1	102	10-163	
sec-Butylbenzene	ug/L	7.0	50	58.7	103	10-160	
Styrene	ug/L	ND	50	54.1	108	36-139	
tert-Butylbenzene	ug/L	ND	50	47.4	95	12-134	
Tetrachloroethene	ug/L	ND	50	47.9	96	33-151	
Toluene	ug/L	ND	50	48.0	95	50-132	
trans-1,2-Dichloroethene	ug/L	ND	50	54.4	109	40-153	
trans-1,3-Dichloropropene	ug/L	ND	50	43.8	88	48-122	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	191	95	32-139	
Trichloroethene	ug/L	ND	50	47.9	96	50-143	
Trichlorofluoromethane	ug/L	ND	50	71.9	144	60-175	
Vinyl acetate	ug/L	ND	200	201	100	17-142	
Vinyl chloride	ug/L	ND	50	62.5	125	44-145	
Xylene (Total)	ug/L	640	150	754	76	29-145	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE SAMPLE: 1107068

Parameter	Units	5098458002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.				104	80-114	
Dibromofluoromethane (S)	%.				107	79-116	
Toluene-d8 (S)	%.				100	81-110	

SAMPLE DUPLICATE: 1107069

Parameter	Units	5098458003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	64.5	65.7	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	3.6J		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

SAMPLE DUPLICATE: 1107069

Parameter	Units	5098458003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	294	378	25	20	R1
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	44.4	44.4	0	20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	ND	ND		20	
n-Hexane	ug/L	ND	ND		20	N2
n-Propylbenzene	ug/L	99.4	100	1	20	
Naphthalene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	ND	4J		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	5.5	5.5	0	20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	102	102	0		
Dibromofluoromethane (S)	%.	100	101	1		
Toluene-d8 (S)	%.	103	101	1		

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: MSV/65460
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5098388028

METHOD BLANK: 1106104
Matrix: Solid
Associated Lab Samples: 5098388028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,1-Dichloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,1-Dichloroethene	mg/kg	ND	0.0050	06/05/14 13:39	
1,1-Dichloropropene	mg/kg	ND	0.0050	06/05/14 13:39	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	06/05/14 13:39	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	06/05/14 13:39	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,2-Dichloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
1,2-Dichloropropane	mg/kg	ND	0.0050	06/05/14 13:39	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
1,3-Dichloropropane	mg/kg	ND	0.0050	06/05/14 13:39	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
2,2-Dichloropropane	mg/kg	ND	0.0050	06/05/14 13:39	
2-Butanone (MEK)	mg/kg	ND	0.025	06/05/14 13:39	
2-Chlorotoluene	mg/kg	ND	0.0050	06/05/14 13:39	
2-Hexanone	mg/kg	ND	0.10	06/05/14 13:39	
4-Chlorotoluene	mg/kg	ND	0.0050	06/05/14 13:39	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	06/05/14 13:39	
Acetone	mg/kg	ND	0.10	06/05/14 13:39	
Acrolein	mg/kg	ND	0.10	06/05/14 13:39	
Acrylonitrile	mg/kg	ND	0.10	06/05/14 13:39	
Benzene	mg/kg	ND	0.0050	06/05/14 13:39	
Bromobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Bromochloromethane	mg/kg	ND	0.0050	06/05/14 13:39	
Bromodichloromethane	mg/kg	ND	0.0050	06/05/14 13:39	
Bromoform	mg/kg	ND	0.0050	06/05/14 13:39	
Bromomethane	mg/kg	ND	0.0050	06/05/14 13:39	
Carbon disulfide	mg/kg	ND	0.010	06/05/14 13:39	
Carbon tetrachloride	mg/kg	ND	0.0050	06/05/14 13:39	
Chlorobenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Chloroethane	mg/kg	ND	0.0050	06/05/14 13:39	
Chloroform	mg/kg	ND	0.0050	06/05/14 13:39	
Chloromethane	mg/kg	ND	0.0050	06/05/14 13:39	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	06/05/14 13:39	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

METHOD BLANK: 1106104 Matrix: Solid
Associated Lab Samples: 5098388028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	06/05/14 13:39	
Dibromochloromethane	mg/kg	ND	0.0050	06/05/14 13:39	
Dibromomethane	mg/kg	ND	0.0050	06/05/14 13:39	
Dichlorodifluoromethane	mg/kg	ND	0.0050	06/05/14 13:39	
Ethyl methacrylate	mg/kg	ND	0.10	06/05/14 13:39	
Ethylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	06/05/14 13:39	
Iodomethane	mg/kg	ND	0.10	06/05/14 13:39	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	06/05/14 13:39	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	06/05/14 13:39	
Methylene Chloride	mg/kg	ND	0.020	06/05/14 13:39	
n-Butylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
n-Hexane	mg/kg	ND	0.0050	06/05/14 13:39	N2
n-Propylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Naphthalene	mg/kg	ND	0.0050	06/05/14 13:39	
p-Isopropyltoluene	mg/kg	ND	0.0050	06/05/14 13:39	
sec-Butylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Styrene	mg/kg	ND	0.0050	06/05/14 13:39	
tert-Butylbenzene	mg/kg	ND	0.0050	06/05/14 13:39	
Tetrachloroethene	mg/kg	ND	0.0050	06/05/14 13:39	
Toluene	mg/kg	ND	0.0050	06/05/14 13:39	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	06/05/14 13:39	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	06/05/14 13:39	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	06/05/14 13:39	
Trichloroethene	mg/kg	ND	0.0050	06/05/14 13:39	
Trichlorofluoromethane	mg/kg	ND	0.0050	06/05/14 13:39	
Vinyl acetate	mg/kg	ND	0.10	06/05/14 13:39	
Vinyl chloride	mg/kg	ND	0.0050	06/05/14 13:39	
Xylene (Total)	mg/kg	ND	0.010	06/05/14 13:39	
4-Bromofluorobenzene (S)	%.	92	56-144	06/05/14 13:39	
Dibromofluoromethane (S)	%.	102	85-118	06/05/14 13:39	
Toluene-d8 (S)	%.	95	71-128	06/05/14 13:39	

LABORATORY CONTROL SAMPLE: 1106105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.053	106	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.055	109	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	99	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.054	108	74-129	
1,1-Dichloroethane	mg/kg	.05	0.053	107	73-130	
1,1-Dichloroethene	mg/kg	.05	0.054	108	66-126	
1,1-Dichloropropene	mg/kg	.05	0.057	113	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.047	94	66-131	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	.05	0.049	97	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.047	93	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.053	106	67-126	
1,2-Dibromoethane (EDB)	mg/kg	.05	0.054	107	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.052	105	73-122	
1,2-Dichloroethane	mg/kg	.05	0.055	110	73-127	
1,2-Dichloropropane	mg/kg	.05	0.051	102	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.052	105	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.052	104	73-121	
1,3-Dichloropropane	mg/kg	.05	0.053	105	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.049	98	75-119	
2,2-Dichloropropane	mg/kg	.05	0.061	121	63-122	
2-Butanone (MEK)	mg/kg	.25	0.29	115	59-139	
2-Chlorotoluene	mg/kg	.05	0.051	102	72-121	
2-Hexanone	mg/kg	.25	0.25	100	56-139	
4-Chlorotoluene	mg/kg	.05	0.052	103	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.25	101	63-136	
Acetone	mg/kg	.25	0.25	100	46-156	
Acrolein	mg/kg	1	0.93	93	47-200	
Acrylonitrile	mg/kg	1	1.1	111	67-130	
Benzene	mg/kg	.05	0.057	114	74-119	
Bromobenzene	mg/kg	.05	0.052	104	69-129	
Bromochloromethane	mg/kg	.05	0.049	97	67-129	
Bromodichloromethane	mg/kg	.05	0.052	103	68-121	
Bromoform	mg/kg	.05	0.048	97	49-124	
Bromomethane	mg/kg	.05	0.050	99	44-142	
Carbon disulfide	mg/kg	.1	0.11	110	61-129	
Carbon tetrachloride	mg/kg	.05	0.056	111	58-127	
Chlorobenzene	mg/kg	.05	0.050	101	77-122	
Chloroethane	mg/kg	.05	0.044	88	59-141	
Chloroform	mg/kg	.05	0.051	102	75-124	
Chloromethane	mg/kg	.05	0.045	91	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.054	108	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.046	92	68-115	
Dibromochloromethane	mg/kg	.05	0.052	105	60-121	
Dibromomethane	mg/kg	.05	0.052	104	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.055	110	26-186	
Ethyl methacrylate	mg/kg	.2	0.20	98	63-130	
Ethylbenzene	mg/kg	.05	0.058	116	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.049	99	55-139	
Iodomethane	mg/kg	.1	.09J	90	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.058	115	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.11	111	68-120	
Methylene Chloride	mg/kg	.05	0.054	108	57-142	
n-Butylbenzene	mg/kg	.05	0.048	96	68-125	
n-Hexane	mg/kg	.05	0.049	98	57-117	N2
n-Propylbenzene	mg/kg	.05	0.057	114	68-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1106105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	mg/kg	.05	0.042	84	67-131	
p-Isopropyltoluene	mg/kg	.05	0.052	105	66-133	
sec-Butylbenzene	mg/kg	.05	0.054	107	64-131	
Styrene	mg/kg	.05	0.055	110	70-126	
tert-Butylbenzene	mg/kg	.05	0.055	110	46-124	
Tetrachloroethene	mg/kg	.05	0.052	105	72-126	
Toluene	mg/kg	.05	0.048	96	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.055	110	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.049	97	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.21	103	61-124	
Trichloroethene	mg/kg	.05	0.053	106	74-123	
Trichlorofluoromethane	mg/kg	.05	0.049	97	72-146	
Vinyl acetate	mg/kg	.2	0.18	92	57-131	
Vinyl chloride	mg/kg	.05	0.045	89	55-128	
Xylene (Total)	mg/kg	.15	0.16	109	66-124	
4-Bromofluorobenzene (S)	%.			103	56-144	
Dibromofluoromethane (S)	%.			98	85-118	
Toluene-d8 (S)	%.			102	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106106 1106107

Parameter	Units	5098351003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.037	.038	0.056	0.030	150	81	10-129	59	20	
1,1,1-Trichloroethane	mg/kg	ND	.037	.038	0.043	0.032	116	84	26-143	31	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.037	.038	0.085	0.030	228	80	10-156	95	20	
1,1,2-Trichloroethane	mg/kg	ND	.037	.038	0.051	0.029	138	76	13-156	57	20	
1,1-Dichloroethane	mg/kg	ND	.037	.038	0.041	0.032	111	84	36-150	26	20	
1,1-Dichloroethene	mg/kg	ND	.037	.038	0.043	0.032	116	86	31-146	28	20	
1,1-Dichloropropene	mg/kg	ND	.037	.038	0.043	0.032	115	86	26-145	27	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.037	.038	0.020	0.012	52	33	10-119	45	20	
1,2,3-Trichloropropane	mg/kg	ND	.037	.038	0.079	0.029	213	78	10-168	92	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.037	.038	0.020	0.013	54	35	10-122	41	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.037	.038	0.079	0.030	213	80	10-139	89	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.037	.038	0.039	0.024	104	64	15-136	47	20	
1,2-Dichlorobenzene	mg/kg	ND	.037	.038	0.044	0.020	119	53	10-132	76	20	
1,2-Dichloroethane	mg/kg	ND	.037	.038	0.039	0.030	106	79	30-140	28	20	
1,2-Dichloropropane	mg/kg	ND	.037	.038	0.037	0.028	101	74	29-135	29	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.037	.038	0.090	0.033	243	86	10-143	94	20	
1,3-Dichlorobenzene	mg/kg	ND	.037	.038	0.046	0.020	122	54	10-130	76	20	
1,3-Dichloropropane	mg/kg	ND	.037	.038	0.045	0.027	122	72	17-139	51	20	
1,4-Dichlorobenzene	mg/kg	ND	.037	.038	0.039	0.018	105	47	10-128	75	20	
2,2-Dichloropropane	mg/kg	ND	.037	.038	0.051	0.037	137	98	29-136	32	20	
2-Butanone (MEK)	mg/kg	ND	.18	.18	0.26	0.20	137	106	22-176	25	20	
2-Chlorotoluene	mg/kg	ND	.037	.038	0.076	0.029	204	76	10-146	90	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106106 1106107

Parameter	Units	5098351003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	mg/kg	ND	.18	.18	0.27	0.16	146	86	12-165	51	20	
4-Chlorotoluene	mg/kg	ND	.037	.038	0.059	0.024	159	64	10-138	84	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.18	.18	0.28	0.17	152	90	22-155	51	20	
Acetone	mg/kg	ND	.18	.18	0.23	0.18	126	97	11-200	25	20	
Acrolein	mg/kg	ND	.75	.76	0.71	0.55	95	73	10-200	25	20	
Acrylonitrile	mg/kg	ND	.75	.76	0.93	0.75	124	99	20-150	22	20	
Benzene	mg/kg	ND	.037	.038	0.043	0.033	116	87	27-140	27	20	
Bromobenzene	mg/kg	ND	.037	.038	0.028	0.019	75	50	10-133	40	20	
Bromochloromethane	mg/kg	ND	.037	.038	0.036	0.028	97	75	28-142	24	20	
Bromodichloromethane	mg/kg	ND	.037	.038	0.036	0.027	96	71	13-139	28	20	
Bromoform	mg/kg	ND	.037	.038	0.063	0.027	170	71	10-122	81	20	
Bromomethane	mg/kg	ND	.037	.038	0.039	0.031	104	83	10-154	21	20	
Carbon disulfide	mg/kg	ND	.075	.076	0.089	0.065	119	86	20-142	31	20	
Carbon tetrachloride	mg/kg	ND	.037	.038	0.044	0.033	118	89	19-135	27	20	
Chlorobenzene	mg/kg	ND	.037	.038	0.039	0.023	106	62	10-136	51	20	
Chloroethane	mg/kg	ND	.037	.038	0.035	0.026	95	69	24-161	31	20	
Chloroform	mg/kg	ND	.037	.038	0.039	0.029	106	77	36-138	30	20	
Chloromethane	mg/kg	ND	.037	.038	0.036	0.029	97	76	28-143	23	20	
cis-1,2-Dichloroethene	mg/kg	30.6 ug/kg	.037	.038	0.041	0.029	29	-4	29-136	35	20	
cis-1,3-Dichloropropene	mg/kg	ND	.037	.038	0.038	0.023	102	62	10-130	47	20	
Dibromochloromethane	mg/kg	ND	.037	.038	0.045	0.026	120	68	10-124	54	20	
Dibromomethane	mg/kg	ND	.037	.038	0.034	0.027	92	72	24-136	24	20	
Dichlorodifluoromethane	mg/kg	ND	.037	.038	0.046	0.034	124	90	15-187	31	20	
Ethyl methacrylate	mg/kg	ND	.15	.15	0.17	0.10	117	70	10-147	50	20	
Ethylbenzene	mg/kg	ND	.037	.038	0.052	0.030	140	81	10-144	53	20	
Hexachloro-1,3-butadiene	mg/kg	ND	.037	.038	0.069	0.028	185	75	10-136	83	20	
Iodomethane	mg/kg	ND	.075	.076	.068J	.051J	91	67	10-155		20	
Isopropylbenzene (Cumene)	mg/kg	ND	.037	.038	0.057	0.033	154	87	10-134	55	20	
Methyl-tert-butyl ether	mg/kg	ND	.075	.076	0.093	0.072	125	96	30-147	25	20	
Methylene Chloride	mg/kg	ND	.037	.038	0.040	0.029	107	77	23-150	32	20	
n-Butylbenzene	mg/kg	ND	.037	.038	0.059	0.026	158	68	10-141	78	20	
n-Hexane	mg/kg	ND	.037	.038	0.043	0.033	115	88	10-140	26	20	N2
n-Propylbenzene	mg/kg	ND	.037	.038	0.091	0.034	244	90	10-143	91	20	
Naphthalene	mg/kg	ND	.037	.038	0.017	0.011	46	30	10-130	41	20	
p-Isopropyltoluene	mg/kg	ND	.037	.038	0.083	0.032	224	86	10-146	89	20	
sec-Butylbenzene	mg/kg	ND	.037	.038	0.094	0.034	253	91	10-150	93	20	
Styrene	mg/kg	ND	.037	.038	0.037	0.024	99	63	10-138	43	20	
tert-Butylbenzene	mg/kg	ND	.037	.038	0.11	0.038	285	101	10-135	95	20	
Tetrachloroethene	mg/kg	ND	.037	.038	0.054	0.030	146	80	10-153	58	20	
Toluene	mg/kg	ND	.037	.038	0.048	0.026	129	70	10-140	58	20	
trans-1,2-Dichloroethene	mg/kg	ND	.037	.038	0.041	0.030	111	80	28-139	31	20	
trans-1,3-Dichloropropene	mg/kg	ND	.037	.038	0.033	0.022	89	59	10-126	40	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.15	.15	0.093	.068J	63	45	10-132		20	
Trichloroethene	mg/kg	77.1 ug/kg	.037	.038	0.037	0.029	-109	-129	17-148	25	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1106106 1106107

Parameter	Units	5098351003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	mg/kg	ND	.037	.038	0.040	0.030	109	80	31-177	29	20	
Vinyl acetate	mg/kg	ND	.15	.15	0.13	0.10	87	69	10-131	23	20	
Vinyl chloride	mg/kg	ND	.037	.038	0.036	0.027	97	71	30-145	30	20	
Xylene (Total)	mg/kg	ND	.11	.11	0.15	0.087	134	77	10-143	52	20	
4-Bromofluorobenzene (S)	%.						81	99	56-144			
Dibromofluoromethane (S)	%.						100	99	85-118			3d,4d
Toluene-d8 (S)	%.						133	104	71-128			S0

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: OEXT/35946 — Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 — Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388016, 5098388018, 5098388019, 5098388020, 5098388022, 5098388023, 5098388025

METHOD BLANK: 1101418 — Matrix: Water
Associated Lab Samples: 5098388001, 5098388002, 5098388003, 5098388004, 5098388005, 5098388006, 5098388007, 5098388009, 5098388011, 5098388013, 5098388014, 5098388015, 5098388016, 5098388018, 5098388019, 5098388020, 5098388022, 5098388023, 5098388025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	05/30/14 03:36	N2
2-Methylnaphthalene	ug/L	ND	1.0	05/30/14 03:36	
Acenaphthene	ug/L	ND	1.0	05/30/14 03:36	
Acenaphthylene	ug/L	ND	1.0	05/30/14 03:36	
Anthracene	ug/L	ND	0.10	05/30/14 03:36	
Benzo(a)anthracene	ug/L	ND	0.10	05/30/14 03:36	
Benzo(a)pyrene	ug/L	ND	0.10	05/30/14 03:36	
Benzo(b)fluoranthene	ug/L	ND	0.10	05/30/14 03:36	
Benzo(g,h,i)perylene	ug/L	ND	0.10	05/30/14 03:36	
Benzo(k)fluoranthene	ug/L	ND	0.10	05/30/14 03:36	
Chrysene	ug/L	ND	0.50	05/30/14 03:36	
Dibenz(a,h)anthracene	ug/L	ND	0.10	05/30/14 03:36	
Fluoranthene	ug/L	ND	1.0	05/30/14 03:36	
Fluorene	ug/L	ND	1.0	05/30/14 03:36	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	05/30/14 03:36	
Naphthalene	ug/L	ND	1.0	05/30/14 03:36	
Phenanthrene	ug/L	ND	1.0	05/30/14 03:36	
Pyrene	ug/L	ND	1.0	05/30/14 03:36	
2-Fluorobiphenyl (S)	%.	48	21-114	05/30/14 03:36	
p-Terphenyl-d14 (S)	%.	80	25-131	05/30/14 03:36	

LABORATORY CONTROL SAMPLE: 1101419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	7.1	71	29-112	N2
2-Methylnaphthalene	ug/L	10	6.1	61	29-110	
Acenaphthene	ug/L	10	7.8	78	39-117	
Acenaphthylene	ug/L	10	8.0	80	40-120	
Anthracene	ug/L	10	9.3	93	48-126	
Benzo(a)anthracene	ug/L	10	8.4	84	51-134	
Benzo(a)pyrene	ug/L	10	7.8	78	48-141	
Benzo(b)fluoranthene	ug/L	10	7.8	78	49-139	
Benzo(g,h,i)perylene	ug/L	10	6.3	63	44-134	
Benzo(k)fluoranthene	ug/L	10	8.2	82	48-140	
Chrysene	ug/L	10	8.9	89	53-136	
Dibenz(a,h)anthracene	ug/L	10	6.2	62	44-132	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

LABORATORY CONTROL SAMPLE: 1101419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	10	9.9	99	50-135	
Fluorene	ug/L	10	8.9	89	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.3	63	45-132	
Naphthalene	ug/L	10	6.4	64	30-112	
Phenanthrene	ug/L	10	8.7	87	47-128	
Pyrene	ug/L	10	9.3	93	50-134	
2-Fluorobiphenyl (S)	%.			49	21-114	
p-Terphenyl-d14 (S)	%.			79	25-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101420 1101421

Parameter	Units	5098388006 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	ND	10	10.5	7.8	8.1	78	77	10-135	4	20	N2
2-Methylnaphthalene	ug/L	ND	10	10.5	6.8	7.1	68	68	16-116	4	20	
Acenaphthene	ug/L	ND	10	10.5	8.1	8.2	81	78	28-116	2	20	
Acenaphthylene	ug/L	ND	10	10.5	8.3	8.5	83	80	34-115	2	20	
Anthracene	ug/L	ND	10	10.5	9.2	9.6	92	91	39-121	4	20	
Benzo(a)anthracene	ug/L	ND	10	10.5	7.4	7.5	74	71	31-127	2	20	
Benzo(a)pyrene	ug/L	ND	10	10.5	5.9	5.8	59	55	10-121	2	20	
Benzo(b)fluoranthene	ug/L	ND	10	10.5	6.0	5.9	60	56	10-119	1	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10.5	3.6	3.0	36	28	10-108	18	20	
Benzo(k)fluoranthene	ug/L	ND	10	10.5	6.2	6.0	62	57	10-118	4	20	
Chrysene	ug/L	ND	10	10.5	7.7	7.8	77	74	32-127	2	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10.5	3.3	2.8	33	27	10-104	17	20	
Fluoranthene	ug/L	ND	10	10.5	9.8	10.1	98	96	38-131	3	20	
Fluorene	ug/L	ND	10	10.5	8.9	9.0	89	86	33-121	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10.5	3.6	3.2	36	30	10-108	14	20	
Naphthalene	ug/L	ND	10	10.5	7.2	7.6	72	72	16-119	4	20	
Phenanthrene	ug/L	ND	10	10.5	8.8	9.1	88	86	32-130	3	20	
Pyrene	ug/L	ND	10	10.5	9.1	9.4	91	90	39-131	4	20	
2-Fluorobiphenyl (S)	%.						62	57	21-114			
p-Terphenyl-d14 (S)	%.						75	76	25-131			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

QC Batch: WET/16252 — Analysis Method: EPA 7196
QC Batch Method: EPA 7196 — Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 5098388001, 5098388011, 5098388015, 5098388025

METHOD BLANK: 1111438 — Matrix: Water
Associated Lab Samples: 5098388001, 5098388011, 5098388015, 5098388025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	06/16/14 12:57	

LABORATORY CONTROL SAMPLE: 1111439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.5	0.52	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1111440 1111441

Parameter	Units	5098388025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	ND	.5	.5	0.50	0.54	101	109	85-115	7	20	

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

1d	Analyte was detected in the associated method blank. Potential high bias. FRW 6-4-14
2d	Analyte was detected in the method blank. Associated samples with concentrations of at least ten times greater than the blank or were below the reporting limit not qualified. All other samples commented potential high bias. FRW 6-4-14
3d	Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. BJG 06-06-14.
4d	Multiple compounds have a RPD greater than the RPD max refer to the LCS for system control. BJG 06-06-14.
CU	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098388001	**SB-GW-27**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388001	**SB-GW-27**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388002	**SB-GW-13**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388002	**SB-GW-13**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388003	**SB-GW-25**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388003	**SB-GW-25**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388004	**SB-GW-1**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388004	**SB-GW-1**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388005	**SB-GW-23**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388005	**SB-GW-23**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388006	**SB-GW-9**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388006	**SB-GW-9**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388007	**EB-1**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388007	**EB-1**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388009	**SB-GW-11**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388009	**SB-GW-11**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388011	**SB-GW-18**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388011	**SB-GW-18**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388013	**SB-GW-15**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388013	**SB-GW-15**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388014	**EB-2**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388014	**EB-2**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388015	**SB-GW-17**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388015	**SB-GW-17**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388020	**SB-GW-4**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388020	**SB-GW-4**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388021	**SB-GW-4 DUP**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388021	**SB-GW-4 DUP**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388022	**EB-3**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388022	**EB-3**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388023	**SB-GW-24**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388023	**SB-GW-24**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388025	**SB-GW-7**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665

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1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098388025	**SB-GW-7**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388026	**SB-GW-3**	EPA 3010	MPRP/13464	EPA 6010	ICP/15665
5098388026	**SB-GW-3**	EPA 3010	MPRP/13517	EPA 6010	ICP/15703
5098388001	**SB-GW-27**	EPA 3005A	MPRP/1359	EPA 6020	ICPM/1087
5098388003	**SB-GW-25**	EPA 3005A	MPRP/1557	EPA 6020	ICPM/1133
5098388006	**SB-GW-9**	EPA 3005A	MPRP/1557	EPA 6020	ICPM/1133
5098388011	**SB-GW-18**	EPA 3005A	MPRP/1359	EPA 6020	ICPM/1087
5098388013	**SB-GW-15**	EPA 3005A	MPRP/1557	EPA 6020	ICPM/1133
5098388015	**SB-GW-17**	EPA 3005A	MPRP/1359	EPA 6020	ICPM/1087
5098388024	**SB-GW-3**	EPA 3005A	MPRP/1557	EPA 6020	ICPM/1133
5098388025	**SB-GW-7**	EPA 3005A	MPRP/1359	EPA 6020	ICPM/1087
5098388001	**SB-GW-27**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388002	**SB-GW-13**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388003	**SB-GW-25**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388004	**SB-GW-1**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388005	**SB-GW-23**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388006	**SB-GW-9**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388007	**EB-1**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388009	**SB-GW-11**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388011	**SB-GW-18**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388013	**SB-GW-15**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388014	**EB-2**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388015	**SB-GW-17**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388020	**SB-GW-4**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388021	**SB-GW-4 DUP**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388022	**EB-3**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388023	**SB-GW-24**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388025	**SB-GW-7**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388026	**SB-GW-3**	EPA 7470	MERP/5444	EPA 7470	MERC/5947
5098388001	**SB-GW-27**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388002	**SB-GW-13**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388003	**SB-GW-25**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388004	**SB-GW-1**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388005	**SB-GW-23**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388006	**SB-GW-9**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388007	**EB-1**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388009	**SB-GW-11**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388011	**SB-GW-18**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388013	**SB-GW-15**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388014	**EB-2**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388015	**SB-GW-17**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388016	**SB-GW-20**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388018	**SB-GW-3**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098388019	**SB-GW-3 DUP**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388020	**SB-GW-4**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388022	**EB-3**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388023	**SB-GW-24**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388025	**SB-GW-7**	EPA 3510	OEXT/35946	EPA 8270 by SIM LVE	MSSV/15369
5098388001	**SB-GW-27**	EPA 8260	MSV/65484		
5098388002	**SB-GW-13**	EPA 8260	MSV/65486		
5098388003	**SB-GW-25**	EPA 8260	MSV/65486		
5098388004	**SB-GW-1**	EPA 8260	MSV/65486		
5098388005	**SB-GW-23**	EPA 8260	MSV/65486		
5098388006	**SB-GW-9**	EPA 8260	MSV/65486		
5098388007	**EB-1**	EPA 8260	MSV/65486		
5098388009	**SB-GW-11**	EPA 8260	MSV/65486		
5098388010	**SB-GW-3**	EPA 8260	MSV/65486		
5098388011	**SB-GW-18**	EPA 8260	MSV/65486		
5098388012	**SB-GW-20**	EPA 8260	MSV/65486		
5098388013	**SB-GW-15**	EPA 8260	MSV/65486		
5098388014	**EB-2**	EPA 8260	MSV/65487		
5098388015	**SB-GW-17**	EPA 8260	MSV/65487		
5098388017	**SB-GW-3 DUP**	EPA 8260	MSV/65511		
5098388020	**SB-GW-4**	EPA 8260	MSV/65487		
5098388022	**EB-3**	EPA 8260	MSV/65487		
5098388023	**SB-GW-24**	EPA 8260	MSV/65487		
5098388025	**SB-GW-7**	EPA 8260	MSV/65487		
5098388027	**TB - WATER**	EPA 8260	MSV/65484		
5098388028	**TB - SOIL**	EPA 8260	MSV/65460		
5098388001	**SB-GW-27**	EPA 7196	WET/16252		
5098388011	**SB-GW-18**	EPA 7196	WET/16252		
5098388015	**SB-GW-17**	EPA 7196	WET/16252		
5098388025	**SB-GW-7**	EPA 7196	WET/16252		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3

1764674

Section A Required Client Information:
Company: BCA
Address: 10330 E. 75th St. Suite 150, Indianapolis, IN 46250
Email To: lhinrichs@bccconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CIP
Project Number: 14-127

Section C Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: IN

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOCs	PAHs	TOTAL METALS	Dis. METALS (Hold)	Cr VI (Hold)	Filtered	10020 As+Pb	10020 As, Cr, Pb	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	SB-GW-27	WT	G			5/22/14	10:25		7	1		2	3	1					X	X	X	X	X					001
2	SB-GW-13					5/23/14	0825		6	1		1	3	1					X	X	X		X					002
3	SB-GW-25					5/23/14	0900		7	1		2	3	1					X	X	X	X	X		X			003
4	SB-GW-1					5/23/14	1015		7	1		2	3	1					X	X	X	X	X					004
5	SB-GW-23					5/23/14	1158		7	1		2	3	1					X	X	X	X	X					005
6	SB-GW-9					5/23/14	1600		17	3		4	9	1					X	X	X	X	X			X	MS/MSD	006
7	EB-1					5/23/14	1535		7	1		2	3	1					X	X	X	X	X					007
8	SB-GW-13					5/24/14	1030		1			1										X						008
9	SB-GW-11					5/24/14	1130		7	1		2	3	1					X	X	X	X						009
10	SB-GW-3					5/24/14	1230		4	3			3	1					X				X					010
11	SB-GW-18					5/24/14	1345		7	1		2	3	1					X	X	X	X	X					011
12	SB-GW-20					5/24/14	1700		3				3						X									012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Chelsie R Dugan	5/27/14	~~1500~~ 16:54	Kimberly Lawson	5-27-14	16:54	3.7 / 0.4 / Y / N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie R. Dugan
SIGNATURE of SAMPLER: Chelsie R Dugan
DATE Signed (MM/DD/YY): 05/27/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WT/ Client 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.

F-ALL-Q-020rev.07, 15-May-2007

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1764675

Section A Required Client Information:
Company: BCA
Address: 4330 E. 75th St. Suite 150
Indianapolis IN. 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4238 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: LEN HINRICHS
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CTP
Project Number: 14-127

Section C Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location (STATE): IN

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): 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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOCs	PAHs	TOTAL METALS	DIS. METALS (MDL-LD)	Cr VI (MDL-LD)	Filtered!	Pb 7.30 µg/L	Pb 1020	As, Be, Cr, Pb 1020	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5098388
1	SB-GW-15	WT	G			5/24/14	1730		7	1		2	3	1					X	X	X	X	X		X				013
2	EB-2					5/24/14	1820		7	1		2	3	1					X	X	X	X	X						014
3	SB-GW-17					5/26/14	1435		7	1		2	3	1					X	X	X	X	X						015
4	SB-GW-20					5/26/14	1618		1	1										X									016
5	SB-GW-3 DUP					5/24/14	1230		3				3						X										017
6	SB-GW-3					5/26/14	1700		1	1										X									018
7	SB-GW-3 DUP					5/26/14	1730		1	1										X									019
8	SB-GW-4					5/26/14	1745		7	1		2	3	1					X	X	X	X	X						020
9	SB-GW-4 DUP					5/26/14	1745		1			1									X								021
10	EB-3					5/26/14	1810		7	1		2	3	1					X	X	X	X	X						022
11	SB-GW-24					5/27/14	1025		7	1		2	3	1					X	X	X	X	X						023
12	SB-GW-3					5/27/14	1100		1			1										X				X			024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Chelsie R. Dugan	5/27/14	1500 16154	Howard Stevens	5-27-14	16:54

SAMPLE CONDITIONS: Temp in °C 3.7 4.4; Received on Ice (Y/N) Y; Custody Sealed Cooler (Y/N) N; Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie R. Dugan
SIGNATURE of SAMPLER: Chelsie R. Dugan
DATE Signed (MM/DD/YY): 05/27/14

WIT/ client

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.

F-ALL-Q-020rev.07, 15-May-2007

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Page: 3 of 3

1764676

Section A Required Client Information:

Company: BCA
Address: 10330 E. 75th St. Suite 150
Indianapolis IN. 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CTP
Project Number: 14-127

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: IN

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

Item #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOCs	PAHs	TOTAL METALS	DIS. METALS (Hold)	Cr. VI (HOLD)	Fulbeck	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	SB-GW-7	WT	G			5/27/14	1140		7	1		2	3	1					X	X	X	X	X			025
2	SB-GW-3	WT	G			5/26/14	1700		1			1									X					026
3	TB-WATER								3				3						X							027
4	TB-SOIL								3				3						X							028
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Chelsie R. Dugan	5/27/14	~~15:27~~ 16:54	[illegible]	5-27-14	16:54	3.7 4.4	Y	N	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie R. Dugan
SIGNATURE of SAMPLER: Chelsie R. Dugan
DATE Signed (MM/DD/YY): 5/27/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WCT / client 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.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: BCA **Project #** 5098388

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☑ no

Date/Time 5035A kits placed in freezer 5/27/14 1830

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used 1 2 3 4 5 A B C D E **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.7, 4.4 **Ice Visible in Sample Containers:** ☑ yes ☐ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: MB 5/27/14

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☐No	☑N/A	5.
Rush Turn Around Time Requested:	☐Yes	☐No	☑N/A	6.
Containers Intact:	☐Yes	☑No	☐N/A	7. See attached sheet MB
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8. Na2S bottle rec'd for GW-11 but no analysis marked for this bottle on COC MB
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes	☐No	☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	10. See attached sheet MB
Trip Blank Present:	☑Yes	☐No	☐N/A	11. rec'd 3 water voa vials & 3 terracore vials for trip blank MB
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☐Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: John K, Len H, Chelsie D. Date/Time: 5/27/14 1747

Comments/ Resolution: *see attached sheet for ice in vials MB 5/27/14
*see attached sheet for vials rec'd w/ each trip blank MB 5/27/14
*see attached sheet for low volumes MB 5/27/14
Some VOA vials received with ice - proceed per John's 5/27/14 email
Total Metals = 14 Metals
~~Total & Dissolved Metals marked on COC for EB-1, but no containers~~
Containers there. Contacted sheet MB MOM 5/29/14
Added 1020 Diss As, Be, Cr, Pb + Cr VI to SB-GW-1, -17, -18, + -27 per Len 6.13.14 MB

Project Manager Review: Lynne A Bell **Date:** 5/28/14

Form F-IN-Q-290-rev.05, 10Sep2013

TB - water recv in cooler w/ the following water vials:
GW-27, GW-25, GW-9 (9 vials), EB-1, EB-3, GW-13 (on 5/23/14) MB 5/27/14

TB - soil recv in cooler w/ the following water vials:
GW-20, GW-23, GW-18, GW-17, GW-11, GW-24, GW-7, GW-3 Dup (5/24/14 @ 12:30), GW-4, GW-3 (5/24/14 @ 12:30) MB 5/27/14

Voa vials recv w/ ice in them:
GW-27 (2 vials), GW-13 (on 5/23/14) (2 vials), GW-23 (2 vials), GW-9 (3 vials), GW-25 (1 vial), GW-1 (1 vial + recv broken) MB 5/27/14

Voa Vials w/ headspace:
GW-27 (3 vials), GW-13 (5/23/14) (1 vial), GW-25 (1 vial), GW-1 (1 vial), GW-23 (2 vials), GW-9 (3 vials), GW-15 (1 vial) MB 5/27/14

BP3C recv w/ low volume (~ 1/2 full or less): GW-3, GW-13 MB 5/27/14

BP3N (total) recv w/ low volume (~ 1/2 full or less): GW-13 MB 5/27/14

BP3N (Dissolved) recv w/ low volume (~ 1/2 full or less): GW-25, GW-13 MB 5/27/14

Results for 6020 & 7196 (added 6/13) requested by 6/20/14 per Len. 6/16/14 KKB

Added per Len 7/30/14: 3-5 day TAT

-003, SB-GW-25	6020	Dissolved	As + Pb	
-006, SB-GW-9	6020	Dissolved	As, Cr, Pb	
-013, SB-GW-15	6020	Dissolved	Pb	
-024, SB-GW-3	6020	Dissolved	As, Be, Cr, Pb	7/30/14 KKB

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 3
COC ID# 1764674

Project # 5098388

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N (Tot)	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	BP2C SP5T	BP3N (Diss.)	pH <2	pH>12	Comments
1	3			1					1							1	1	✓	✓	
2	3			1					1							1		✓	✓	
3	3			1					1							1	1	✓	✓	
4	2			1					1							1	1	✓	✓	1 vial recv broken MB 5/27/14
5	3			1					1							1	1	✓	✓	
6	8			3					3							1	1	✓	✓	1 vial recv broken MB 5/27/14
7	3			1					1							1	1		✓	
8																	1	✓		
9	3			1					1							1	1	✓	✓	see SCURF MB 5/27/14
10	3															1			✓	
11	3			1					1							1	1	✓	✓	
12	3																			

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

Sample Container Count

CLIENT: BCA

COC PAGE 2 of 3
COC ID# 1764675

Project # 5078388

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	Tot. BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	BP3C ~~SPST~~	Diss ~~BP3N~~	pH <2	pH>12	Comments
1	3			1					1							1	1	✓	✓	
2	3			1					1							1	1	✓	✓	
3	3			1					1							1	1	✓	✓	
4				1																
5	3																			
6				1																
7				1																
8	3			1					1							1	1	✓	✓	
9									1									✓		
10	3			1					1							1	1	✓	✓	
11	3			1					1							1	1	✓	✓	
12																	1	✓		

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gl	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: BCA

COC PAGE 3 of 3
COC ID# 1764676

Project # 5098388

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	BP3C ~~BP3F~~	DISS BP3N	pH <2	pH>12	Comments
1	3			1						1							1	1	✓	✓	
2										1									✓		
3	3																				
4					3																
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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June 12, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch: 11277CA
Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Oklahoma Department of Environmental Quality: 2010-139
Oregon Environmental Laboratory Accreditation: LA200001
Pennsylviania Dept. of Env Protection (NELAC): 68-04202
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119
Washington Department of Ecology: C2078

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5098316001	**SB-19 (9-10)**	Solid	05/19/14 08:50	05/23/14 15:48
5098316003	**SB-13 (1-2)**	Solid	05/19/14 09:25	05/23/14 15:48
5098316004	**SB-14 (0-2)**	Solid	05/19/14 10:05	05/23/14 15:48
5098316005	**SB-2 (0-2)**	Solid	05/19/14 10:30	05/23/14 15:48
5098316006	**SB-25 (0-2)**	Solid	05/19/14 11:30	05/23/14 15:48
5098316007	**SB-25 (8-10)**	Solid	05/19/14 11:35	05/23/14 15:48
5098316008	**SB-1 (2-4)**	Solid	05/19/14 13:15	05/23/14 15:48
5098316009	**SB-8 (1-3)**	Solid	05/19/14 13:45	05/23/14 15:48
5098316010	**SB-22 (1-3)**	Solid	05/19/14 14:10	05/23/14 15:48
5098316011	**SB-9 (0-2)**	Solid	05/19/14 14:25	05/23/14 15:48
5098316012	**SB-26 (1-3)**	Solid	05/20/14 07:40	05/23/14 15:48
5098316013	**SB-27 (0-2)**	Solid	05/20/14 08:30	05/23/14 15:48
5098316014	**SB-16 (4-6)**	Solid	05/20/14 09:25	05/23/14 15:48
5098316015	**SB-16 (4-6) DUP**	Solid	05/20/14 09:25	05/23/14 15:48
5098316016	**SB-17 (0-2)**	Solid	05/20/14 10:00	05/23/14 15:48
5098316017	**SB-12 (0-2)**	Solid	05/20/14 11:55	05/23/14 15:48
5098316018	**SB-12 (0-2) DUP**	Solid	05/20/14 11:55	05/23/14 15:48
5098316019	**SB-12 (6-7)**	Solid	05/20/14 12:00	05/23/14 15:48
5098316020	**SB-18 (4-6)**	Solid	05/20/14 13:50	05/23/14 15:48
5098316021	**SB-10 (0-2)**	Solid	05/20/14 14:35	05/23/14 15:48
5098316022	**SB-15 (7-8)**	Solid	05/20/14 15:05	05/23/14 15:48
5098316023	**SB-20 (0-2)**	Solid	05/20/14 15:35	05/23/14 15:48
5098316024	**SB-6 (1-3)**	Solid	05/21/14 08:15	05/23/14 15:48
5098316025	**SB-24 (0-2)**	Solid	05/21/14 08:45	05/23/14 15:48
5098316026	**SB-5 (0-2)**	Solid	05/21/14 09:10	05/23/14 15:48
5098316027	**SB-5 (0-2) DUP**	Solid	05/21/14 09:10	05/23/14 15:48
5098316028	**SB-21 (2-4)**	Solid	05/21/14 09:30	05/23/14 15:48
5098316029	**SB-7 (4-6)**	Solid	05/21/14 10:25	05/23/14 15:48
5098316030	**SB-23 (1-4)**	Solid	05/21/14 11:25	05/23/14 15:48
5098316031	**SB-23 (1-4) DUP**	Solid	05/21/14 11:25	05/23/14 15:48
5098316032	**SB-4 (0-2)**	Solid	05/21/14 13:25	05/23/14 15:48
5098316033	**SB-3 (1-3)**	Solid	05/21/14 14:05	05/23/14 15:48
5098316034	**SB-11 (0-2)**	Solid	05/21/14 14:35	05/23/14 15:48
5098316035	**SB-8 (1-3) DUP**	Solid	05/19/14 13:45	05/23/14 15:48
5098316036	**SB-14 (0-2) DUP**	Solid	05/19/14 10:05	05/23/14 15:48

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5098316001	**SB-19 (9-10)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316003	**SB-13 (1-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316004	**SB-14 (0-2)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316005	**SB-2 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316006	**SB-25 (0-2)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
5098316007	**SB-25 (8-10)**	EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316008	**SB-1 (2-4)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316009	**SB-8 (1-3)**	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316010	**SB-22 (1-3)**	EPA 8151	SPP1	4	PASI-N

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316011	**SB-9 (0-2)**	EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316012	**SB-26 (1-3)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316013	**SB-27 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316014	**SB-16 (4-6)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316015	**SB-16 (4-6) DUP**	EPA 8151	SPP1	4	PASI-N
		ASTM D2974-87	MLS	1	PASI-I
5098316016	**SB-17 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316017	**SB-12 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316018	**SB-12 (0-2) DUP**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	MLS	1	PASI-I
5098316019	**SB-12 (6-7)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316020	**SB-18 (4-6)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316021	**SB-10 (0-2)**	EPA 8082	DMT	8	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316022	**SB-15 (7-8)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316023	**SB-20 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316024	**SB-6 (1-3)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316025	**SB-24 (0-2)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316026	**SB-5 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316027	**SB-5 (0-2) DUP**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316028	**SB-21 (2-4)**	EPA 6010	FRW	13	PASI-I

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316029	**SB-7 (4-6)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316030	**SB-23 (1-4)**	EPA 8151	SPP1	4	PASI-N
		EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316031	**SB-23 (1-4) DUP**	EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	CEM	66	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316032	**SB-4 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316033	**SB-3 (1-3)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316034	**SB-11 (0-2)**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		ASTM D2974-87	SLB	1	PASI-I
5098316035	**SB-8 (1-3) DUP**	EPA 8082	DMT	8	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5098316036	**SB-14 (0-2) DUP**	EPA 6010	FRW	13	PASI-I
		EPA 7471	FRW	1	PASI-I
		ASTM D2974-87	MLS	1	PASI-I

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-19 (9-10) **Lab ID: 5098316001** Collected: 05/19/14 08:50 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-36-0	
Arsenic	**15.8**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-38-2	
Barium	**316**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-39-3	
Beryllium	**1.9**	mg/kg	0.56	1	05/30/14 09:25	06/01/14 20:23	7440-41-7	
Cadmium	**0.78**	mg/kg	0.56	1	05/30/14 09:25	06/01/14 20:23	7440-43-9	
Chromium	**11.5**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-47-3	
Copper	**32.9**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-50-8	
Lead	**43.9**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7439-92-1	
Nickel	**20.7**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/30/14 09:25	06/01/14 20:23	7440-22-4	
Thallium	**2.4**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-28-0	
Zinc	**174**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:23	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.24	1	06/10/14 11:38	06/10/14 14:03	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.027**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	83-32-9	
Acenaphthylene	**0.024**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	208-96-8	
Anthracene	**0.11**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	120-12-7	
Benzo(a)anthracene	**0.27**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	56-55-3	
Benzo(a)pyrene	**0.37**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	50-32-8	
Benzo(b)fluoranthene	**0.36**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	205-99-2	
Benzo(g,h,i)perylene	**0.26**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	191-24-2	
Benzo(k)fluoranthene	**0.34**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	207-08-9	
Chrysene	**0.32**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	218-01-9	
Dibenz(a,h)anthracene	**0.12**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	53-70-3	
Fluoranthene	**0.52**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	206-44-0	
Fluorene	**0.043**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.23**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	193-39-5	
1-Methylnaphthalene	**0.064**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	90-12-0	N2
2-Methylnaphthalene	**0.065**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	91-57-6	
Naphthalene	**0.044**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	91-20-3	
Phenanthrene	**0.43**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	85-01-8	
Pyrene	**0.46**	mg/kg	0.0062	1	05/29/14 13:05	05/30/14 05:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	38-110	1	05/29/14 13:05	05/30/14 05:57	321-60-8	
p-Terphenyl-d14 (S)	63	%.	32-111	1	05/29/14 13:05	05/30/14 05:57	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.4**	%	0.10	1		06/02/14 12:54		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-13 (1-2) **Lab ID: 5098316003** Collected: 05/19/14 09:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-36-0	
Arsenic	**4.3**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-38-2	
Barium	**60.1**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-39-3	
Beryllium	ND	mg/kg	0.55	1	05/30/14 09:25	06/01/14 20:25	7440-41-7	
Cadmium	ND	mg/kg	0.55	1	05/30/14 09:25	06/01/14 20:25	7440-43-9	
Chromium	**18.3**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-47-3	
Copper	**11.4**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-50-8	
Lead	**11.1**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7439-92-1	
Nickel	**11.4**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/30/14 09:25	06/01/14 20:25	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-28-0	
Zinc	**36.8**	mg/kg	1.1	1	05/30/14 09:25	06/01/14 20:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:05	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	91-20-3	
Phenanthrene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	05/29/14 13:05	05/30/14 06:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	38-110	1	05/29/14 13:05	05/30/14 06:15	321-60-8	
p-Terphenyl-d14 (S)	69	%.	32-111	1	05/29/14 13:05	05/30/14 06:15	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.3**	%	0.10	1		06/02/14 12:54		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-14 (0-2) **Lab ID: 5098316004** Collected: 05/19/14 10:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	80.5	1	05/29/14 12:30	05/30/14 17:23	94-75-7	
2,4,5-T	ND	ug/kg	80.5	1	05/29/14 12:30	05/30/14 17:23	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	80.5	1	05/29/14 12:30	05/30/14 17:23	93-72-1	
Surrogates								
2,4-DCAA (S)	66	%.	10-161	1	05/29/14 12:30	05/30/14 17:23	19719-28-9	
2,4-DCAA (S)	82	%.	10-161	1	05/29/14 12:30	05/30/14 17:23	19719-28-9	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-36-0	
Arsenic	**12.9**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-38-2	
Barium	**89.1**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-39-3	
Beryllium	**0.70**	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:09	7440-41-7	
Cadmium	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:09	7440-43-9	
Chromium	**31.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-47-3	
Copper	**14.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-50-8	
Lead	**18.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7439-92-1	
Nickel	**17.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7782-49-2	
Silver	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:09	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-28-0	
Zinc	**62.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:09	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.24	1	06/10/14 11:38	06/10/14 14:07	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	83-32-9	
Acenaphthylene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	208-96-8	
Anthracene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	56-55-3	
Benzo(a)pyrene	**0.032**	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	207-08-9	
Chrysene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	53-70-3	
Fluoranthene	**0.050**	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	206-44-0	
Fluorene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	91-57-6	
Naphthalene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	91-20-3	1d
Phenanthrene	ND	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	85-01-8	
Pyrene	**0.040**	mg/kg	0.030	5	05/29/14 13:05	05/30/14 06:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	53	%.	38-110	5	05/29/14 13:05	05/30/14 06:33	321-60-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-14 (0-2) **Lab ID: 5098316004** Collected: 05/19/14 10:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	56	%.	32-111	5	05/29/14 13:05	05/30/14 06:33	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	83-32-9	
Acenaphthylene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	208-96-8	
Anthracene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.21	1	06/02/14 14:08	06/09/14 23:28	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	207-08-9	
Benzyl alcohol	ND	mg/kg	0.81	1	06/02/14 14:08	06/09/14 23:28	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.81	1	06/02/14 14:08	06/09/14 23:28	59-50-7	
4-Chloroaniline	ND	mg/kg	0.81	1	06/02/14 14:08	06/09/14 23:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	91-58-7	
2-Chlorophenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	7005-72-3	
Chrysene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.21	1	06/02/14 14:08	06/09/14 23:28	53-70-3	
Dibenzofuran	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	0.81	1	06/02/14 14:08	06/09/14 23:28	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	120-83-2	
Diethylphthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	105-67-9	
Dimethylphthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	117-81-7	
Fluoranthene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	206-44-0	
Fluorene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	77-47-4	
Hexachloroethane	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-14 (0-2) **Lab ID: 5098316004** Collected: 05/19/14 10:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.81	1	06/02/14 14:08	06/09/14 23:28		
Naphthalene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	91-20-3	
2-Nitroaniline	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	88-74-4	
3-Nitroaniline	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	99-09-2	
4-Nitroaniline	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	100-01-6	
Nitrobenzene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	98-95-3	
2-Nitrophenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	88-75-5	
4-Nitrophenol	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	86-30-6	
Pentachlorophenol	ND	mg/kg	2.0	1	06/02/14 14:08	06/09/14 23:28	87-86-5	
Phenanthrene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	85-01-8	
Phenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	108-95-2	
Pyrene	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.40	1	06/02/14 14:08	06/09/14 23:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%.	28-101	1	06/02/14 14:08	06/09/14 23:28	4165-60-0	
2-Fluorobiphenyl (S)	62	%.	31-94	1	06/02/14 14:08	06/09/14 23:28	321-60-8	
p-Terphenyl-d14 (S)	74	%.	26-110	1	06/02/14 14:08	06/09/14 23:28	1718-51-0	
Phenol-d5 (S)	63	%.	28-101	1	06/02/14 14:08	06/09/14 23:28	4165-62-2	
2-Fluorophenol (S)	61	%.	24-104	1	06/02/14 14:08	06/09/14 23:28	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	16-122	1	06/02/14 14:08	06/09/14 23:28	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.7**	%	0.10	1		06/02/14 12:54		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-2 (0-2) **Lab ID: 5098316005** Collected: 05/19/14 10:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-36-0	
Arsenic	**10.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-38-2	
Barium	**76.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-39-3	
Beryllium	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:11	7440-41-7	
Cadmium	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:11	7440-43-9	
Chromium	**12.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-47-3	
Copper	**10.1**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-50-8	
Lead	**15.0**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7439-92-1	
Nickel	**8.8**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7782-49-2	
Silver	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:11	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-28-0	
Zinc	**17.6**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:11	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.26	1	06/10/14 11:38	06/10/14 14:09	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.24**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	83-32-9	
Acenaphthylene	ND	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	208-96-8	
Anthracene	**0.43**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	120-12-7	
Benzo(a)anthracene	**0.78**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	56-55-3	
Benzo(a)pyrene	**0.84**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	50-32-8	
Benzo(b)fluoranthene	**0.74**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	205-99-2	
Benzo(g,h,i)perylene	**0.58**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	191-24-2	
Benzo(k)fluoranthene	**0.70**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	207-08-9	
Chrysene	**0.88**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	218-01-9	
Dibenz(a,h)anthracene	**0.21**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	53-70-3	
Fluoranthene	**1.9**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	206-44-0	
Fluorene	**0.17**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.48**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	193-39-5	
1-Methylnaphthalene	**0.011**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	90-12-0	N2
2-Methylnaphthalene	**0.013**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	91-57-6	
Naphthalene	ND	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	91-20-3	
Phenanthrene	**1.8**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	85-01-8	
Pyrene	**2.0**	mg/kg	0.0061	1	05/29/14 13:05	05/30/14 06:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%.	38-110	1	05/29/14 13:05	05/30/14 06:51	321-60-8	
p-Terphenyl-d14 (S)	73	%.	32-111	1	05/29/14 13:05	05/30/14 06:51	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.3**	%	0.10	1		06/02/14 12:54		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-25 (0-2) **Lab ID: 5098316006** Collected: 05/19/14 11:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	73.1	1	05/29/14 12:30	05/30/14 18:59	94-75-7	
2,4,5-T	ND	ug/kg	73.1	1	05/29/14 12:30	05/30/14 18:59	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	73.1	1	05/29/14 12:30	05/30/14 18:59	93-72-1	
Surrogates								
2,4-DCAA (S)	91	%.	10-161	1	05/29/14 12:30	05/30/14 18:59	19719-28-9	
2,4-DCAA (S)	104	%.	10-161	1	05/29/14 12:30	05/30/14 18:59	19719-28-9	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-36-0	
Arsenic	**3.8**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-38-2	
Barium	**69.1**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-39-3	
Beryllium	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:13	7440-41-7	
Cadmium	**0.77**	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:13	7440-43-9	
Chromium	**8.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-47-3	
Copper	**13.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-50-8	
Lead	**50.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7439-92-1	
Nickel	**9.2**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:13	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-28-0	
Zinc	**81.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:13	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:11	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	83-32-9	
Acenaphthylene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	208-96-8	
Anthracene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	50-32-8	
Benzo(b)fluoranthene	**0.0058**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	207-08-9	
Chrysene	**0.0064**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	53-70-3	
Fluoranthene	**0.0087**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	206-44-0	
Fluorene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	91-57-6	
Naphthalene	ND	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	91-20-3	
Phenanthrene	**0.010**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	85-01-8	
Pyrene	**0.0070**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 15:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	38-110	1	05/30/14 11:00	05/31/14 15:25	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-25 (0-2) **Lab ID: 5098316006** Collected: 05/19/14 11:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	62	%.	32-111	1	05/30/14 11:00	05/31/14 15:25	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	83-32-9	
Acenaphthylene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	208-96-8	
Anthracene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	120-12-7	
Benzo(a)anthracene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.96	5	06/02/14 14:08	06/09/14 23:50	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	207-08-9	
Benzyl alcohol	ND	mg/kg	3.7	5	06/02/14 14:08	06/09/14 23:50	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	101-55-3	
Butylbenzylphthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	3.7	5	06/02/14 14:08	06/09/14 23:50	59-50-7	
4-Chloroaniline	ND	mg/kg	3.7	5	06/02/14 14:08	06/09/14 23:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	108-60-1	
2-Chloronaphthalene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	91-58-7	
2-Chlorophenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	7005-72-3	
Chrysene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.96	5	06/02/14 14:08	06/09/14 23:50	53-70-3	
Dibenzofuran	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	3.7	5	06/02/14 14:08	06/09/14 23:50	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	120-83-2	
Diethylphthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	105-67-9	
Dimethylphthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	131-11-3	
Di-n-butylphthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	606-20-2	
Di-n-octylphthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	117-81-7	
Fluoranthene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	206-44-0	
Fluorene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	87-68-3	
Hexachlorobenzene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	77-47-4	
Hexachloroethane	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-25 (0-2) **Lab ID: 5098316006** Collected: 05/19/14 11:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	78-59-1	
2-Methylnaphthalene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	3.7	5	06/02/14 14:08	06/09/14 23:50		
Naphthalene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	91-20-3	
2-Nitroaniline	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	88-74-4	
3-Nitroaniline	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	99-09-2	
4-Nitroaniline	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	100-01-6	
Nitrobenzene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	98-95-3	
2-Nitrophenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	88-75-5	
4-Nitrophenol	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	86-30-6	
Pentachlorophenol	ND	mg/kg	9.0	5	06/02/14 14:08	06/09/14 23:50	87-86-5	
Phenanthrene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	85-01-8	
Phenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	108-95-2	6d
Pyrene	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	1.9	5	06/02/14 14:08	06/09/14 23:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81	%.	28-101	5	06/02/14 14:08	06/09/14 23:50	4165-60-0	
2-Fluorobiphenyl (S)	87	%.	31-94	5	06/02/14 14:08	06/09/14 23:50	321-60-8	
p-Terphenyl-d14 (S)	101	%.	26-110	5	06/02/14 14:08	06/09/14 23:50	1718-51-0	
Phenol-d5 (S)	87	%.	28-101	5	06/02/14 14:08	06/09/14 23:50	4165-62-2	
2-Fluorophenol (S)	85	%.	24-104	5	06/02/14 14:08	06/09/14 23:50	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	16-122	5	06/02/14 14:08	06/09/14 23:50	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.8**	%	0.10	1		06/03/14 15:45		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-25 (8-10) **Lab ID: 5098316007** Collected: 05/19/14 11:35 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	83-32-9	
Acenaphthylene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	208-96-8	
Anthracene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	207-08-9	
Chrysene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	53-70-3	
Fluoranthene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	206-44-0	
Fluorene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	91-57-6	
Naphthalene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	91-20-3	
Phenanthrene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	85-01-8	
Pyrene	ND	mg/kg	0.0067	1	05/30/14 11:00	05/31/14 15:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	38-110	1	05/30/14 11:00	05/31/14 15:43	321-60-8	
p-Terphenyl-d14 (S)	43	%.	32-111	1	05/30/14 11:00	05/31/14 15:43	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.3**	%	0.10	1		06/02/14 13:59		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-1 (2-4) **Lab ID: 5098316008** Collected: 05/19/14 13:15 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-36-0	
Arsenic	**10.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-38-2	
Barium	**89.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-39-3	
Beryllium	**1.4**	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:15	7440-41-7	
Cadmium	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:15	7440-43-9	
Chromium	**26.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-47-3	
Copper	**11.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-50-8	
Lead	**16.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7439-92-1	
Nickel	**21.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:15	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-28-0	
Zinc	**45.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:15	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/10/14 11:38	06/10/14 14:13	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	83-32-9	
Acenaphthylene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	208-96-8	
Anthracene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	56-55-3	
Benzo(a)pyrene	**0.0073**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	50-32-8	
Benzo(b)fluoranthene	**0.0085**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	205-99-2	
Benzo(g,h,i)perylene	**0.0095**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	191-24-2	
Benzo(k)fluoranthene	**0.0086**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	207-08-9	
Chrysene	**0.0080**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	53-70-3	
Fluoranthene	**0.014**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	206-44-0	
Fluorene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0074**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	91-57-6	
Naphthalene	ND	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	91-20-3	
Phenanthrene	**0.0086**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	85-01-8	
Pyrene	**0.011**	mg/kg	0.0063	1	05/30/14 11:00	05/31/14 16:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	38-110	1	05/30/14 11:00	05/31/14 16:01	321-60-8	
p-Terphenyl-d14 (S)	62	%.	32-111	1	05/30/14 11:00	05/31/14 16:01	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.2**	%	0.10	1		06/02/14 13:59		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-8 (1-3) **Lab ID: 5098316009** Collected: 05/19/14 13:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:00	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	63	%.	30-106	1	05/29/14 11:15	05/30/14 22:00	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-36-0	
Arsenic	**11.5**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-38-2	
Barium	**316**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-39-3	
Beryllium	**2.2**	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:18	7440-41-7	
Cadmium	**11.4**	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:18	7440-43-9	
Chromium	**12.3**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-47-3	
Copper	**94.6**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-50-8	
Lead	**98.3**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7439-92-1	
Nickel	**26.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7782-49-2	
Silver	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:18	7440-22-4	
Thallium	**1.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-28-0	
Zinc	**390**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:18	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.24	1	06/10/14 11:38	06/10/14 14:15	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	83-32-9	
Acenaphthylene	**0.0086**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	208-96-8	
Anthracene	**0.0071**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	120-12-7	
Benzo(a)anthracene	**0.015**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	56-55-3	
Benzo(a)pyrene	**0.020**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	50-32-8	
Benzo(b)fluoranthene	**0.023**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	205-99-2	
Benzo(g,h,i)perylene	**0.026**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	191-24-2	
Benzo(k)fluoranthene	**0.022**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	207-08-9	
Chrysene	**0.020**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	218-01-9	
Dibenz(a,h)anthracene	**0.0078**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	53-70-3	
Fluoranthene	**0.029**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	206-44-0	
Fluorene	ND	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.019**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	193-39-5	
1-Methylnaphthalene	**0.044**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	90-12-0	N2
2-Methylnaphthalene	**0.086**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	91-57-6	
Naphthalene	**0.031**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	91-20-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-8 (1-3) **Lab ID: 5098316009** Collected: 05/19/14 13:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Phenanthrene	**0.027**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	85-01-8	
Pyrene	**0.027**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 16:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	38-110	1	05/30/14 11:00	05/31/14 16:56	321-60-8	
p-Terphenyl-d14 (S)	65	%.	32-111	1	05/30/14 11:00	05/31/14 16:56	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	83-32-9	
Acenaphthylene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	208-96-8	
Anthracene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.21	1	05/28/14 12:12	05/29/14 20:51	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	207-08-9	
Benzyl alcohol	ND	mg/kg	0.80	1	05/28/14 12:12	05/29/14 20:51	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.80	1	05/28/14 12:12	05/29/14 20:51	59-50-7	
4-Chloroaniline	ND	mg/kg	0.80	1	05/28/14 12:12	05/29/14 20:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	91-58-7	
2-Chlorophenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	7005-72-3	
Chrysene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.21	1	05/28/14 12:12	05/29/14 20:51	53-70-3	
Dibenzofuran	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	0.80	1	05/28/14 12:12	05/29/14 20:51	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	120-83-2	
Diethylphthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	105-67-9	
Dimethylphthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	117-81-7	
Fluoranthene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	206-44-0	
Fluorene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	118-74-1	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-8 (1-3) **Lab ID: 5098316009** Collected: 05/19/14 13:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Hexachlorocyclopentadiene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	77-47-4	
Hexachloroethane	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	193-39-5	
Isophorone	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.80	1	05/28/14 12:12	05/29/14 20:51		
Naphthalene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	99-09-2	
4-Nitroaniline	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	100-01-6	
Nitrobenzene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	98-95-3	
2-Nitrophenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	86-30-6	
Pentachlorophenol	ND	mg/kg	1.9	1	05/28/14 12:12	05/29/14 20:51	87-86-5	
Phenanthrene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	85-01-8	
Phenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	108-95-2	
Pyrene	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.40	1	05/28/14 12:12	05/29/14 20:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	47	%.	28-101	1	05/28/14 12:12	05/29/14 20:51	4165-60-0	
2-Fluorobiphenyl (S)	51	%.	31-94	1	05/28/14 12:12	05/29/14 20:51	321-60-8	
p-Terphenyl-d14 (S)	36	%.	26-110	1	05/28/14 12:12	05/29/14 20:51	1718-51-0	
Phenol-d5 (S)	37	%.	28-101	1	05/28/14 12:12	05/29/14 20:51	4165-62-2	
2-Fluorophenol (S)	39	%.	24-104	1	05/28/14 12:12	05/29/14 20:51	367-12-4	
2,4,6-Tribromophenol (S)	29	%.	16-122	1	05/28/14 12:12	05/29/14 20:51	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.3**	%	0.10	1		06/02/14 13:59		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-22 (1-3) **Lab ID: 5098316010** Collected: 05/19/14 14:10 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	**114**	ug/kg	78.6	1	05/29/14 12:30	05/30/14 18:11	94-75-7	C2,R1
2,4,5-T	ND	ug/kg	78.6	1	05/29/14 12:30	05/30/14 18:11	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	78.6	1	05/29/14 12:30	05/30/14 18:11	93-72-1	M1
Surrogates								
2,4-DCAA (S)	94	%.	10-161	1	05/29/14 12:30	05/30/14 18:11	19719-28-9	
2,4-DCAA (S)	247	%.	10-161	1	05/29/14 12:30	05/30/14 18:11	19719-28-9	S5
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-36-0	
Arsenic	**30.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-38-2	
Barium	**112**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-39-3	
Beryllium	**0.95**	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:20	7440-41-7	
Cadmium	**0.93**	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:20	7440-43-9	
Chromium	**8.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-47-3	
Copper	**25.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-50-8	
Lead	**32.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7439-92-1	
Nickel	**24.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:20	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-28-0	
Zinc	**145**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:20	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/10/14 11:38	06/10/14 14:26	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	83-32-9	
Acenaphthylene	**0.25**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	208-96-8	
Anthracene	**0.33**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	120-12-7	
Benzo(a)anthracene	**0.76**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	56-55-3	
Benzo(a)pyrene	**0.92**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	50-32-8	
Benzo(b)fluoranthene	**1.2**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	205-99-2	
Benzo(g,h,i)perylene	**0.63**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	191-24-2	
Benzo(k)fluoranthene	**1.1**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	207-08-9	
Chrysene	**1.1**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	218-01-9	
Dibenz(a,h)anthracene	**0.29**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	53-70-3	
Fluoranthene	**1.3**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	206-44-0	
Fluorene	**0.054**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.56**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	193-39-5	
1-Methylnaphthalene	**0.27**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	90-12-0	N2
2-Methylnaphthalene	**0.32**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	91-57-6	
Naphthalene	**0.56**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	91-20-3	3d
Phenanthrene	**1.0**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	85-01-8	
Pyrene	**1.1**	mg/kg	0.044	5	06/02/14 12:30	06/03/14 04:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%.	38-110	5	06/02/14 12:30	06/03/14 04:09	321-60-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-22 (1-3) **Lab ID: 5098316010** Collected: 05/19/14 14:10 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	91	%.	32-111	5	06/02/14 12:30	06/03/14 04:09	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	83-32-9	
Acenaphthylene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	208-96-8	
Anthracene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	56-55-3	
Benzo(a)pyrene	**0.22**	mg/kg	0.20	1	06/02/14 14:08	06/10/14 09:21	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	207-08-9	
Benzyl alcohol	ND	mg/kg	0.79	1	06/02/14 14:08	06/10/14 09:21	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.79	1	06/02/14 14:08	06/10/14 09:21	59-50-7	
4-Chloroaniline	ND	mg/kg	0.79	1	06/02/14 14:08	06/10/14 09:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	91-58-7	
2-Chlorophenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	7005-72-3	
Chrysene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.20	1	06/02/14 14:08	06/10/14 09:21	53-70-3	
Dibenzofuran	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	0.79	1	06/02/14 14:08	06/10/14 09:21	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	120-83-2	
Diethylphthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	105-67-9	
Dimethylphthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	117-81-7	
Fluoranthene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	206-44-0	
Fluorene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	77-47-4	
Hexachloroethane	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-22 (1-3) **Lab ID: 5098316010** Collected: 05/19/14 14:10 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.79	1	06/02/14 14:08	06/10/14 09:21		
Naphthalene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	91-20-3	
2-Nitroaniline	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	88-74-4	
3-Nitroaniline	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	99-09-2	
4-Nitroaniline	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	100-01-6	
Nitrobenzene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	98-95-3	
2-Nitrophenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	88-75-5	
4-Nitrophenol	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	86-30-6	
Pentachlorophenol	ND	mg/kg	1.9	1	06/02/14 14:08	06/10/14 09:21	87-86-5	
Phenanthrene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	85-01-8	
Phenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	108-95-2	
Pyrene	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.39	1	06/02/14 14:08	06/10/14 09:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	55	%.	28-101	1	06/02/14 14:08	06/10/14 09:21	4165-60-0	
2-Fluorobiphenyl (S)	54	%.	31-94	1	06/02/14 14:08	06/10/14 09:21	321-60-8	
p-Terphenyl-d14 (S)	72	%.	26-110	1	06/02/14 14:08	06/10/14 09:21	1718-51-0	
Phenol-d5 (S)	53	%.	28-101	1	06/02/14 14:08	06/10/14 09:21	4165-62-2	
2-Fluorophenol (S)	49	%.	24-104	1	06/02/14 14:08	06/10/14 09:21	367-12-4	
2,4,6-Tribromophenol (S)	51	%.	16-122	1	06/02/14 14:08	06/10/14 09:21	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.6**	%	0.10	1		06/02/14 14:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-9 (0-2) **Lab ID: 5098316011** Collected: 05/19/14 14:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/kg	0.54	5	05/29/14 11:15	05/30/14 22:17	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	61	%.	30-106	5	05/29/14 11:15	05/30/14 22:17	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-36-0	
Arsenic	**4.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-38-2	
Barium	**85.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-39-3	
Beryllium	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:22	7440-41-7	
Cadmium	**8.5**	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:22	7440-43-9	
Chromium	**10.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-47-3	
Copper	**25.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-50-8	
Lead	**44.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7439-92-1	
Nickel	**8.2**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:22	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-28-0	
Zinc	**200**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:22	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	06/10/14 11:38	06/10/14 14:28	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.34**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	83-32-9	
Acenaphthylene	**0.14**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	208-96-8	
Anthracene	**0.89**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	120-12-7	
Benzo(a)anthracene	**3.3**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	56-55-3	
Benzo(a)pyrene	**2.8**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	50-32-8	
Benzo(b)fluoranthene	**3.2**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	205-99-2	
Benzo(g,h,i)perylene	**2.2**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	191-24-2	
Benzo(k)fluoranthene	**3.6**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	207-08-9	
Chrysene	**4.1**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	218-01-9	
Dibenz(a,h)anthracene	**1.1**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	53-70-3	
Fluoranthene	**7.7**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	206-44-0	
Fluorene	**0.13**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**2.1**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	193-39-5	
1-Methylnaphthalene	**0.44**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	90-12-0	N2
2-Methylnaphthalene	**0.34**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	91-57-6	
Naphthalene	**0.51**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	91-20-3	2d

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-9 (0-2) **Lab ID: 5098316011** Collected: 05/19/14 14:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Phenanthrene	**6.4**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	85-01-8	
Pyrene	**5.9**	mg/kg	0.027	5	05/30/14 11:00	05/31/14 17:32	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82	%.	38-110	5	05/30/14 11:00	05/31/14 17:32	321-60-8	
p-Terphenyl-d14 (S)	98	%.	32-111	5	05/30/14 11:00	05/31/14 17:32	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.0**	%	0.10	1		06/02/14 14:00		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-26 (1-3) **Lab ID: 5098316012** Collected: 05/20/14 07:40 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	72.7	1	05/29/14 12:30	05/30/14 19:15	94-75-7	
2,4,5-T	ND	ug/kg	72.7	1	05/29/14 12:30	05/30/14 19:15	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	72.7	1	05/29/14 12:30	05/30/14 19:15	93-72-1	
Surrogates								
2,4-DCAA (S)	100	%.	10-161	1	05/29/14 12:30	05/30/14 19:15	19719-28-9	
2,4-DCAA (S)	133	%.	10-161	1	05/29/14 12:30	05/30/14 19:15	19719-28-9	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-36-0	
Arsenic	**6.9**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-38-2	
Barium	**225**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-39-3	
Beryllium	**1.6**	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:28	7440-41-7	
Cadmium	**0.84**	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:28	7440-43-9	
Chromium	**9.9**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-47-3	
Copper	**30.4**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-50-8	
Lead	**31.5**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7439-92-1	
Nickel	**25.3**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-02-0	
Selenium	ND	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7782-49-2	
Silver	ND	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:28	7440-22-4	
Thallium	**1.6**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-28-0	
Zinc	**99.5**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:28	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:30	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	83-32-9	
Acenaphthylene	**0.15**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	208-96-8	
Anthracene	**0.15**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	120-12-7	
Benzo(a)anthracene	**0.32**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	56-55-3	
Benzo(a)pyrene	**0.36**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	50-32-8	
Benzo(b)fluoranthene	**0.38**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	205-99-2	
Benzo(g,h,i)perylene	**0.25**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	191-24-2	
Benzo(k)fluoranthene	**0.36**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	207-08-9	
Chrysene	**0.49**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	218-01-9	
Dibenz(a,h)anthracene	**0.11**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	53-70-3	
Fluoranthene	**0.78**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	206-44-0	
Fluorene	ND	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.21**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	193-39-5	
1-Methylnaphthalene	**0.18**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	90-12-0	N2
2-Methylnaphthalene	**0.15**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	91-57-6	
Naphthalene	**0.11**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	91-20-3	3d
Phenanthrene	**0.92**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	85-01-8	
Pyrene	**0.64**	mg/kg	0.028	5	06/02/14 12:30	06/03/14 04:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	107	%.	38-110	5	06/02/14 12:30	06/03/14 04:27	321-60-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-26 (1-3) **Lab ID: 5098316012** Collected: 05/20/14 07:40 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	97	%.	32-111	5	06/02/14 12:30	06/03/14 04:27	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.8**	%	0.10	1		06/02/14 14:00		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-27 (0-2) **Lab ID: 5098316013** Collected: 05/20/14 08:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-36-0	
Arsenic	**10.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-38-2	
Barium	**241**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-39-3	
Beryllium	**1.4**	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:30	7440-41-7	
Cadmium	**0.86**	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:30	7440-43-9	
Chromium	**13.0**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-47-3	
Copper	**22.5**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-50-8	
Lead	**44.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7439-92-1	
Nickel	**16.6**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7782-49-2	
Silver	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 13:30	7440-22-4	
Thallium	**1.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-28-0	
Zinc	**79.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:30	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/10/14 11:38	06/10/14 14:32	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.13**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	83-32-9	
Acenaphthylene	**0.070**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	208-96-8	
Anthracene	**0.41**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	120-12-7	
Benzo(a)anthracene	**0.90**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	56-55-3	
Benzo(a)pyrene	**0.88**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	50-32-8	
Benzo(b)fluoranthene	**0.77**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	205-99-2	
Benzo(g,h,i)perylene	**0.55**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	191-24-2	
Benzo(k)fluoranthene	**0.76**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	207-08-9	
Chrysene	**0.96**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	218-01-9	
Dibenz(a,h)anthracene	**0.22**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	53-70-3	
Fluoranthene	**2.3**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	206-44-0	
Fluorene	**0.13**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.50**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	193-39-5	
1-Methylnaphthalene	**0.069**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	90-12-0	N2
2-Methylnaphthalene	**0.060**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	91-57-6	
Naphthalene	**0.053**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	91-20-3	2d
Phenanthrene	**1.7**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	85-01-8	
Pyrene	**1.9**	mg/kg	0.030	5	05/30/14 11:00	05/31/14 18:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	104	%.	38-110	5	05/30/14 11:00	05/31/14 18:08	321-60-8	
p-Terphenyl-d14 (S)	90	%.	32-111	5	05/30/14 11:00	05/31/14 18:08	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.2**	%	0.10	1		06/02/14 14:00		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-16 (4-6) **Lab ID: 5098316014** Collected: 05/20/14 09:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	827	10	05/29/14 12:30	05/30/14 20:20	94-75-7	D3
2,4,5-T	ND	ug/kg	827	10	05/29/14 12:30	05/30/14 20:20	93-76-5	D3
2,4,5-TP (Silvex)	ND	ug/kg	827	10	05/29/14 12:30	05/30/14 20:20	93-72-1	D3
Surrogates								
2,4-DCAA (S)	91	%.	10-161	10	05/29/14 12:30	05/30/14 20:20	19719-28-9	
2,4-DCAA (S)	45	%.	10-161	10	05/29/14 12:30	05/30/14 20:20	19719-28-9	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-36-0	
Arsenic	**6.3**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-38-2	
Barium	**493**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-39-3	
Beryllium	**1.5**	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:32	7440-41-7	
Cadmium	**3.1**	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:32	7440-43-9	
Chromium	**8.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-47-3	
Copper	**43.5**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-50-8	
Lead	**76.6**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7439-92-1	
Nickel	**28.0**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7782-49-2	
Silver	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 13:32	7440-22-4	
Thallium	**1.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-28-0	
Zinc	**156**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 13:32	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/10/14 11:38	06/10/14 14:34	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.069**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	83-32-9	
Acenaphthylene	**0.032**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	208-96-8	
Anthracene	**0.18**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	120-12-7	
Benzo(a)anthracene	**0.39**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	56-55-3	
Benzo(a)pyrene	**0.37**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	50-32-8	
Benzo(b)fluoranthene	**0.35**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	205-99-2	
Benzo(g,h,i)perylene	**0.23**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	191-24-2	
Benzo(k)fluoranthene	**0.37**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	207-08-9	
Chrysene	**0.46**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	218-01-9	
Dibenz(a,h)anthracene	**0.099**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	53-70-3	
Fluoranthene	**1.1**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	206-44-0	
Fluorene	**0.061**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.22**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	91-57-6	
Naphthalene	**0.044**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	91-20-3	2d
Phenanthrene	**0.84**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	85-01-8	
Pyrene	**0.84**	mg/kg	0.032	5	05/30/14 11:00	05/31/14 18:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%.	38-110	5	05/30/14 11:00	05/31/14 18:26	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-16 (4-6) **Lab ID: 5098316014** Collected: 05/20/14 09:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	70	%.	32-111	5	05/30/14 11:00	05/31/14 18:26	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	**2.1**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	83-32-9	
Acenaphthylene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	208-96-8	
Anthracene	**3.9**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	120-12-7	
Benzo(a)anthracene	**9.2**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	56-55-3	
Benzo(a)pyrene	**8.2**	mg/kg	1.1	5	05/28/14 12:12	05/29/14 21:37	50-32-8	
Benzo(b)fluoranthene	**6.9**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	205-99-2	
Benzo(g,h,i)perylene	**4.0**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	191-24-2	
Benzo(k)fluoranthene	**10.8**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	207-08-9	
Benzyl alcohol	ND	mg/kg	4.3	5	05/28/14 12:12	05/29/14 21:37	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	101-55-3	
Butylbenzylphthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	4.3	5	05/28/14 12:12	05/29/14 21:37	59-50-7	
4-Chloroaniline	ND	mg/kg	4.3	5	05/28/14 12:12	05/29/14 21:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	108-60-1	
2-Chloronaphthalene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	91-58-7	
2-Chlorophenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	7005-72-3	
Chrysene	**10.2**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	1.1	5	05/28/14 12:12	05/29/14 21:37	53-70-3	
Dibenzofuran	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	4.3	5	05/28/14 12:12	05/29/14 21:37	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	120-83-2	
Diethylphthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	105-67-9	
Dimethylphthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	131-11-3	
Di-n-butylphthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	606-20-2	
Di-n-octylphthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	117-81-7	
Fluoranthene	**27.0**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	206-44-0	
Fluorene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	87-68-3	
Hexachlorobenzene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	77-47-4	
Hexachloroethane	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	67-72-1	
Indeno(1,2,3-cd)pyrene	**3.8**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-16 (4-6) **Lab ID: 5098316014** Collected: 05/20/14 09:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	78-59-1	
2-Methylnaphthalene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	4.3	5	05/28/14 12:12	05/29/14 21:37		
Naphthalene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	91-20-3	
2-Nitroaniline	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	88-74-4	
3-Nitroaniline	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	99-09-2	
4-Nitroaniline	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	100-01-6	
Nitrobenzene	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	98-95-3	
2-Nitrophenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	88-75-5	
4-Nitrophenol	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	86-30-6	
Pentachlorophenol	ND	mg/kg	10.4	5	05/28/14 12:12	05/29/14 21:37	87-86-5	
Phenanthrene	**22.9**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	85-01-8	
Phenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	108-95-2	
Pyrene	**21.4**	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	2.1	5	05/28/14 12:12	05/29/14 21:37	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%.	28-101	5	05/28/14 12:12	05/29/14 21:37	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	31-94	5	05/28/14 12:12	05/29/14 21:37	321-60-8	
p-Terphenyl-d14 (S)	79	%.	26-110	5	05/28/14 12:12	05/29/14 21:37	1718-51-0	
Phenol-d5 (S)	57	%.	28-101	5	05/28/14 12:12	05/29/14 21:37	4165-62-2	
2-Fluorophenol (S)	60	%.	24-104	5	05/28/14 12:12	05/29/14 21:37	367-12-4	
2,4,6-Tribromophenol (S)	38	%.	16-122	5	05/28/14 12:12	05/29/14 21:37	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.2**	%	0.10	1		06/02/14 14:01		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-16 (4-6) DUP **Lab ID: 5098316015** Collected: 05/20/14 09:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	86.6	1	05/29/14 12:30	05/30/14 19:32	94-75-7	
2,4,5-T	ND	ug/kg	86.6	1	05/29/14 12:30	05/30/14 19:32	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	86.6	1	05/29/14 12:30	05/30/14 19:32	93-72-1	
Surrogates								
2,4-DCAA (S)	56	%.	10-161	1	05/29/14 12:30	05/30/14 19:32	19719-28-9	
2,4-DCAA (S)	121	%.	10-161	1	05/29/14 12:30	05/30/14 19:32	19719-28-9	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.2**	%	0.10	1		06/02/14 14:01		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-17 (0-2) **Lab ID: 5098316016** Collected: 05/20/14 10:00 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-36-0	
Arsenic	**14.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-38-2	
Barium	**96.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-39-3	
Beryllium	**0.60**	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:34	7440-41-7	
Cadmium	ND	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:34	7440-43-9	
Chromium	**27.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-47-3	
Copper	**13.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-50-8	
Lead	**16.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7439-92-1	
Nickel	**16.0**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:34	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-28-0	
Zinc	**62.2**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:34	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/10/14 11:38	06/10/14 14:36	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	208-96-8	
Anthracene	**0.0069**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	120-12-7	
Benzo(a)anthracene	**0.020**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	56-55-3	
Benzo(a)pyrene	**0.023**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	50-32-8	
Benzo(b)fluoranthene	**0.022**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	205-99-2	
Benzo(g,h,i)perylene	**0.018**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	191-24-2	
Benzo(k)fluoranthene	**0.023**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	207-08-9	
Chrysene	**0.026**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	218-01-9	
Dibenz(a,h)anthracene	**0.0067**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	53-70-3	
Fluoranthene	**0.042**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.015**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	91-20-3	
Phenanthrene	**0.028**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	85-01-8	
Pyrene	**0.036**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 18:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%.	38-110	1	05/30/14 11:00	05/31/14 18:45	321-60-8	
p-Terphenyl-d14 (S)	66	%.	32-111	1	05/30/14 11:00	05/31/14 18:45	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.8**	%	0.10	1		06/02/14 14:01		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-12 (0-2) **Lab ID: 5098316017** Collected: 05/20/14 11:55 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-36-0	
Arsenic	**7.6**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-38-2	
Barium	**88.6**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-39-3	
Beryllium	**0.50**	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:36	7440-41-7	
Cadmium	ND	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:36	7440-43-9	
Chromium	**17.9**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-47-3	
Copper	**12.3**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-50-8	
Lead	**13.8**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7439-92-1	
Nickel	**11.7**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-02-0	
Selenium	ND	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7782-49-2	
Silver	ND	mg/kg	0.48	1	05/31/14 07:59	06/03/14 13:36	7440-22-4	
Thallium	ND	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-28-0	
Zinc	**36.7**	mg/kg	0.96	1	05/31/14 07:59	06/03/14 13:36	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.24	1	06/10/14 11:38	06/10/14 14:38	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	83-32-9	
Acenaphthylene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	208-96-8	
Anthracene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	207-08-9	
Chrysene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	53-70-3	
Fluoranthene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	206-44-0	
Fluorene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	91-57-6	
Naphthalene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	91-20-3	
Phenanthrene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	85-01-8	
Pyrene	ND	mg/kg	0.0058	1	05/30/14 11:00	05/31/14 19:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	38-110	1	05/30/14 11:00	05/31/14 19:03	321-60-8	
p-Terphenyl-d14 (S)	72	%.	32-111	1	05/30/14 11:00	05/31/14 19:03	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.3**	%	0.10	1		06/02/14 14:01		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-12 (0-2) DUP **Lab ID: 5098316018** Collected: 05/20/14 11:55 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-36-0	
Arsenic	**9.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-38-2	
Barium	**99.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-39-3	
Beryllium	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:38	7440-41-7	
Cadmium	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:38	7440-43-9	
Chromium	**18.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-47-3	
Copper	**13.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-50-8	
Lead	**15.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7439-92-1	
Nickel	**11.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:38	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-28-0	
Zinc	**40.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:38	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:40	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.4**	%	0.10	1		06/02/14 14:02		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-12 (6-7) **Lab ID: 5098316019** Collected: 05/20/14 12:00 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-36-0	
Arsenic	**18.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-38-2	
Barium	**173**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-39-3	
Beryllium	ND	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:40	7440-41-7	
Cadmium	**0.69**	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:40	7440-43-9	
Chromium	**16.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-47-3	
Copper	**54.8**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-50-8	
Lead	**31.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7439-92-1	
Nickel	**12.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/31/14 07:59	06/03/14 13:40	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-28-0	
Zinc	**101**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:40	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:42	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	83-32-9	
Acenaphthylene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	208-96-8	
Anthracene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	120-12-7	
Benzo(a)anthracene	**0.087**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	56-55-3	
Benzo(a)pyrene	**0.096**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	205-99-2	
Benzo(g,h,i)perylene	**0.092**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	191-24-2	
Benzo(k)fluoranthene	**0.12**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	207-08-9	
Chrysene	**0.12**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	218-01-9	
Dibenz(a,h)anthracene	**0.035**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	53-70-3	
Fluoranthene	**0.20**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	206-44-0	
Fluorene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.076**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	90-12-0	N2
2-Methylnaphthalene	**0.028**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	91-57-6	
Naphthalene	ND	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	91-20-3	2d
Phenanthrene	**0.13**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	85-01-8	
Pyrene	**0.19**	mg/kg	0.028	5	05/30/14 11:00	05/31/14 19:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	86	%.	38-110	5	05/30/14 11:00	05/31/14 19:21	321-60-8	
p-Terphenyl-d14 (S)	101	%.	32-111	5	05/30/14 11:00	05/31/14 19:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.4**	%	0.10	1		06/02/14 14:02		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-18 (4-6) **Lab ID: 5098316020** Collected: 05/20/14 13:50 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-36-0	
Arsenic	**8.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-38-2	
Barium	**139**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-39-3	
Beryllium	**0.82**	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:42	7440-41-7	
Cadmium	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:42	7440-43-9	
Chromium	**19.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-47-3	
Copper	**17.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-50-8	
Lead	**46.5**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7439-92-1	
Nickel	**20.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7782-49-2	
Silver	ND	mg/kg	0.53	1	05/31/14 07:59	06/03/14 13:42	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-28-0	
Zinc	**107**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:42	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.22	1	06/10/14 11:38	06/10/14 14:50	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.27**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	83-32-9	
Acenaphthylene	**0.0079**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	208-96-8	
Anthracene	**0.56**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	120-12-7	
Benzo(a)anthracene	**0.94**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	56-55-3	
Benzo(a)pyrene	**0.82**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	50-32-8	
Benzo(b)fluoranthene	**0.77**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	205-99-2	
Benzo(g,h,i)perylene	**0.54**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	191-24-2	
Benzo(k)fluoranthene	**0.76**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	207-08-9	
Chrysene	**1.1**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	218-01-9	
Dibenz(a,h)anthracene	**0.24**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	53-70-3	
Fluoranthene	**3.8**	mg/kg	0.055	10	05/30/14 11:00	06/02/14 13:40	206-44-0	
Fluorene	**0.25**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.49**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	193-39-5	
1-Methylnaphthalene	**0.034**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	90-12-0	N2
2-Methylnaphthalene	**0.048**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	91-57-6	
Naphthalene	**0.080**	mg/kg	0.0055	1	05/30/14 11:00	05/31/14 19:39	91-20-3	
Phenanthrene	**3.1**	mg/kg	0.055	10	05/30/14 11:00	06/02/14 13:40	85-01-8	
Pyrene	**2.8**	mg/kg	0.055	10	05/30/14 11:00	06/02/14 13:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%.	38-110	1	05/30/14 11:00	05/31/14 19:39	321-60-8	
p-Terphenyl-d14 (S)	96	%.	32-111	1	05/30/14 11:00	05/31/14 19:39	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.8**	%	0.10	1		06/02/14 14:03		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-10 (0-2) **Lab ID: 5098316021** Collected: 05/20/14 14:35 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:23	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	67	%.	30-106	1	05/29/14 11:15	05/30/14 22:23	877-09-8	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.4**	%	0.10	1		06/02/14 14:03		

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(317)228-3100

ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-15 (7-8) **Lab ID: 5098316022** Collected: 05/20/14 15:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-36-0	
Arsenic	**10.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-38-2	
Barium	**73.7**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-39-3	
Beryllium	**0.55**	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:59	7440-41-7	
Cadmium	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:59	7440-43-9	
Chromium	**21.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-47-3	
Copper	**12.1**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-50-8	
Lead	**15.2**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7439-92-1	
Nickel	**13.2**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-02-0	
Selenium	ND	mg/kg	2.2	2	05/31/14 07:59	06/03/14 14:23	7782-49-2	D3
Silver	ND	mg/kg	0.55	1	05/31/14 07:59	06/03/14 13:59	7440-22-4	
Thallium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-28-0	
Zinc	**50.6**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 13:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 14:56	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.016**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	208-96-8	
Anthracene	**0.028**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	120-12-7	
Benzo(a)anthracene	**0.046**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	56-55-3	
Benzo(a)pyrene	**0.047**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	50-32-8	
Benzo(b)fluoranthene	**0.038**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	205-99-2	
Benzo(g,h,i)perylene	**0.028**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	191-24-2	
Benzo(k)fluoranthene	**0.040**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	207-08-9	
Chrysene	**0.048**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	218-01-9	
Dibenz(a,h)anthracene	**0.0096**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	53-70-3	
Fluoranthene	**0.14**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	206-44-0	
Fluorene	**0.011**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.023**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	91-20-3	
Phenanthrene	**0.11**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	85-01-8	
Pyrene	**0.11**	mg/kg	0.0060	1	05/30/14 11:00	05/31/14 19:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%.	38-110	1	05/30/14 11:00	05/31/14 19:57	321-60-8	
p-Terphenyl-d14 (S)	67	%.	32-111	1	05/30/14 11:00	05/31/14 19:57	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.1**	%	0.10	1		06/02/14 14:03		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-20 (0-2) **Lab ID: 5098316023** Collected: 05/20/14 15:35 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-36-0	
Arsenic	**3.2**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-38-2	
Barium	**20.0**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-39-3	
Beryllium	ND	mg/kg	0.50	1	05/31/14 07:59	06/03/14 14:01	7440-41-7	
Cadmium	ND	mg/kg	0.50	1	05/31/14 07:59	06/03/14 14:01	7440-43-9	
Chromium	**7.5**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-47-3	
Copper	**5.9**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-50-8	
Lead	**5.3**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7439-92-1	
Nickel	**8.0**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-02-0	
Selenium	ND	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7782-49-2	
Silver	ND	mg/kg	0.50	1	05/31/14 07:59	06/03/14 14:01	7440-22-4	
Thallium	ND	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-28-0	
Zinc	**34.5**	mg/kg	1.0	1	05/31/14 07:59	06/03/14 14:01	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	06/10/14 11:38	06/10/14 14:58	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	208-96-8	
Anthracene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	120-12-7	
Benzo(a)anthracene	**0.029**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	56-55-3	
Benzo(a)pyrene	**0.038**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	50-32-8	
Benzo(b)fluoranthene	**0.040**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	205-99-2	
Benzo(g,h,i)perylene	**0.024**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	191-24-2	
Benzo(k)fluoranthene	**0.032**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	207-08-9	
Chrysene	**0.039**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	218-01-9	
Dibenz(a,h)anthracene	**0.0099**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	53-70-3	
Fluoranthene	**0.052**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	206-44-0	
Fluorene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.021**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	91-57-6	
Naphthalene	ND	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	91-20-3	
Phenanthrene	**0.016**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	85-01-8	
Pyrene	**0.048**	mg/kg	0.0053	1	05/30/14 11:00	05/31/14 20:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82	%.	38-110	1	05/30/14 11:00	05/31/14 20:15	321-60-8	
p-Terphenyl-d14 (S)	81	%.	32-111	1	05/30/14 11:00	05/31/14 20:15	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.4**	%	0.10	1		06/02/14 14:04		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-6 (1-3) **Lab ID: 5098316024** Collected: 05/21/14 08:15 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-36-0	
Arsenic	**6.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-38-2	
Barium	**90.0**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-39-3	
Beryllium	**0.65**	mg/kg	0.60	1	05/31/14 07:59	06/03/14 14:03	7440-41-7	
Cadmium	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 14:03	7440-43-9	
Chromium	**13.1**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-47-3	
Copper	**8.2**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-50-8	
Lead	**16.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7439-92-1	
Nickel	**13.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-02-0	
Selenium	ND	mg/kg	2.4	2	05/31/14 07:59	06/03/14 14:25	7782-49-2	D3
Silver	ND	mg/kg	0.60	1	05/31/14 07:59	06/03/14 14:03	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-28-0	
Zinc	**48.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:03	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/10/14 11:38	06/10/14 15:01	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	83-32-9	
Acenaphthylene	**0.0090**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	208-96-8	
Anthracene	**0.016**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	120-12-7	
Benzo(a)anthracene	**0.033**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	56-55-3	
Benzo(a)pyrene	**0.033**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	50-32-8	
Benzo(b)fluoranthene	**0.035**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	205-99-2	
Benzo(g,h,i)perylene	**0.022**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	191-24-2	
Benzo(k)fluoranthene	**0.039**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	207-08-9	
Chrysene	**0.040**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	218-01-9	
Dibenz(a,h)anthracene	**0.010**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	53-70-3	
Fluoranthene	**0.066**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	206-44-0	
Fluorene	ND	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.021**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	193-39-5	
1-Methylnaphthalene	**0.0099**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	90-12-0	N2
2-Methylnaphthalene	**0.013**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	91-57-6	
Naphthalene	**0.022**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	91-20-3	
Phenanthrene	**0.098**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	85-01-8	
Pyrene	**0.056**	mg/kg	0.0061	1	05/30/14 11:00	05/31/14 20:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	38-110	1	05/30/14 11:00	05/31/14 20:33	321-60-8	
p-Terphenyl-d14 (S)	68	%.	32-111	1	05/30/14 11:00	05/31/14 20:33	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.5**	%	0.10	1		06/02/14 14:04		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-24 (0-2) **Lab ID: 5098316025** Collected: 05/21/14 08:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	75.9	1	05/29/14 12:30	05/30/14 19:48	94-75-7	
2,4,5-T	ND	ug/kg	75.9	1	05/29/14 12:30	05/30/14 19:48	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	75.9	1	05/29/14 12:30	05/30/14 19:48	93-72-1	
Surrogates								
2,4-DCAA (S)	130	%.	10-161	1	05/29/14 12:30	05/30/14 19:48	19719-28-9	
2,4-DCAA (S)	205	%.	10-161	1	05/29/14 12:30	05/30/14 19:48	19719-28-9	S3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**1.4**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-36-0	
Arsenic	**10.3**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-38-2	
Barium	**156**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-39-3	
Beryllium	**0.77**	mg/kg	0.56	1	05/31/14 07:59	06/03/14 14:05	7440-41-7	
Cadmium	**9.0**	mg/kg	0.56	1	05/31/14 07:59	06/03/14 14:05	7440-43-9	
Chromium	**13.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-47-3	
Copper	**139**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-50-8	
Lead	**432**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7439-92-1	
Nickel	**22.1**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/31/14 07:59	06/03/14 14:05	7440-22-4	
Thallium	**1.9**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-28-0	
Zinc	**934**	mg/kg	1.1	1	05/31/14 07:59	06/03/14 14:05	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/03/14 14:03	06/04/14 16:45	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	83-32-9	
Acenaphthylene	**0.086**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	208-96-8	
Anthracene	**0.076**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	120-12-7	
Benzo(a)anthracene	**0.18**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	56-55-3	
Benzo(a)pyrene	**0.20**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	50-32-8	
Benzo(b)fluoranthene	**0.19**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	205-99-2	
Benzo(g,h,i)perylene	**0.17**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	191-24-2	
Benzo(k)fluoranthene	**0.21**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	207-08-9	
Chrysene	**0.24**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	218-01-9	
Dibenz(a,h)anthracene	**0.059**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	53-70-3	
Fluoranthene	**0.38**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	206-44-0	
Fluorene	ND	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.13**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	193-39-5	
1-Methylnaphthalene	**0.070**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	90-12-0	N2
2-Methylnaphthalene	**0.085**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	91-57-6	
Naphthalene	**0.090**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	91-20-3	2d
Phenanthrene	**0.29**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	85-01-8	
Pyrene	**0.33**	mg/kg	0.058	10	05/30/14 11:00	05/31/14 20:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	38-110	10	05/30/14 11:00	05/31/14 20:52	321-60-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-24 (0-2) **Lab ID: 5098316025** Collected: 05/21/14 08:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	72	%.	32-111	10	05/30/14 11:00	05/31/14 20:52	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	83-32-9	
Acenaphthylene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	208-96-8	
Anthracene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.20	1	05/29/14 12:35	05/31/14 05:30	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	207-08-9	
Benzyl alcohol	ND	mg/kg	0.76	1	05/29/14 12:35	05/31/14 05:30	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.76	1	05/29/14 12:35	05/31/14 05:30	59-50-7	
4-Chloroaniline	ND	mg/kg	0.76	1	05/29/14 12:35	05/31/14 05:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	91-58-7	
2-Chlorophenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	7005-72-3	
Chrysene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.20	1	05/29/14 12:35	05/31/14 05:30	53-70-3	
Dibenzofuran	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	0.76	1	05/29/14 12:35	05/31/14 05:30	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	120-83-2	
Diethylphthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	105-67-9	
Dimethylphthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	117-81-7	
Fluoranthene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	206-44-0	
Fluorene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	77-47-4	
Hexachloroethane	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-24 (0-2) **Lab ID: 5098316025** Collected: 05/21/14 08:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.76	1	05/29/14 12:35	05/31/14 05:30		
Naphthalene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	91-20-3	
2-Nitroaniline	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	88-74-4	
3-Nitroaniline	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	99-09-2	
4-Nitroaniline	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	100-01-6	
Nitrobenzene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	98-95-3	
2-Nitrophenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	88-75-5	
4-Nitrophenol	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	86-30-6	
Pentachlorophenol	ND	mg/kg	1.8	1	05/29/14 12:35	05/31/14 05:30	87-86-5	
Phenanthrene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	85-01-8	
Phenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	108-95-2	
Pyrene	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.38	1	05/29/14 12:35	05/31/14 05:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	28-101	1	05/29/14 12:35	05/31/14 05:30	4165-60-0	
2-Fluorobiphenyl (S)	67	%.	31-94	1	05/29/14 12:35	05/31/14 05:30	321-60-8	
p-Terphenyl-d14 (S)	84	%.	26-110	1	05/29/14 12:35	05/31/14 05:30	1718-51-0	
Phenol-d5 (S)	71	%.	28-101	1	05/29/14 12:35	05/31/14 05:30	4165-62-2	
2-Fluorophenol (S)	64	%.	24-104	1	05/29/14 12:35	05/31/14 05:30	367-12-4	
2,4,6-Tribromophenol (S)	73	%.	16-122	1	05/29/14 12:35	05/31/14 05:30	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.1**	%	0.10	1		06/02/14 14:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-5 (0-2) **Lab ID: 5098316026** Collected: 05/21/14 09:10 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-36-0	
Arsenic	**11.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-38-2	
Barium	**100**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-39-3	
Beryllium	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 14:07	7440-41-7	
Cadmium	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 14:07	7440-43-9	
Chromium	**21.3**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-47-3	
Copper	**15.3**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-50-8	
Lead	**14.8**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7439-92-1	
Nickel	**12.4**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7782-49-2	
Silver	ND	mg/kg	0.58	1	05/31/14 07:59	06/03/14 14:07	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-28-0	
Zinc	**46.7**	mg/kg	1.2	1	05/31/14 07:59	06/03/14 14:07	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/03/14 14:03	06/04/14 16:56	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	83-32-9	
Acenaphthylene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	208-96-8	
Anthracene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	120-12-7	
Benzo(a)anthracene	**0.021**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	56-55-3	
Benzo(a)pyrene	**0.024**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	50-32-8	
Benzo(b)fluoranthene	**0.025**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	205-99-2	
Benzo(g,h,i)perylene	**0.018**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	191-24-2	
Benzo(k)fluoranthene	**0.025**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	207-08-9	
Chrysene	**0.027**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	218-01-9	
Dibenz(a,h)anthracene	**0.0070**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	53-70-3	
Fluoranthene	**0.051**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	206-44-0	
Fluorene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.015**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	91-57-6	
Naphthalene	ND	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	91-20-3	
Phenanthrene	**0.029**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	85-01-8	
Pyrene	**0.042**	mg/kg	0.0062	1	05/30/14 11:00	05/31/14 21:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	38-110	1	05/30/14 11:00	05/31/14 21:46	321-60-8	
p-Terphenyl-d14 (S)	73	%.	32-111	1	05/30/14 11:00	05/31/14 21:46	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.9**	%	0.10	1		06/02/14 14:05		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-5 (0-2) DUP **Lab ID: 5098316027** Collected: 05/21/14 09:10 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-36-0	
Arsenic	**11.4**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-38-2	
Barium	**78.1**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-39-3	
Beryllium	ND	mg/kg	0.59	1	05/31/14 07:57	06/03/14 14:27	7440-41-7	
Cadmium	ND	mg/kg	0.59	1	05/31/14 07:57	06/03/14 14:27	7440-43-9	
Chromium	**27.4**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-47-3	
Copper	**16.0**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-50-8	
Lead	**12.4**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7439-92-1	
Nickel	**11.2**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7782-49-2	
Silver	ND	mg/kg	0.59	1	05/31/14 07:57	06/03/14 14:27	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-28-0	
Zinc	**37.1**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:27	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.24	1	06/03/14 14:03	06/04/14 16:58	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.2**	%	0.10	1		06/03/14 11:32		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-21 (2-4) **Lab ID: 5098316028** Collected: 05/21/14 09:30 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-36-0	
Arsenic	**14.9**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-38-2	
Barium	**849**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-39-3	
Beryllium	**2.2**	mg/kg	0.64	1	05/31/14 07:57	06/03/14 14:29	7440-41-7	
Cadmium	**0.66**	mg/kg	0.64	1	05/31/14 07:57	06/03/14 14:29	7440-43-9	
Chromium	**9.8**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-47-3	
Copper	**25.2**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-50-8	
Lead	**23.8**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7439-92-1	
Nickel	**20.5**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-02-0	
Selenium	ND	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7782-49-2	
Silver	ND	mg/kg	0.64	1	05/31/14 07:57	06/03/14 14:29	7440-22-4	
Thallium	**1.9**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-28-0	
Zinc	**57.3**	mg/kg	1.3	1	05/31/14 07:57	06/03/14 14:29	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.27	1	06/03/14 14:03	06/04/14 17:00	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.0079**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	83-32-9	
Acenaphthylene	**0.0087**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	208-96-8	
Anthracene	**0.025**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	120-12-7	
Benzo(a)anthracene	**0.058**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	56-55-3	
Benzo(a)pyrene	**0.056**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	50-32-8	
Benzo(b)fluoranthene	**0.067**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	205-99-2	
Benzo(g,h,i)perylene	**0.044**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	191-24-2	
Benzo(k)fluoranthene	**0.069**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	207-08-9	
Chrysene	**0.078**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	218-01-9	
Dibenz(a,h)anthracene	**0.016**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	53-70-3	
Fluoranthene	**0.17**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	206-44-0	
Fluorene	**0.010**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.038**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	193-39-5	
1-Methylnaphthalene	**0.024**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	90-12-0	N2
2-Methylnaphthalene	**0.023**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	91-57-6	
Naphthalene	**0.035**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	91-20-3	
Phenanthrene	**0.16**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	85-01-8	
Pyrene	**0.13**	mg/kg	0.0066	1	05/30/14 11:00	05/31/14 22:04	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	38-110	1	05/30/14 11:00	05/31/14 22:04	321-60-8	
p-Terphenyl-d14 (S)	64	%.	32-111	1	05/30/14 11:00	05/31/14 22:04	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.8**	%	0.10	1		06/03/14 11:32		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-7 (4-6) **Lab ID: 5098316029** Collected: 05/21/14 10:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-36-0	
Arsenic	**7.3**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-38-2	
Barium	**189**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-39-3	
Beryllium	**1.0**	mg/kg	0.61	1	05/31/14 07:57	06/03/14 14:31	7440-41-7	
Cadmium	ND	mg/kg	0.61	1	05/31/14 07:57	06/03/14 14:31	7440-43-9	
Chromium	**13.2**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-47-3	
Copper	**10.0**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-50-8	
Lead	**26.6**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7439-92-1	
Nickel	**15.4**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-02-0	
Selenium	ND	mg/kg	2.5	2	05/31/14 07:57	06/03/14 15:28	7782-49-2	D3
Silver	ND	mg/kg	0.61	1	05/31/14 07:57	06/03/14 14:31	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-28-0	
Zinc	**40.3**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:31	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/03/14 14:03	06/04/14 17:02	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.022**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	83-32-9	
Acenaphthylene	**0.028**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	208-96-8	
Anthracene	**0.044**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	120-12-7	
Benzo(a)anthracene	**0.064**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	56-55-3	
Benzo(a)pyrene	**0.073**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	205-99-2	
Benzo(g,h,i)perylene	**0.082**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	191-24-2	
Benzo(k)fluoranthene	**0.11**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	207-08-9	
Chrysene	**0.084**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	218-01-9	
Dibenz(a,h)anthracene	**0.023**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	53-70-3	
Fluoranthene	**0.10**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	206-44-0	
Fluorene	**0.027**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.073**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	193-39-5	
1-Methylnaphthalene	**0.067**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	90-12-0	N2
2-Methylnaphthalene	**0.085**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	91-57-6	
Naphthalene	**0.10**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	91-20-3	
Phenanthrene	**0.11**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	85-01-8	
Pyrene	**0.096**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 00:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%.	38-110	1	06/03/14 12:31	06/04/14 00:17	321-60-8	
p-Terphenyl-d14 (S)	60	%.	32-111	1	06/03/14 12:31	06/04/14 00:17	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.7**	%	0.10	1		06/03/14 11:32		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) **Lab ID: 5098316030** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151 Chlorinated Herbicides MW	Analytical Method: EPA 8151 Preparation Method: EPA 3546							
2,4-D	ND	ug/kg	71.9	1	05/29/14 12:30	05/30/14 20:04	94-75-7	
2,4,5-T	ND	ug/kg	71.9	1	05/29/14 12:30	05/30/14 20:04	93-76-5	
2,4,5-TP (Silvex)	ND	ug/kg	71.9	1	05/29/14 12:30	05/30/14 20:04	93-72-1	
Surrogates								
2,4-DCAA (S)	93	%.	10-161	1	05/29/14 12:30	05/30/14 20:04	19719-28-9	
2,4-DCAA (S)	82	%.	10-161	1	05/29/14 12:30	05/30/14 20:04	19719-28-9	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-36-0	
Arsenic	**11.1**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-38-2	
Barium	**261**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-39-3	
Beryllium	**1.5**	mg/kg	0.50	1	05/31/14 07:57	06/03/14 14:33	7440-41-7	
Cadmium	**0.65**	mg/kg	0.50	1	05/31/14 07:57	06/03/14 14:33	7440-43-9	
Chromium	**9.1**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-47-3	
Copper	**24.4**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-50-8	
Lead	**28.4**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7439-92-1	
Nickel	**17.8**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-02-0	
Selenium	ND	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7782-49-2	
Silver	**1.1**	mg/kg	0.50	1	05/31/14 07:57	06/03/14 14:33	7440-22-4	
Thallium	**1.2**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-28-0	
Zinc	**76.7**	mg/kg	1.0	1	05/31/14 07:57	06/03/14 14:33	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.23	1	06/03/14 14:03	06/04/14 17:08	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.067**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	83-32-9	
Acenaphthylene	**0.069**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	208-96-8	
Anthracene	**0.18**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	120-12-7	
Benzo(a)anthracene	**0.53**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	56-55-3	
Benzo(a)pyrene	**0.49**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	50-32-8	
Benzo(b)fluoranthene	**0.50**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	205-99-2	
Benzo(g,h,i)perylene	**0.31**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	191-24-2	
Benzo(k)fluoranthene	**0.46**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	207-08-9	
Chrysene	**0.58**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	218-01-9	
Dibenz(a,h)anthracene	**0.17**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	53-70-3	
Fluoranthene	**0.90**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	206-44-0	
Fluorene	**0.050**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.30**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	193-39-5	
1-Methylnaphthalene	**0.013**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	90-12-0	N2
2-Methylnaphthalene	**0.013**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	91-57-6	
Naphthalene	**0.012**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	91-20-3	
Phenanthrene	**0.52**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	85-01-8	
Pyrene	**0.77**	mg/kg	0.0056	1	05/30/14 11:00	05/31/14 22:22	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	86	%.	38-110	1	05/30/14 11:00	05/31/14 22:22	321-60-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) **Lab ID: 5098316030** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Surrogates								
p-Terphenyl-d14 (S)	77	%.	32-111	1	05/30/14 11:00	05/31/14 22:22	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	83-32-9	
Acenaphthylene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	208-96-8	
Anthracene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	120-12-7	
Benzo(a)anthracene	**0.42**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	56-55-3	
Benzo(a)pyrene	**0.47**	mg/kg	0.19	1	05/28/14 12:12	05/30/14 19:39	50-32-8	
Benzo(b)fluoranthene	**0.43**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	191-24-2	
Benzo(k)fluoranthene	**0.44**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	207-08-9	
Benzyl alcohol	ND	mg/kg	0.74	1	05/28/14 12:12	05/30/14 19:39	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.74	1	05/28/14 12:12	05/30/14 19:39	59-50-7	
4-Chloroaniline	ND	mg/kg	0.74	1	05/28/14 12:12	05/30/14 19:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	91-58-7	
2-Chlorophenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	7005-72-3	
Chrysene	**0.49**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.19	1	05/28/14 12:12	05/30/14 19:39	53-70-3	
Dibenzofuran	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	132-64-9	
3,3'-Dichlorobenzidine	ND	mg/kg	0.74	1	05/28/14 12:12	05/30/14 19:39	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	120-83-2	
Diethylphthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	105-67-9	
Dimethylphthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	117-81-7	
Fluoranthene	**0.53**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	206-44-0	
Fluorene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	77-47-4	
Hexachloroethane	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	193-39-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) **Lab ID: 5098316030** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Isophorone	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.74	1	05/28/14 12:12	05/30/14 19:39		
Naphthalene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	91-20-3	
2-Nitroaniline	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	88-74-4	
3-Nitroaniline	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	99-09-2	
4-Nitroaniline	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	100-01-6	
Nitrobenzene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	98-95-3	
2-Nitrophenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	88-75-5	
4-Nitrophenol	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	86-30-6	
Pentachlorophenol	ND	mg/kg	1.8	1	05/28/14 12:12	05/30/14 19:39	87-86-5	
Phenanthrene	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	85-01-8	
Phenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	108-95-2	
Pyrene	**0.64**	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.37	1	05/28/14 12:12	05/30/14 19:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%.	28-101	1	05/28/14 12:12	05/30/14 19:39	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	31-94	1	05/28/14 12:12	05/30/14 19:39	321-60-8	
p-Terphenyl-d14 (S)	82	%.	26-110	1	05/28/14 12:12	05/30/14 19:39	1718-51-0	
Phenol-d5 (S)	62	%.	28-101	1	05/28/14 12:12	05/30/14 19:39	4165-62-2	
2-Fluorophenol (S)	55	%.	24-104	1	05/28/14 12:12	05/30/14 19:39	367-12-4	
2,4,6-Tribromophenol (S)	61	%.	16-122	1	05/28/14 12:12	05/30/14 19:39	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.5**	%	0.10	1		06/03/14 11:33		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) DUP **Lab ID: 5098316031** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.026**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	83-32-9	
Acenaphthylene	**0.062**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	208-96-8	
Anthracene	**0.092**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	120-12-7	
Benzo(a)anthracene	**0.36**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	56-55-3	
Benzo(a)pyrene	**0.48**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	50-32-8	
Benzo(b)fluoranthene	**0.38**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	205-99-2	
Benzo(g,h,i)perylene	**0.51**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	191-24-2	
Benzo(k)fluoranthene	**0.38**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	207-08-9	
Chrysene	**0.42**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	218-01-9	
Dibenz(a,h)anthracene	**0.17**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	53-70-3	
Fluoranthene	**0.61**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	206-44-0	
Fluorene	**0.022**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.40**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	193-39-5	
1-Methylnaphthalene	**0.013**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	90-12-0	N2
2-Methylnaphthalene	**0.013**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	91-57-6	
Naphthalene	**0.013**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	91-20-3	
Phenanthrene	**0.27**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	85-01-8	
Pyrene	**0.54**	mg/kg	0.0066	1	06/03/14 12:31	06/04/14 01:12	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	38-110	1	06/03/14 12:31	06/04/14 01:12	321-60-8	
p-Terphenyl-d14 (S)	77	%.	32-111	1	06/03/14 12:31	06/04/14 01:12	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	83-32-9	
Acenaphthylene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	208-96-8	
Anthracene	**0.41**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	120-12-7	
Benzo(a)anthracene	**1.0**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	56-55-3	
Benzo(a)pyrene	**0.97**	mg/kg	0.17	1	05/29/14 12:35	05/31/14 06:39	50-32-8	
Benzo(b)fluoranthene	**0.84**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	205-99-2	
Benzo(g,h,i)perylene	**0.61**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	191-24-2	
Benzo(k)fluoranthene	**0.94**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	207-08-9	
Benzyl alcohol	ND	mg/kg	0.66	1	05/29/14 12:35	05/31/14 06:39	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	85-68-7	
4-Chloro-3-methylphenol	ND	mg/kg	0.66	1	05/29/14 12:35	05/31/14 06:39	59-50-7	
4-Chloroaniline	ND	mg/kg	0.66	1	05/29/14 12:35	05/31/14 06:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	111-44-4	
bis(2chloro1methylethyl) ether	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	91-58-7	
2-Chlorophenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	7005-72-3	
Chrysene	**1.1**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.17	1	05/29/14 12:35	05/31/14 06:39	53-70-3	
Dibenzofuran	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	132-64-9	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) DUP **Lab ID: 5098316031** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
3,3'-Dichlorobenzidine	ND	mg/kg	0.66	1	05/29/14 12:35	05/31/14 06:39	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	120-83-2	
Diethylphthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	105-67-9	
Dimethylphthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	117-81-7	
Fluoranthene	**2.2**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	206-44-0	
Fluorene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	77-47-4	
Hexachloroethane	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.55**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	193-39-5	
Isophorone	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.66	1	05/29/14 12:35	05/31/14 06:39		
Naphthalene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	91-20-3	
2-Nitroaniline	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	88-74-4	
3-Nitroaniline	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	99-09-2	
4-Nitroaniline	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	100-01-6	
Nitrobenzene	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	98-95-3	
2-Nitrophenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	88-75-5	
4-Nitrophenol	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	86-30-6	
Pentachlorophenol	ND	mg/kg	1.6	1	05/29/14 12:35	05/31/14 06:39	87-86-5	
Phenanthrene	**1.7**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	85-01-8	
Phenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	108-95-2	
Pyrene	**1.7**	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	129-00-0	
2,4,5-Trichlorophenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.33	1	05/29/14 12:35	05/31/14 06:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	77	%.	28-101	1	05/29/14 12:35	05/31/14 06:39	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	31-94	1	05/29/14 12:35	05/31/14 06:39	321-60-8	
p-Terphenyl-d14 (S)	83	%.	26-110	1	05/29/14 12:35	05/31/14 06:39	1718-51-0	
Phenol-d5 (S)	66	%.	28-101	1	05/29/14 12:35	05/31/14 06:39	4165-62-2	
2-Fluorophenol (S)	61	%.	24-104	1	05/29/14 12:35	05/31/14 06:39	367-12-4	
2,4,6-Tribromophenol (S)	70	%.	16-122	1	05/29/14 12:35	05/31/14 06:39	118-79-6	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-23 (1-4) DUP **Lab ID: 5098316031** Collected: 05/21/14 11:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.6**	%	0.10	1		06/03/14 12:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-4 (0-2) **Lab ID: 5098316032** Collected: 05/21/14 13:25 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**2.2**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-36-0	
Arsenic	**11.4**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-38-2	
Barium	**186**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-39-3	
Beryllium	**1.1**	mg/kg	0.46	1	05/31/14 07:57	06/03/14 14:35	7440-41-7	
Cadmium	**0.98**	mg/kg	0.46	1	05/31/14 07:57	06/03/14 14:35	7440-43-9	
Chromium	**11.2**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-47-3	
Copper	**42.8**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-50-8	
Lead	**170**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7439-92-1	
Nickel	**15.0**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-02-0	
Selenium	ND	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7782-49-2	
Silver	ND	mg/kg	0.46	1	05/31/14 07:57	06/03/14 14:35	7440-22-4	
Thallium	**1.2**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-28-0	
Zinc	**214**	mg/kg	0.91	1	05/31/14 07:57	06/03/14 14:35	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.50**	mg/kg	0.22	1	06/03/14 14:03	06/04/14 17:10	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	83-32-9	
Acenaphthylene	**0.14**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	208-96-8	
Anthracene	**0.21**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	120-12-7	
Benzo(a)anthracene	**0.39**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	56-55-3	
Benzo(a)pyrene	**0.56**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	50-32-8	
Benzo(b)fluoranthene	**0.75**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	205-99-2	
Benzo(g,h,i)perylene	**0.56**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	191-24-2	
Benzo(k)fluoranthene	**0.68**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	207-08-9	
Chrysene	**0.69**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	218-01-9	
Dibenz(a,h)anthracene	**0.26**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	53-70-3	
Fluoranthene	**0.81**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	206-44-0	
Fluorene	ND	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.49**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	193-39-5	
1-Methylnaphthalene	**0.072**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	90-12-0	N2
2-Methylnaphthalene	**0.077**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	91-57-6	
Naphthalene	**0.082**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	91-20-3	4d
Phenanthrene	**0.66**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	85-01-8	
Pyrene	**0.69**	mg/kg	0.054	10	06/03/14 12:31	06/04/14 01:30	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	38-110	10	06/03/14 12:31	06/04/14 01:30	321-60-8	
p-Terphenyl-d14 (S)	58	%.	32-111	10	06/03/14 12:31	06/04/14 01:30	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.8**	%	0.10	1		06/03/14 11:33		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-3 (1-3) **Lab ID: 5098316033** Collected: 05/21/14 14:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-36-0	
Arsenic	**13.9**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-38-2	
Barium	**540**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-39-3	
Beryllium	**3.6**	mg/kg	0.57	1	05/31/14 07:57	06/03/14 14:37	7440-41-7	
Cadmium	ND	mg/kg	0.57	1	05/31/14 07:57	06/03/14 14:37	7440-43-9	
Chromium	**12.4**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-47-3	
Copper	**47.2**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-50-8	
Lead	**67.9**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7439-92-1	
Nickel	**28.4**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-02-0	
Selenium	ND	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7782-49-2	
Silver	ND	mg/kg	0.57	1	05/31/14 07:57	06/03/14 14:37	7440-22-4	
Thallium	**2.5**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-28-0	
Zinc	**110**	mg/kg	1.1	1	05/31/14 07:57	06/03/14 14:37	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/03/14 14:03	06/04/14 17:12	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.052**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	83-32-9	
Acenaphthylene	ND	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	208-96-8	
Anthracene	**0.067**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	120-12-7	
Benzo(a)anthracene	**0.095**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	56-55-3	
Benzo(a)pyrene	**0.076**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	50-32-8	
Benzo(b)fluoranthene	**0.064**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	205-99-2	
Benzo(g,h,i)perylene	**0.063**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	191-24-2	
Benzo(k)fluoranthene	**0.076**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	207-08-9	
Chrysene	**0.14**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	53-70-3	
Fluoranthene	**0.27**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	206-44-0	
Fluorene	**0.053**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.041**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	193-39-5	
1-Methylnaphthalene	**0.11**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	90-12-0	N2
2-Methylnaphthalene	**0.12**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	91-57-6	
Naphthalene	**0.14**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	91-20-3	4d
Phenanthrene	**0.36**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	85-01-8	
Pyrene	**0.22**	mg/kg	0.030	5	06/03/14 12:31	06/04/14 01:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	68	%.	38-110	5	06/03/14 12:31	06/04/14 01:48	321-60-8	
p-Terphenyl-d14 (S)	55	%.	32-111	5	06/03/14 12:31	06/04/14 01:48	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.1**	%	0.10	1		06/03/14 11:33		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-11 (0-2) **Lab ID: 5098316034** Collected: 05/21/14 14:35 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-36-0	
Arsenic	**7.2**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-38-2	
Barium	**201**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-39-3	
Beryllium	**1.3**	mg/kg	0.47	1	05/31/14 07:57	06/03/14 14:39	7440-41-7	
Cadmium	ND	mg/kg	0.47	1	05/31/14 07:57	06/03/14 14:39	7440-43-9	
Chromium	**9.6**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-47-3	
Copper	**23.3**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-50-8	
Lead	**58.7**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7439-92-1	
Nickel	**14.4**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-02-0	
Selenium	ND	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7782-49-2	
Silver	ND	mg/kg	0.47	1	05/31/14 07:57	06/03/14 14:39	7440-22-4	
Thallium	**1.1**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-28-0	
Zinc	**108**	mg/kg	0.95	1	05/31/14 07:57	06/03/14 14:39	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.21	1	06/03/14 14:03	06/04/14 17:14	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.0056**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	83-32-9	
Acenaphthylene	**0.0063**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	208-96-8	
Anthracene	**0.014**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	120-12-7	
Benzo(a)anthracene	**0.040**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	56-55-3	
Benzo(a)pyrene	**0.040**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	50-32-8	
Benzo(b)fluoranthene	**0.032**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	205-99-2	
Benzo(g,h,i)perylene	**0.027**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	191-24-2	
Benzo(k)fluoranthene	**0.036**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	207-08-9	
Chrysene	**0.048**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	218-01-9	
Dibenz(a,h)anthracene	**0.010**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	53-70-3	
Fluoranthene	**0.099**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	206-44-0	
Fluorene	**0.0063**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.023**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	193-39-5	
1-Methylnaphthalene	**0.021**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	90-12-0	N2
2-Methylnaphthalene	**0.021**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	91-57-6	
Naphthalene	**0.019**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	91-20-3	
Phenanthrene	**0.066**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	85-01-8	
Pyrene	**0.081**	mg/kg	0.0054	1	06/03/14 12:31	06/04/14 02:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71	%.	38-110	1	06/03/14 12:31	06/04/14 02:06	321-60-8	
p-Terphenyl-d14 (S)	65	%.	32-111	1	06/03/14 12:31	06/04/14 02:06	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.6**	%	0.10	1		06/05/14 13:17		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-8 (1-3) DUP **Lab ID: 5098316035** Collected: 05/19/14 13:45 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/kg	0.12	1	05/29/14 11:15	05/30/14 22:29	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	70	%.	30-106	1	05/29/14 11:15	05/30/14 22:29	877-09-8	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.5**	%	0.10	1		06/03/14 11:33		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Sample: SB-14 (0-2) DUP **Lab ID: 5098316036** Collected: 05/19/14 10:05 Received: 05/23/14 15:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-36-0	
Arsenic	**12.5**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-38-2	
Barium	**85.9**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-39-3	
Beryllium	**0.66**	mg/kg	0.60	1	05/31/14 07:57	06/03/14 14:56	7440-41-7	
Cadmium	ND	mg/kg	0.60	1	05/31/14 07:57	06/03/14 14:56	7440-43-9	
Chromium	**27.3**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-47-3	
Copper	**15.0**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-50-8	
Lead	**19.5**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7439-92-1	
Nickel	**16.6**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-02-0	
Selenium	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7782-49-2	
Silver	ND	mg/kg	0.60	1	05/31/14 07:57	06/03/14 14:56	7440-22-4	
Thallium	ND	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-28-0	
Zinc	**61.5**	mg/kg	1.2	1	05/31/14 07:57	06/03/14 14:56	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.25	1	06/03/14 14:03	06/04/14 17:27	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.7**	%	0.10	1		06/03/14 11:33		

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: MERP/5440 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 5098316001, 5098316003, 5098316004, 5098316005, 5098316006, 5098316008, 5098316009, 5098316010, 5098316011, 5098316012, 5098316013, 5098316014, 5098316016, 5098316017, 5098316018, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024

METHOD BLANK: 1102813 Matrix: Solid
Associated Lab Samples: 5098316001, 5098316003, 5098316004, 5098316005, 5098316006, 5098316008, 5098316009, 5098316010, 5098316011, 5098316012, 5098316013, 5098316014, 5098316016, 5098316017, 5098316018, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/10/14 13:59	

LABORATORY CONTROL SAMPLE: 1102814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.47	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102815 1102816

Parameter	Units	5098316009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.64	.64	0.64	0.65	90	91	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102817 1102818

Parameter	Units	5098316020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.55	.53	0.62	0.61	105	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: MERP/5447 — Analysis Method: EPA 7471
QC Batch Method: EPA 7471 — Analysis Description: 7471 Mercury
Associated Lab Samples: 5098316025, 5098316026, 5098316027, 5098316028, 5098316029, 5098316030, 5098316032, 5098316033, 5098316034, 5098316036

METHOD BLANK: 1104296 — Matrix: Solid
Associated Lab Samples: 5098316025, 5098316026, 5098316027, 5098316028, 5098316029, 5098316030, 5098316032, 5098316033, 5098316034, 5098316036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/04/14 16:41	

LABORATORY CONTROL SAMPLE: 1104297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104298 — 1104299

Parameter	Units	5098316025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.57	.62	0.68	1.1	108	163	75-125	44	20	10d, M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104300 — 1104301

Parameter	Units	5098316029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.67	.64	0.72	0.69	103	103	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104302 — 1104303

Parameter	Units	5098316034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.57	.53	0.69	0.67	109	114	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: MPRP/13476 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET
Associated Lab Samples: 5098316001, 5098316003

METHOD BLANK: 1102619 — Matrix: Solid
Associated Lab Samples: 5098316001, 5098316003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	06/01/14 20:19	
Arsenic	mg/kg	ND	1.0	06/01/14 20:19	
Barium	mg/kg	ND	1.0	06/01/14 20:19	
Beryllium	mg/kg	ND	0.50	06/01/14 20:19	
Cadmium	mg/kg	ND	0.50	06/01/14 20:19	
Chromium	mg/kg	ND	1.0	06/01/14 20:19	
Copper	mg/kg	ND	1.0	06/01/14 20:19	
Lead	mg/kg	ND	1.0	06/01/14 20:19	
Nickel	mg/kg	ND	1.0	06/01/14 20:19	
Selenium	mg/kg	ND	1.0	06/01/14 20:19	
Silver	mg/kg	ND	0.50	06/01/14 20:19	
Thallium	mg/kg	ND	1.0	06/01/14 20:19	
Zinc	mg/kg	1.5	1.0	06/01/14 20:19	P8

LABORATORY CONTROL SAMPLE: 1102620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	51.2	102	80-120	
Arsenic	mg/kg	50	51.8	104	80-120	
Barium	mg/kg	50	53.4	107	80-120	
Beryllium	mg/kg	50	53.1	106	80-120	
Cadmium	mg/kg	50	51.2	102	80-120	
Chromium	mg/kg	50	51.6	103	80-120	
Copper	mg/kg	50	52.1	104	80-120	
Lead	mg/kg	50	51.8	104	80-120	
Nickel	mg/kg	50	51.2	102	80-120	
Selenium	mg/kg	50	49.4	99	80-120	
Silver	mg/kg	25	25.7	103	80-120	
Thallium	mg/kg	50	49.8	100	80-120	
Zinc	mg/kg	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102621 1102622

Parameter	Units	5098295003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	52.9	53.1	33.6	32.5	63	61	75-125	3	20	M3
Arsenic	mg/kg	5.2	52.9	53.1	54.6	69.9	93	122	75-125	25	20	8d
Barium	mg/kg	10.8	52.9	53.1	60.8	64.7	94	102	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102621 1102622

Parameter	Units	5098295003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/kg	ND	52.9	53.1	46.2	48.4	87	91	75-125	5	20	
Cadmium	mg/kg	ND	52.9	53.1	53.1	54.0	100	102	75-125	2	20	
Chromium	mg/kg	5.1	52.9	53.1	48.0	52.1	81	89	75-125	8	20	
Copper	mg/kg	9.0	52.9	53.1	57.0	60.9	91	98	75-125	7	20	
Lead	mg/kg	3.5	52.9	53.1	49.0	52.6	86	93	75-125	7	20	
Nickel	mg/kg	6.1	52.9	53.1	48.0	51.4	79	86	75-125	7	20	
Selenium	mg/kg	ND	52.9	53.1	46.6	48.2	88	91	75-125	3	20	
Silver	mg/kg	ND	26.5	26.5	24.7	25.4	93	96	75-125	3	20	
Thallium	mg/kg	ND	52.9	53.1	43.5	45.9	81	85	75-125	5	20	
Zinc	mg/kg	22.9	52.9	53.1	53.1	57.8	57	66	75-125	8	20	M3

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: MPRP/13477 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5098316004, 5098316005, 5098316006, 5098316008, 5098316009, 5098316010, 5098316011, 5098316012, 5098316013, 5098316014, 5098316016, 5098316017, 5098316018, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024, 5098316025, 5098316026

METHOD BLANK: 1102838 Matrix: Solid
Associated Lab Samples: 5098316004, 5098316005, 5098316006, 5098316008, 5098316009, 5098316010, 5098316011, 5098316012, 5098316013, 5098316014, 5098316016, 5098316017, 5098316018, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024, 5098316025, 5098316026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	06/03/14 13:05	
Arsenic	mg/kg	ND	1.0	06/03/14 13:05	
Barium	mg/kg	ND	1.0	06/03/14 13:05	
Beryllium	mg/kg	ND	0.50	06/03/14 13:05	
Cadmium	mg/kg	ND	0.50	06/03/14 13:05	
Chromium	mg/kg	ND	1.0	06/03/14 13:05	
Copper	mg/kg	ND	1.0	06/03/14 13:05	
Lead	mg/kg	ND	1.0	06/03/14 13:05	
Nickel	mg/kg	ND	1.0	06/03/14 13:05	
Selenium	mg/kg	ND	1.0	06/03/14 13:05	
Silver	mg/kg	ND	0.50	06/03/14 13:05	
Thallium	mg/kg	ND	1.0	06/03/14 13:05	
Zinc	mg/kg	1.1	1.0	06/03/14 13:05	P8

LABORATORY CONTROL SAMPLE: 1102839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	51.5	103	80-120	
Arsenic	mg/kg	50	50.0	100	80-120	
Barium	mg/kg	50	51.6	103	80-120	
Beryllium	mg/kg	50	48.9	98	80-120	
Cadmium	mg/kg	50	48.8	98	80-120	
Chromium	mg/kg	50	47.2	94	80-120	
Copper	mg/kg	50	49.3	99	80-120	
Lead	mg/kg	50	49.6	99	80-120	
Nickel	mg/kg	50	49.3	99	80-120	
Selenium	mg/kg	50	48.3	97	80-120	
Silver	mg/kg	25	24.5	98	80-120	
Thallium	mg/kg	50	49.6	99	80-120	
Zinc	mg/kg	50	48.2	96	80-120	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102840 1102841

Parameter	Units	5098316020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	52.2	54.3	18.8	20.7	35	38	75-125	10	20	M3
Arsenic	mg/kg	8.9	52.2	54.3	58.5	59.3	95	93	75-125	1	20	
Barium	mg/kg	139	52.2	54.3	104	133	-68	-12	75-125	25	20	9d,M3
Beryllium	mg/kg	0.82	52.2	54.3	44.6	46.3	84	84	75-125	4	20	
Cadmium	mg/kg	ND	52.2	54.3	49.9	51.3	95	94	75-125	3	20	
Chromium	mg/kg	19.6	52.2	54.3	58.5	59.0	74	73	75-125	1	20	M3
Copper	mg/kg	17.5	52.2	54.3	57.2	59.4	76	77	75-125	4	20	
Lead	mg/kg	46.5	52.2	54.3	56.8	69.5	20	42	75-125	20	20	M3
Nickel	mg/kg	20.4	52.2	54.3	56.6	57.3	69	68	75-125	1	20	M3
Selenium	mg/kg	ND	52.2	54.3	44.9	47.1	86	87	75-125	5	20	
Silver	mg/kg	ND	26.2	27.2	23.3	24.4	89	90	75-125	5	20	
Thallium	mg/kg	ND	52.2	54.3	45.4	47.3	86	86	75-125	4	20	
Zinc	mg/kg	107	52.2	54.3	81.6	101	-49	-11	75-125	22	20	9d,M3

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: MPRP/13478 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5098316027, 5098316028, 5098316029, 5098316030, 5098316032, 5098316033, 5098316034, 5098316036

METHOD BLANK: 1102855 Matrix: Solid
Associated Lab Samples: 5098316027, 5098316028, 5098316029, 5098316030, 5098316032, 5098316033, 5098316034, 5098316036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	06/03/14 13:03	
Arsenic	mg/kg	ND	1.0	06/03/14 13:03	
Barium	mg/kg	ND	1.0	06/03/14 13:03	
Beryllium	mg/kg	ND	0.50	06/03/14 13:03	
Cadmium	mg/kg	ND	0.50	06/03/14 13:03	
Chromium	mg/kg	ND	1.0	06/03/14 13:03	
Copper	mg/kg	ND	1.0	06/03/14 13:03	
Lead	mg/kg	ND	1.0	06/03/14 13:03	
Nickel	mg/kg	ND	1.0	06/03/14 13:03	
Selenium	mg/kg	ND	1.0	06/03/14 13:03	
Silver	mg/kg	ND	0.50	06/03/14 13:03	
Thallium	mg/kg	ND	1.0	06/03/14 13:03	
Zinc	mg/kg	ND	1.0	06/03/14 13:03	

LABORATORY CONTROL SAMPLE: 1102856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	51.7	103	80-120	
Arsenic	mg/kg	50	50.7	101	80-120	
Barium	mg/kg	50	52.4	105	80-120	
Beryllium	mg/kg	50	49.1	98	80-120	
Cadmium	mg/kg	50	49.1	98	80-120	
Chromium	mg/kg	50	47.6	95	80-120	
Copper	mg/kg	50	49.8	100	80-120	
Lead	mg/kg	50	49.9	100	80-120	
Nickel	mg/kg	50	49.6	99	80-120	
Selenium	mg/kg	50	48.4	97	80-120	
Silver	mg/kg	25	24.4	98	80-120	
Thallium	mg/kg	50	49.9	100	80-120	
Zinc	mg/kg	50	47.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102857 1102858

Parameter	Units	5098316034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	47.3	47.3	17.5	13.5	36	28	75-125	26	20	9d,M3
Arsenic	mg/kg	7.2	47.3	47.3	48.6	46.0	87	82	75-125	5	20	
Barium	mg/kg	201	47.3	47.3	154	152	-99	-104	75-125	1	20	M3

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102857 1102858

Parameter	Units	5098316034 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/kg	1.3	47.3	47.3	39.9	39.2	82	80	75-125	2	20	
Cadmium	mg/kg	ND	47.3	47.3	46.0	41.6	96	87	75-125	10	20	
Chromium	mg/kg	9.6	47.3	47.3	47.8	50.1	81	85	75-125	5	20	
Copper	mg/kg	23.3	47.3	47.3	52.5	48.8	62	54	75-125	7	20	M3
Lead	mg/kg	58.7	47.3	47.3	59.4	65.8	2	15	75-125	10	20	M3
Nickel	mg/kg	14.4	47.3	47.3	48.9	50.6	73	76	75-125	3	20	M0
Selenium	mg/kg	ND	47.3	47.3	40.7	39.5	86	83	75-125	3	20	
Silver	mg/kg	ND	23.6	23.7	21.3	19.6	90	83	75-125	8	20	
Thallium	mg/kg	1.1	47.3	47.3	38.3	40.0	79	82	75-125	5	20	
Zinc	mg/kg	108	47.3	47.3	79.0	77.4	-61	-65	75-125	2	20	M3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102859 1102860

Parameter	Units	5098418005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/kg	ND	50.7	49.6	11.0	11.9	22	24	75-125	8	20	M3
Arsenic	mg/kg	3.7	50.7	49.6	46.4	47.9	84	89	75-125	3	20	
Barium	mg/kg	42.4	50.7	49.6	96.5	101	107	118	75-125	5	20	
Beryllium	mg/kg	ND	50.7	49.6	38.1	38.8	75	78	75-125	2	20	
Cadmium	mg/kg	ND	50.7	49.6	42.4	43.1	83	87	75-125	2	20	
Chromium	mg/kg	8.0	50.7	49.6	47.9	49.7	79	84	75-125	4	20	
Copper	mg/kg	11.4	50.7	49.6	55.6	58.1	87	94	75-125	4	20	
Lead	mg/kg	7.3	50.7	49.6	47.2	49.4	79	85	75-125	5	20	
Nickel	mg/kg	15.7	50.7	49.6	54.9	57.7	77	85	75-125	5	20	
Selenium	mg/kg	ND	50.7	49.6	38.3	38.4	76	77	75-125	0	20	
Silver	mg/kg	ND	25.4	24.7	20.1	20.6	79	83	75-125	3	20	
Thallium	mg/kg	ND	50.7	49.6	38.3	39.1	74	78	75-125	2	20	M0
Zinc	mg/kg	30.8	50.7	49.6	76.4	79.6	90	98	75-125	4	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35949 — Analysis Method: EPA 8082
QC Batch Method: EPA 3546 — Analysis Description: 8082 GCS PCB
Associated Lab Samples: 5098316009, 5098316011, 5098316021, 5098316035

METHOD BLANK: 1101812 — Matrix: Solid
Associated Lab Samples: 5098316009, 5098316011, 5098316021, 5098316035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1221 (Aroclor 1221)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1232 (Aroclor 1232)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1242 (Aroclor 1242)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1248 (Aroclor 1248)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1254 (Aroclor 1254)	mg/kg	ND	0.10	05/30/14 20:39	
PCB-1260 (Aroclor 1260)	mg/kg	ND	0.10	05/30/14 20:39	
Tetrachloro-m-xylene (S)	%.	63	30-106	05/30/14 20:39	

LABORATORY CONTROL SAMPLE: 1101813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.11	66	42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.13	75	40-106	
Tetrachloro-m-xylene (S)	%.			60	30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101814 1101815

Parameter	Units	5098316009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	.2	.2	0.14	0.14	67	70	10-145	4	20	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.2	.2	0.15	0.14	74	72	16-132	2	20	
Tetrachloro-m-xylene (S)	%.						66	69	30-106			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/1709 — Analysis Method: EPA 8151
QC Batch Method: EPA 3546 — Analysis Description: 8151 GCS Herbicides
Associated Lab Samples: 5098316004, 5098316006, 5098316010, 5098316012, 5098316014, 5098316015, 5098316025, 5098316030

METHOD BLANK: 21139 — Matrix: Solid
Associated Lab Samples: 5098316004, 5098316006, 5098316010, 5098316012, 5098316014, 5098316015, 5098316025, 5098316030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	ug/kg	ND	66.7	05/30/14 15:14	
2,4,5-TP (Silvex)	ug/kg	ND	66.7	05/30/14 15:14	
2,4-D	ug/kg	ND	66.7	05/30/14 15:14	
2,4-DCAA (S)	%.	55	10-161	05/30/14 15:14	

LABORATORY CONTROL SAMPLE: 21140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-T	ug/kg	66.7	39J	58	13-174	
2,4,5-TP (Silvex)	ug/kg	66.7	39.1J	59	17-173	
2,4-D	ug/kg	667	404	61	14-171	
2,4-DCAA (S)	%.			53	10-161	
2,4-DCAA (S)	%.			82	10-161	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 21141 — 21142

Parameter	Units	5098316010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-T	ug/kg	ND	77.8	79.6	ND	44.1J	31	40	10-210		20	
2,4,5-TP (Silvex)	ug/kg	ND	77.8	79.6	ND	47.9J	-13	8	10-175		20	M1
2,4-D	ug/kg	114	778	796	344	448	30	42	10-174	26	20	R1
2,4-DCAA (S)	%.						116	267	10-161			S0
2,4-DCAA (S)	%.						63	78	10-161			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35955 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5098316001, 5098316003, 5098316004, 5098316005

METHOD BLANK: 1101879 — Matrix: Solid
Associated Lab Samples: 5098316001, 5098316003, 5098316004, 5098316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	05/30/14 00:31	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	05/30/14 00:31	
Acenaphthene	mg/kg	ND	0.0050	05/30/14 00:31	
Acenaphthylene	mg/kg	ND	0.0050	05/30/14 00:31	
Anthracene	mg/kg	ND	0.0050	05/30/14 00:31	
Benzo(a)anthracene	mg/kg	ND	0.0050	05/30/14 00:31	
Benzo(a)pyrene	mg/kg	ND	0.0050	05/30/14 00:31	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	05/30/14 00:31	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	05/30/14 00:31	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	05/30/14 00:31	
Chrysene	mg/kg	ND	0.0050	05/30/14 00:31	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	05/30/14 00:31	
Fluoranthene	mg/kg	ND	0.0050	05/30/14 00:31	
Fluorene	mg/kg	ND	0.0050	05/30/14 00:31	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	05/30/14 00:31	
Naphthalene	mg/kg	ND	0.0050	05/30/14 00:31	
Phenanthrene	mg/kg	ND	0.0050	05/30/14 00:31	
Pyrene	mg/kg	ND	0.0050	05/30/14 00:31	
2-Fluorobiphenyl (S)	%.	74	38-110	05/30/14 00:31	
p-Terphenyl-d14 (S)	%.	78	32-111	05/30/14 00:31	

LABORATORY CONTROL SAMPLE: 1101880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.23	69	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.21	63	39-104	
Acenaphthene	mg/kg	.33	0.25	75	43-108	
Acenaphthylene	mg/kg	.33	0.24	73	44-110	
Anthracene	mg/kg	.33	0.25	74	44-112	
Benzo(a)anthracene	mg/kg	.33	0.26	79	43-124	
Benzo(a)pyrene	mg/kg	.33	0.28	84	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.28	85	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.28	85	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.28	84	42-122	
Chrysene	mg/kg	.33	0.27	80	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.28	84	44-119	
Fluoranthene	mg/kg	.33	0.26	77	45-119	
Fluorene	mg/kg	.33	0.25	75	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.28	84	44-119	
Naphthalene	mg/kg	.33	0.21	63	42-103	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1101880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.25	76	44-113	
Pyrene	mg/kg	.33	0.26	78	45-123	
2-Fluorobiphenyl (S)	%.			54	38-110	
p-Terphenyl-d14 (S)	%.			79	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101881 1101882

Parameter	Units	5098252023 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	ND	.35	.35	0.27	0.26	78	75	20-116	4	20	N2
2-Methylnaphthalene	mg/kg	ND	.35	.35	0.26	0.26	74	75	10-131	1	20	
Acenaphthene	mg/kg	ND	.35	.35	0.27	0.26	79	75	25-117	5	20	
Acenaphthylene	mg/kg	ND	.35	.35	0.26	0.26	75	74	27-123	0	20	
Anthracene	mg/kg	ND	.35	.35	0.27	0.26	76	75	20-123	2	20	
Benzo(a)anthracene	mg/kg	ND	.35	.35	0.28	0.27	79	77	23-124	2	20	
Benzo(a)pyrene	mg/kg	ND	.35	.35	0.29	0.29	83	84	23-120	1	20	
Benzo(b)fluoranthene	mg/kg	ND	.35	.35	0.30	0.27	84	77	24-117	9	20	
Benzo(g,h,i)perylene	mg/kg	ND	.35	.35	0.29	0.29	83	82	12-122	1	20	
Benzo(k)fluoranthene	mg/kg	ND	.35	.35	0.29	0.27	82	77	14-123	7	20	
Chrysene	mg/kg	ND	.35	.35	0.29	0.28	83	79	22-124	5	20	
Dibenz(a,h)anthracene	mg/kg	ND	.35	.35	0.30	0.30	85	85	26-113	0	20	
Fluoranthene	mg/kg	ND	.35	.35	0.23	0.31	66	87	21-125	27	20	R1
Fluorene	mg/kg	ND	.35	.35	0.28	0.27	79	77	19-127	3	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.35	.35	0.29	0.29	82	82	15-121	1	20	
Naphthalene	mg/kg	ND	.35	.35	0.25	0.24	71	68	15-125	4	20	
Phenanthrene	mg/kg	0.0061	.35	.35	0.29	0.27	80	76	10-139	4	20	
Pyrene	mg/kg	ND	.35	.35	0.28	0.27	80	78	17-132	2	20	
2-Fluorobiphenyl (S)	%.						85	90	38-110			
p-Terphenyl-d14 (S)	%.						81	69	32-111			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35964 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5098316006, 5098316007, 5098316008, 5098316009, 5098316011, 5098316013, 5098316014, 5098316016, 5098316017, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024, 5098316025, 5098316026, 5098316028, 5098316030

METHOD BLANK: 1102489 — Matrix: Solid
Associated Lab Samples: 5098316006, 5098316007, 5098316008, 5098316009, 5098316011, 5098316013, 5098316014, 5098316016, 5098316017, 5098316019, 5098316020, 5098316022, 5098316023, 5098316024, 5098316025, 5098316026, 5098316028, 5098316030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	05/31/14 14:49	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	05/31/14 14:49	
Acenaphthene	mg/kg	ND	0.0050	05/31/14 14:49	
Acenaphthylene	mg/kg	ND	0.0050	05/31/14 14:49	
Anthracene	mg/kg	ND	0.0050	05/31/14 14:49	
Benzo(a)anthracene	mg/kg	ND	0.0050	05/31/14 14:49	
Benzo(a)pyrene	mg/kg	ND	0.0050	05/31/14 14:49	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	05/31/14 14:49	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	05/31/14 14:49	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	05/31/14 14:49	
Chrysene	mg/kg	ND	0.0050	05/31/14 14:49	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	05/31/14 14:49	
Fluoranthene	mg/kg	ND	0.0050	05/31/14 14:49	
Fluorene	mg/kg	ND	0.0050	05/31/14 14:49	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	05/31/14 14:49	
Naphthalene	mg/kg	ND	0.0050	05/31/14 14:49	
Phenanthrene	mg/kg	ND	0.0050	05/31/14 14:49	
Pyrene	mg/kg	ND	0.0050	05/31/14 14:49	
2-Fluorobiphenyl (S)	%.	93	38-110	05/31/14 14:49	
p-Terphenyl-d14 (S)	%.	84	32-111	05/31/14 14:49	

LABORATORY CONTROL SAMPLE: 1102490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.30	90	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.27	82	39-104	
Acenaphthene	mg/kg	.33	0.27	81	43-108	
Acenaphthylene	mg/kg	.33	0.27	81	44-110	
Anthracene	mg/kg	.33	0.26	79	44-112	
Benzo(a)anthracene	mg/kg	.33	0.29	87	43-124	
Benzo(a)pyrene	mg/kg	.33	0.31	93	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.33	100	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.31	92	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.31	92	42-122	
Chrysene	mg/kg	.33	0.29	88	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.31	92	44-119	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1102490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	.33	0.28	83	45-119	
Fluorene	mg/kg	.33	0.27	81	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.30	91	44-119	
Naphthalene	mg/kg	.33	0.26	77	42-103	
Phenanthrene	mg/kg	.33	0.28	85	44-113	
Pyrene	mg/kg	.33	0.30	90	45-123	
2-Fluorobiphenyl (S)	%.			82	38-110	
p-Terphenyl-d14 (S)	%.			94	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1102491 1102492

Parameter	Units	5098316025 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	0.070	.38	.38	0.46	0.47	102	104	20-116	1	20	N2
2-Methylnaphthalene	mg/kg	0.085	.38	.38	0.45	0.43	96	91	10-131	4	20	
Acenaphthene	mg/kg	ND	.38	.38	0.32	0.34	83	87	25-117	4	20	
Acenaphthylene	mg/kg	0.086	.38	.38	0.45	0.39	95	78	27-123	15	20	
Anthracene	mg/kg	0.076	.38	.38	0.43	0.35	91	71	20-123	20	20	
Benzo(a)anthracene	mg/kg	0.18	.38	.38	0.37	0.33	49	38	23-124	12	20	
Benzo(a)pyrene	mg/kg	0.20	.38	.38	0.34	0.31	37	30	23-120	9	20	
Benzo(b)fluoranthene	mg/kg	0.19	.38	.38	0.43	0.36	62	43	24-117	18	20	
Benzo(g,h,i)perylene	mg/kg	0.17	.38	.38	0.32	0.24	40	18	12-122	30	20	R1
Benzo(k)fluoranthene	mg/kg	0.21	.38	.38	0.39	0.33	46	32	14-123	16	20	
Chrysene	mg/kg	0.24	.38	.38	0.45	0.37	54	34	22-124	18	20	
Dibenz(a,h)anthracene	mg/kg	0.059	.38	.38	0.20	0.18	38	33	26-113	10	20	
Fluoranthene	mg/kg	0.38	.38	.38	0.70	0.70	81	81	21-125	0	20	
Fluorene	mg/kg	ND	.38	.38	0.35	0.33	86	80	19-127	7	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.13	.38	.38	0.27	0.23	36	26	15-121	15	20	
Naphthalene	mg/kg	0.090	.38	.38	0.41	0.40	82	80	15-125	2	20	2d
Phenanthrene	mg/kg	0.29	.38	.38	0.65	0.59	94	79	10-139	10	20	
Pyrene	mg/kg	0.33	.38	.38	0.61	0.51	74	47	17-132	19	20	
2-Fluorobiphenyl (S)	%.						92	84	38-110			
p-Terphenyl-d14 (S)	%.						68	62	32-111			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35988 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5098316010, 5098316012

METHOD BLANK: 1103758 — Matrix: Solid
Associated Lab Samples: 5098316010, 5098316012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	06/02/14 21:13	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	06/02/14 21:13	
Acenaphthene	mg/kg	ND	0.0050	06/02/14 21:13	
Acenaphthylene	mg/kg	ND	0.0050	06/02/14 21:13	
Anthracene	mg/kg	ND	0.0050	06/02/14 21:13	
Benzo(a)anthracene	mg/kg	ND	0.0050	06/02/14 21:13	
Benzo(a)pyrene	mg/kg	ND	0.0050	06/02/14 21:13	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	06/02/14 21:13	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	06/02/14 21:13	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	06/02/14 21:13	
Chrysene	mg/kg	ND	0.0050	06/02/14 21:13	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	06/02/14 21:13	
Fluoranthene	mg/kg	ND	0.0050	06/02/14 21:13	
Fluorene	mg/kg	ND	0.0050	06/02/14 21:13	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	06/02/14 21:13	
Naphthalene	mg/kg	ND	0.0050	06/02/14 21:13	
Phenanthrene	mg/kg	ND	0.0050	06/02/14 21:13	
Pyrene	mg/kg	ND	0.0050	06/02/14 21:13	
2-Fluorobiphenyl (S)	%.	75	38-110	06/02/14 21:13	
p-Terphenyl-d14 (S)	%.	93	32-111	06/02/14 21:13	

LABORATORY CONTROL SAMPLE: 1103759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.24	71	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.23	70	39-104	
Acenaphthene	mg/kg	.33	0.27	80	43-108	
Acenaphthylene	mg/kg	.33	0.26	79	44-110	
Anthracene	mg/kg	.33	0.28	85	44-112	
Benzo(a)anthracene	mg/kg	.33	0.29	86	43-124	
Benzo(a)pyrene	mg/kg	.33	0.31	93	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.31	92	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.30	91	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.33	98	42-122	
Chrysene	mg/kg	.33	0.30	89	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.31	92	44-119	
Fluoranthene	mg/kg	.33	0.29	87	45-119	
Fluorene	mg/kg	.33	0.29	87	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.30	91	44-119	
Naphthalene	mg/kg	.33	0.23	70	42-103	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1103759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.28	85	44-113	
Pyrene	mg/kg	.33	0.32	96	45-123	
2-Fluorobiphenyl (S)	%.			0	38-110	11d
p-Terphenyl-d14 (S)	%.			0	32-111	11d

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103760 1103761

Parameter	Units	5098424009 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	7.2 ug/kg	.36	.36	0.26	0.30	70	81	20-116	16	20	N2
2-Methylnaphthalene	mg/kg	15.5 ug/kg	.36	.36	0.25	0.29	66	75	10-131	13	20	
Acenaphthene	mg/kg	ND	.36	.36	0.28	0.30	79	81	25-117	4	20	
Acenaphthylene	mg/kg	ND	.36	.36	0.31	0.29	87	79	27-123	9	20	
Anthracene	mg/kg	ND	.36	.36	0.29	0.31	80	86	20-123	9	20	
Benzo(a)anthracene	mg/kg	ND	.36	.36	0.28	0.31	78	85	23-124	9	20	
Benzo(a)pyrene	mg/kg	ND	.36	.36	0.30	0.32	83	89	23-120	8	20	
Benzo(b)fluoranthene	mg/kg	ND	.36	.36	0.30	0.34	84	93	24-117	10	20	
Benzo(g,h,i)perylene	mg/kg	ND	.36	.36	0.25	0.31	68	84	12-122	22	20	R1
Benzo(k)fluoranthene	mg/kg	ND	.36	.36	0.29	0.32	80	88	14-123	10	20	
Chrysene	mg/kg	6.0 ug/kg	.36	.36	0.30	0.33	82	88	22-124	7	20	
Dibenz(a,h)anthracene	mg/kg	ND	.36	.36	0.26	0.32	71	87	26-113	21	20	R1
Fluoranthene	mg/kg	ND	.36	.36	0.31	0.34	87	92	21-125	7	20	
Fluorene	mg/kg	ND	.36	.36	0.32	0.31	89	85	19-127	3	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.36	.36	0.25	0.31	69	86	15-121	22	20	R1
Naphthalene	mg/kg	12.4 ug/kg	.36	.36	0.26	0.28	68	73	15-125	7	20	
Phenanthrene	mg/kg	ND	.36	.36	0.30	0.32	82	87	10-139	7	20	
Pyrene	mg/kg	6.5 ug/kg	.36	.36	0.29	0.32	79	85	17-132	8	20	
2-Fluorobiphenyl (S)	%.						81	74	38-110			
p-Terphenyl-d14 (S)	%.						68	73	32-111			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/36007 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5098316029, 5098316031, 5098316032, 5098316033, 5098316034

METHOD BLANK: 1104379 — Matrix: Solid
Associated Lab Samples: 5098316029, 5098316031, 5098316032, 5098316033, 5098316034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	06/03/14 23:41	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	06/03/14 23:41	
Acenaphthene	mg/kg	ND	0.0050	06/03/14 23:41	
Acenaphthylene	mg/kg	ND	0.0050	06/03/14 23:41	
Anthracene	mg/kg	ND	0.0050	06/03/14 23:41	
Benzo(a)anthracene	mg/kg	ND	0.0050	06/03/14 23:41	
Benzo(a)pyrene	mg/kg	ND	0.0050	06/03/14 23:41	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	06/03/14 23:41	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	06/03/14 23:41	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	06/03/14 23:41	
Chrysene	mg/kg	ND	0.0050	06/03/14 23:41	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	06/03/14 23:41	
Fluoranthene	mg/kg	ND	0.0050	06/03/14 23:41	
Fluorene	mg/kg	ND	0.0050	06/03/14 23:41	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	06/03/14 23:41	
Naphthalene	mg/kg	ND	0.0050	06/03/14 23:41	
Phenanthrene	mg/kg	ND	0.0050	06/03/14 23:41	
Pyrene	mg/kg	ND	0.0050	06/03/14 23:41	
2-Fluorobiphenyl (S)	%.	79	38-110	06/03/14 23:41	
p-Terphenyl-d14 (S)	%.	81	32-111	06/03/14 23:41	

LABORATORY CONTROL SAMPLE: 1104380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.22	65	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.20	60	39-104	
Acenaphthene	mg/kg	.33	0.23	68	43-108	
Acenaphthylene	mg/kg	.33	0.22	67	44-110	
Anthracene	mg/kg	.33	0.23	70	44-112	
Benzo(a)anthracene	mg/kg	.33	0.25	76	43-124	
Benzo(a)pyrene	mg/kg	.33	0.27	80	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.25	75	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.25	76	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.25	75	42-122	
Chrysene	mg/kg	.33	0.25	76	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.26	78	44-119	
Fluoranthene	mg/kg	.33	0.27	81	45-119	
Fluorene	mg/kg	.33	0.24	71	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.26	78	44-119	
Naphthalene	mg/kg	.33	0.21	62	42-103	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1104380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.23	70	44-113	
Pyrene	mg/kg	.33	0.24	71	45-123	
2-Fluorobiphenyl (S)	%.			69	38-110	
p-Terphenyl-d14 (S)	%.			70	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104381 1104382

Parameter	Units	5098316029 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	0.067	.43	.43	0.27	0.077	48	2	20-116	113	20	7d,N2, R1
2-Methylnaphthalene	mg/kg	0.085	.43	.43	0.27	0.064	43	-5	10-131	123	20	7d,R1
Acenaphthene	mg/kg	0.022	.43	.43	0.26	0.083	55	14	25-117	103	20	7d,R1
Acenaphthylene	mg/kg	0.028	.43	.43	0.23	0.071	46	10	27-123	104	20	7d,R1
Anthracene	mg/kg	0.044	.43	.43	0.27	0.078	51	8	20-123	109	20	7d,R1
Benzo(a)anthracene	mg/kg	0.064	.43	.43	0.36	0.097	68	8	23-124	115	20	7d,R1
Benzo(a)pyrene	mg/kg	0.073	.43	.43	0.34	0.092	63	5	23-120	115	20	7d,R1
Benzo(b)fluoranthene	mg/kg	0.11	.43	.43	0.34	0.099	55	-1	24-117	110	20	7d,R1
Benzo(g,h,i)perylene	mg/kg	0.082	.43	.43	0.25	0.074	40	-2	12-122	110	20	7d,R1
Benzo(k)fluoranthene	mg/kg	0.11	.43	.43	0.37	0.10	59	-1	14-123	112	20	7d,R1
Chrysene	mg/kg	0.084	.43	.43	0.40	0.11	73	5	22-124	115	20	7d,R1
Dibenz(a,h)anthracene	mg/kg	0.023	.43	.43	0.24	0.076	51	12	26-113	104	20	7d,R1
Fluoranthene	mg/kg	0.10	.43	.43	0.54	0.13	101	8	21-125	121	20	7d,R1
Fluorene	mg/kg	0.027	.43	.43	0.27	0.085	55	13	19-127	103	20	7d,R1
Indeno(1,2,3-cd)pyrene	mg/kg	0.073	.43	.43	0.25	0.080	41	2	15-121	104	20	7d,R1
Naphthalene	mg/kg	0.10	.43	.43	0.41	0.056	71	-11	15-125	152	20	7d,R1
Phenanthrene	mg/kg	0.11	.43	.43	0.47	0.12	83	1	10-139	121	20	7d,R1
Pyrene	mg/kg	0.096	.43	.43	0.43	0.11	76	4	17-132	117	20	7d,R1
2-Fluorobiphenyl (S)	%.						59	19	38-110			R1,S0
p-Terphenyl-d14 (S)	%.						58	18	32-111			R1,S0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104383 1104384

Parameter	Units	5098487001 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	208 ug/kg	.37	.37	0.39	0.34	49	35	20-116	15	20	N2
2-Methylnaphthalene	mg/kg	148 ug/kg	.37	.37	0.32	0.26	45	31	10-131	18	20	
Acenaphthene	mg/kg	ND	.37	.37	0.27	0.25	60	57	25-117	5	20	
Acenaphthylene	mg/kg	ND	.37	.37	0.27	0.26	73	72	27-123	3	20	
Anthracene	mg/kg	ND	.37	.37	0.41	0.40	112	109	20-123	3	20	
Benzo(a)anthracene	mg/kg	ND	.37	.37	0.26	0.22	70	59	23-124	17	20	
Benzo(a)pyrene	mg/kg	ND	.37	.37	0.25	0.23	68	63	23-120	8	20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1104383 1104384

Parameter	Units	5098487001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(b)fluoranthene	mg/kg	ND	.37	.37	0.25	0.22	66	60	24-117	10	20	
Benzo(g,h,i)perylene	mg/kg	ND	.37	.37	0.21	0.20	58	55	12-122	4	20	
Benzo(k)fluoranthene	mg/kg	ND	.37	.37	0.25	0.20	69	56	14-123	21	20	R1
Chrysene	mg/kg	146 ug/kg	.37	.37	0.36	0.34	57	53	22-124	4	20	
Dibenz(a,h)anthracene	mg/kg	ND	.37	.37	0.23	0.20	62	55	26-113	12	20	
Fluoranthene	mg/kg	246 ug/kg	.37	.37	0.45	0.42	55	48	21-125	6	20	
Fluorene	mg/kg	254 ug/kg	.37	.37	0.45	0.41	52	43	19-127	8	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	.37	.37	0.21	0.20	58	54	15-121	7	20	
Naphthalene	mg/kg	ND	.37	.37	0.25	0.22	63	53	15-125	16	20	D3
Phenanthrene	mg/kg	940 ug/kg	.37	.37	1.0	0.98	17	10	10-139	3	20	
Pyrene	mg/kg	211 ug/kg	.37	.37	0.36	0.37	40	44	17-132	4	20	
2-Fluorobiphenyl (S)	%.						66	52	38-110			
p-Terphenyl-d14 (S)	%.						56	57	32-111			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35937 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5098316009, 5098316014, 5098316030

METHOD BLANK: 1100858 Matrix: Solid
Associated Lab Samples: 5098316009, 5098316014, 5098316030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	05/28/14 23:56	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	05/28/14 23:56	
2,4-Dichlorophenol	mg/kg	ND	0.33	05/28/14 23:56	
2,4-Dimethylphenol	mg/kg	ND	0.33	05/28/14 23:56	
2,4-Dinitrophenol	mg/kg	ND	1.6	05/28/14 23:56	
2,4-Dinitrotoluene	mg/kg	ND	0.33	05/28/14 23:56	
2,6-Dinitrotoluene	mg/kg	ND	0.33	05/28/14 23:56	
2-Chloronaphthalene	mg/kg	ND	0.33	05/28/14 23:56	
2-Chlorophenol	mg/kg	ND	0.33	05/28/14 23:56	
2-Methylnaphthalene	mg/kg	ND	0.33	05/28/14 23:56	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	05/28/14 23:56	
2-Nitroaniline	mg/kg	ND	1.6	05/28/14 23:56	
2-Nitrophenol	mg/kg	ND	0.33	05/28/14 23:56	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	05/28/14 23:56	
3,3'-Dichlorobenzidine	mg/kg	ND	0.66	05/28/14 23:56	
3-Nitroaniline	mg/kg	ND	1.6	05/28/14 23:56	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	05/28/14 23:56	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	05/28/14 23:56	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	05/28/14 23:56	
4-Chloroaniline	mg/kg	ND	0.66	05/28/14 23:56	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	05/28/14 23:56	
4-Nitroaniline	mg/kg	ND	1.6	05/28/14 23:56	
4-Nitrophenol	mg/kg	ND	1.6	05/28/14 23:56	
Acenaphthene	mg/kg	ND	0.33	05/28/14 23:56	
Acenaphthylene	mg/kg	ND	0.33	05/28/14 23:56	
Anthracene	mg/kg	ND	0.33	05/28/14 23:56	
Benzo(a)anthracene	mg/kg	ND	0.33	05/28/14 23:56	
Benzo(a)pyrene	mg/kg	ND	0.17	05/28/14 23:56	
Benzo(b)fluoranthene	mg/kg	ND	0.33	05/28/14 23:56	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	05/28/14 23:56	
Benzo(k)fluoranthene	mg/kg	ND	0.33	05/28/14 23:56	
Benzyl alcohol	mg/kg	ND	0.66	05/28/14 23:56	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	05/28/14 23:56	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	05/28/14 23:56	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	05/28/14 23:56	
bis(2chloro1methylethyl) ether	mg/kg	ND	0.33	05/28/14 23:56	
Butylbenzylphthalate	mg/kg	ND	0.33	05/28/14 23:56	
Chrysene	mg/kg	ND	0.33	05/28/14 23:56	
Di-n-butylphthalate	mg/kg	ND	0.33	05/28/14 23:56	
Di-n-octylphthalate	mg/kg	ND	0.33	05/28/14 23:56	
Dibenz(a,h)anthracene	mg/kg	ND	0.17	05/28/14 23:56	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

METHOD BLANK: 1100858 Matrix: Solid
Associated Lab Samples: 5098316009, 5098316014, 5098316030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	mg/kg	ND	0.33	05/28/14 23:56	
Diethylphthalate	mg/kg	ND	0.33	05/28/14 23:56	
Dimethylphthalate	mg/kg	ND	0.33	05/28/14 23:56	
Fluoranthene	mg/kg	ND	0.33	05/28/14 23:56	
Fluorene	mg/kg	ND	0.33	05/28/14 23:56	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	05/28/14 23:56	
Hexachlorobenzene	mg/kg	ND	0.33	05/28/14 23:56	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	05/28/14 23:56	
Hexachloroethane	mg/kg	ND	0.33	05/28/14 23:56	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	05/28/14 23:56	
Isophorone	mg/kg	ND	0.33	05/28/14 23:56	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	05/28/14 23:56	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	05/28/14 23:56	
Naphthalene	mg/kg	ND	0.33	05/28/14 23:56	
Nitrobenzene	mg/kg	ND	0.33	05/28/14 23:56	
Pentachlorophenol	mg/kg	ND	1.6	05/28/14 23:56	
Phenanthrene	mg/kg	ND	0.33	05/28/14 23:56	
Phenol	mg/kg	ND	0.33	05/28/14 23:56	
Pyrene	mg/kg	ND	0.33	05/28/14 23:56	
2,4,6-Tribromophenol (S)	%.	79	16-122	05/28/14 23:56	
2-Fluorobiphenyl (S)	%.	69	31-94	05/28/14 23:56	
2-Fluorophenol (S)	%.	70	24-104	05/28/14 23:56	
Nitrobenzene-d5 (S)	%.	66	28-101	05/28/14 23:56	
p-Terphenyl-d14 (S)	%.	93	26-110	05/28/14 23:56	
Phenol-d5 (S)	%.	70	28-101	05/28/14 23:56	

LABORATORY CONTROL SAMPLE: 1100859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	2.5	74	39-103	
2-Chlorophenol	mg/kg	3.3	2.0	59	38-96	
2-Methylnaphthalene	mg/kg	3.3	2.7	80	36-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.2	65	38-104	
4-Nitrophenol	mg/kg	3.3	2.5	75	34-104	
Acenaphthene	mg/kg	3.3	2.2	67	43-99	
Acenaphthylene	mg/kg	3.3	2.3	68	42-101	
Anthracene	mg/kg	3.3	2.4	71	46-107	
Benzo(a)anthracene	mg/kg	3.3	2.4	73	45-108	
Benzo(a)pyrene	mg/kg	3.3	2.8	85	47-113	
Benzo(b)fluoranthene	mg/kg	3.3	2.6	78	41-110	
Benzo(g,h,i)perylene	mg/kg	3.3	2.4	73	42-112	
Benzo(k)fluoranthene	mg/kg	3.3	2.7	80	44-107	
Chrysene	mg/kg	3.3	2.4	73	43-103	
Dibenz(a,h)anthracene	mg/kg	3.3	2.6	77	43-110	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1100859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	3.3	2.5	75	45-105	
Fluorene	mg/kg	3.3	2.3	68	42-103	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	2.5	75	43-111	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.2	65	37-96	
Naphthalene	mg/kg	3.3	2.0	61	44-100	
Pentachlorophenol	mg/kg	3.3	2.4	71	21-103	
Phenanthrene	mg/kg	3.3	2.3	70	44-104	
Phenol	mg/kg	3.3	2.3	69	37-101	
Pyrene	mg/kg	3.3	2.6	77	44-105	
2,4,6-Tribromophenol (S)	%.			73	16-122	
2-Fluorobiphenyl (S)	%.			65	31-94	
2-Fluorophenol (S)	%.			67	24-104	
Nitrobenzene-d5 (S)	%.			64	28-101	
p-Terphenyl-d14 (S)	%.			86	26-110	
Phenol-d5 (S)	%.			68	28-101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1100930 1100931

Parameter	Units	5098190003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	4	4	2.9	2.5	73	62	15-102	16	20	
2-Chlorophenol	mg/kg	ND	4	4	2.1	2.2	53	54	22-96	3	20	
2-Methylnaphthalene	mg/kg	ND	4	4	2.3	2.1	57	52	14-107	9	20	
4-Chloro-3-methylphenol	mg/kg	ND	4	4	2.8	2.6	71	63	21-105	11	20	
4-Nitrophenol	mg/kg	ND	4	4	2.7	2.4	67	59	12-107	11	20	
Acenaphthene	mg/kg	ND	4	4	2.7	2.4	67	59	19-110	12	20	
Acenaphthylene	mg/kg	ND	4	4	2.7	2.5	68	62	21-106	9	20	
Anthracene	mg/kg	ND	4	4	3.0	2.8	74	71	22-112	5	20	
Benzo(a)anthracene	mg/kg	ND	4	4	3.2	3.3	80	83	13-116	4	20	
Benzo(a)pyrene	mg/kg	ND	4	4	3.1	3.1	76	76	11-119	0	20	
Benzo(b)fluoranthene	mg/kg	ND	4	4	2.9	3.0	73	73	10-126	1	20	
Benzo(g,h,i)perylene	mg/kg	ND	4	4	2.8	2.7	70	66	10-114	5	20	
Benzo(k)fluoranthene	mg/kg	ND	4	4	3.1	3.2	78	80	10-117	3	20	
Chrysene	mg/kg	ND	4	4	3.2	3.4	81	83	14-107	4	20	
Dibenz(a,h)anthracene	mg/kg	ND	4	4	2.9	2.8	73	69	10-119	5	20	
Fluoranthene	mg/kg	ND	4	4	3.6	4.1	90	101	17-110	12	20	
Fluorene	mg/kg	ND	4	4	3.0	2.7	76	67	17-115	12	20	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	4	4	2.9	2.8	73	70	11-111	4	20	
N-Nitroso-di-n-propylamine	mg/kg	ND	4	4	2.2	2.2	56	55	18-103	0	20	
Naphthalene	mg/kg	ND	4	4	2.1	2.1	53	53	16-102	0	20	
Pentachlorophenol	mg/kg	ND	4	4	3.2	2.8	80	70	10-100	13	20	
Phenanthrene	mg/kg	ND	4	4	3.2	3.2	81	80	10-128	1	20	
Phenol	mg/kg	ND	4	4	2.2	2.3	55	56	22-97	3	20	
Pyrene	mg/kg	ND	4	4	3.6	3.8	90	93	10-123	4	20	
2,4,6-Tribromophenol (S)	%.						81	69	16-122			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1100930 1100931

Parameter	Units	5098190003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Fluorobiphenyl (S)	%.						70	64	31-94			
2-Fluorophenol (S)	%.						53	55	24-104			
Nitrobenzene-d5 (S)	%.						51	51	26-98			
p-Terphenyl-d14 (S)	%.						90	77	26-110			
Phenol-d5 (S)	%.						56	58	28-101			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35950 | Analysis Method: EPA 8270
QC Batch Method: EPA 3546 | Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5098316025, 5098316031

METHOD BLANK: 1101816 | Matrix: Solid
Associated Lab Samples: 5098316025, 5098316031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	05/30/14 23:26	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	05/30/14 23:26	
2,4-Dichlorophenol	mg/kg	ND	0.33	05/30/14 23:26	
2,4-Dimethylphenol	mg/kg	ND	0.33	05/30/14 23:26	
2,4-Dinitrophenol	mg/kg	ND	1.6	05/30/14 23:26	
2,4-Dinitrotoluene	mg/kg	ND	0.33	05/30/14 23:26	
2,6-Dinitrotoluene	mg/kg	ND	0.33	05/30/14 23:26	
2-Chloronaphthalene	mg/kg	ND	0.33	05/30/14 23:26	
2-Chlorophenol	mg/kg	ND	0.33	05/30/14 23:26	
2-Methylnaphthalene	mg/kg	ND	0.33	05/30/14 23:26	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	05/30/14 23:26	
2-Nitroaniline	mg/kg	ND	1.6	05/30/14 23:26	
2-Nitrophenol	mg/kg	ND	0.33	05/30/14 23:26	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	05/30/14 23:26	
3,3'-Dichlorobenzidine	mg/kg	ND	0.66	05/30/14 23:26	
3-Nitroaniline	mg/kg	ND	1.6	05/30/14 23:26	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	05/30/14 23:26	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	05/30/14 23:26	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	05/30/14 23:26	
4-Chloroaniline	mg/kg	ND	0.66	05/30/14 23:26	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	05/30/14 23:26	
4-Nitroaniline	mg/kg	ND	1.6	05/30/14 23:26	
4-Nitrophenol	mg/kg	ND	1.6	05/30/14 23:26	
Acenaphthene	mg/kg	ND	0.33	05/30/14 23:26	
Acenaphthylene	mg/kg	ND	0.33	05/30/14 23:26	
Anthracene	mg/kg	ND	0.33	05/30/14 23:26	
Benzo(a)anthracene	mg/kg	ND	0.33	05/30/14 23:26	
Benzo(a)pyrene	mg/kg	ND	0.17	05/30/14 23:26	
Benzo(b)fluoranthene	mg/kg	ND	0.33	05/30/14 23:26	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	05/30/14 23:26	
Benzo(k)fluoranthene	mg/kg	ND	0.33	05/30/14 23:26	
Benzyl alcohol	mg/kg	ND	0.66	05/30/14 23:26	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	05/30/14 23:26	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	05/30/14 23:26	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	05/30/14 23:26	
bis(2chloro1methylethyl) ether	mg/kg	ND	0.33	05/30/14 23:26	
Butylbenzylphthalate	mg/kg	ND	0.33	05/30/14 23:26	
Chrysene	mg/kg	ND	0.33	05/30/14 23:26	
Di-n-butylphthalate	mg/kg	ND	0.33	05/30/14 23:26	
Di-n-octylphthalate	mg/kg	ND	0.33	05/30/14 23:26	
Dibenz(a,h)anthracene	mg/kg	ND	0.17	05/30/14 23:26	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

METHOD BLANK: 1101816 Matrix: Solid
Associated Lab Samples: 5098316025, 5098316031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	mg/kg	ND	0.33	05/30/14 23:26	
Diethylphthalate	mg/kg	ND	0.33	05/30/14 23:26	
Dimethylphthalate	mg/kg	ND	0.33	05/30/14 23:26	
Fluoranthene	mg/kg	ND	0.33	05/30/14 23:26	
Fluorene	mg/kg	ND	0.33	05/30/14 23:26	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	05/30/14 23:26	
Hexachlorobenzene	mg/kg	ND	0.33	05/30/14 23:26	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	05/30/14 23:26	
Hexachloroethane	mg/kg	ND	0.33	05/30/14 23:26	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	05/30/14 23:26	
Isophorone	mg/kg	ND	0.33	05/30/14 23:26	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	05/30/14 23:26	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	05/30/14 23:26	
Naphthalene	mg/kg	ND	0.33	05/30/14 23:26	
Nitrobenzene	mg/kg	ND	0.33	05/30/14 23:26	
Pentachlorophenol	mg/kg	ND	1.6	05/30/14 23:26	
Phenanthrene	mg/kg	ND	0.33	05/30/14 23:26	
Phenol	mg/kg	ND	0.33	05/30/14 23:26	
Pyrene	mg/kg	ND	0.33	05/30/14 23:26	
2,4,6-Tribromophenol (S)	%.	82	16-122	05/30/14 23:26	
2-Fluorobiphenyl (S)	%.	82	31-94	05/30/14 23:26	
2-Fluorophenol (S)	%.	76	24-104	05/30/14 23:26	
Nitrobenzene-d5 (S)	%.	79	28-101	05/30/14 23:26	
p-Terphenyl-d14 (S)	%.	107	26-110	05/30/14 23:26	
Phenol-d5 (S)	%.	81	28-101	05/30/14 23:26	

LABORATORY CONTROL SAMPLE: 1101817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	3.0	91	39-103	
2-Chlorophenol	mg/kg	3.3	2.5	74	38-96	
2-Methylnaphthalene	mg/kg	3.3	2.6	77	36-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.8	85	38-104	
4-Nitrophenol	mg/kg	3.3	2.8	84	34-104	
Acenaphthene	mg/kg	3.3	2.8	83	43-99	
Acenaphthylene	mg/kg	3.3	2.6	78	42-101	
Anthracene	mg/kg	3.3	2.9	88	46-107	
Benzo(a)anthracene	mg/kg	3.3	2.9	86	45-108	
Benzo(a)pyrene	mg/kg	3.3	2.9	86	47-113	
Benzo(b)fluoranthene	mg/kg	3.3	2.9	87	41-110	
Benzo(g,h,i)perylene	mg/kg	3.3	2.6	79	42-112	
Benzo(k)fluoranthene	mg/kg	3.3	3.0	89	44-107	
Chrysene	mg/kg	3.3	3.0	91	43-103	
Dibenz(a,h)anthracene	mg/kg	3.3	2.8	85	43-110	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1101817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	3.3	2.9	87	45-105	
Fluorene	mg/kg	3.3	2.9	86	42-103	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	2.7	81	43-111	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.5	74	37-96	
Naphthalene	mg/kg	3.3	2.5	74	44-100	
Pentachlorophenol	mg/kg	3.3	3.2	96	21-103	
Phenanthrene	mg/kg	3.3	2.9	86	44-104	
Phenol	mg/kg	3.3	2.7	81	37-101	
Pyrene	mg/kg	3.3	2.9	86	44-105	
2,4,6-Tribromophenol (S)	%.			84	16-122	
2-Fluorobiphenyl (S)	%.			75	31-94	
2-Fluorophenol (S)	%.			70	24-104	
Nitrobenzene-d5 (S)	%.			75	28-101	
p-Terphenyl-d14 (S)	%.			97	26-110	
Phenol-d5 (S)	%.			70	28-101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101818 1101819

Parameter	Units	5098316025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	3.8	3.8	3.4	2.7	89	70	15-102	25	20	R1
2-Chlorophenol	mg/kg	ND	3.8	3.8	2.5	2.0	65	53	22-96	22	20	R1
2-Methylnaphthalene	mg/kg	ND	3.8	3.8	2.9	2.3	75	60	14-107	23	20	R1
4-Chloro-3-methylphenol	mg/kg	ND	3.8	3.8	3.0	2.4	77	61	21-105	23	20	R1
4-Nitrophenol	mg/kg	ND	3.8	3.8	3.2	2.4	82	62	12-107	29	20	R1
Acenaphthene	mg/kg	ND	3.8	3.8	3.2	2.5	83	65	19-110	24	20	R1
Acenaphthylene	mg/kg	ND	3.8	3.8	3.0	2.3	77	59	21-106	27	20	R1
Anthracene	mg/kg	ND	3.8	3.8	3.4	2.4	87	61	22-112	35	20	R1
Benzo(a)anthracene	mg/kg	ND	3.8	3.8	3.0	2.2	77	55	13-116	34	20	R1
Benzo(a)pyrene	mg/kg	ND	3.8	3.8	2.9	1.9	75	47	11-119	45	20	R1
Benzo(b)fluoranthene	mg/kg	ND	3.8	3.8	2.8	1.8	70	46	10-126	40	20	R1
Benzo(g,h,i)perylene	mg/kg	ND	3.8	3.8	2.7	1.6	69	41	10-114	50	20	R1
Benzo(k)fluoranthene	mg/kg	ND	3.8	3.8	3.3	2.3	84	57	10-117	38	20	R1
Chrysene	mg/kg	ND	3.8	3.8	3.3	2.3	83	58	14-107	34	20	R1
Dibenz(a,h)anthracene	mg/kg	ND	3.8	3.8	2.9	1.7	76	45	10-119	51	20	R1
Fluoranthene	mg/kg	ND	3.8	3.8	3.3	2.4	82	60	17-110	31	20	R1
Fluorene	mg/kg	ND	3.8	3.8	3.2	2.5	82	64	17-115	25	20	R1
Indeno(1,2,3-cd)pyrene	mg/kg	ND	3.8	3.8	2.8	1.7	70	42	11-111	50	20	R1
N-Nitroso-di-n-propylamine	mg/kg	ND	3.8	3.8	3.0	2.2	77	58	18-103	29	20	R1
Naphthalene	mg/kg	ND	3.8	3.8	2.9	2.2	76	58	16-102	27	20	R1
Pentachlorophenol	mg/kg	ND	3.8	3.8	3.6	2.6	94	67	10-100	34	20	R1
Phenanthrene	mg/kg	ND	3.8	3.8	3.3	2.5	82	61	10-128	29	20	R1
Phenol	mg/kg	ND	3.8	3.8	2.8	2.1	73	55	22-97	29	20	R1
Pyrene	mg/kg	ND	3.8	3.8	3.3	2.4	82	60	10-123	31	20	R1
2,4,6-Tribromophenol (S)	%.						76	59	16-122			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101818 1101819

Parameter	Units	5098316025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Fluorobiphenyl (S)	%.						74	57	31-94			
2-Fluorophenol (S)	%.						60	46	24-104			
Nitrobenzene-d5 (S)	%.						80	58	26-98			
p-Terphenyl-d14 (S)	%.						90	67	26-110			
Phenol-d5 (S)	%.						66	50	28-101			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1101820 1101821

Parameter	Units	5098317004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	3.8	3.8	3.1	3.3	82	86	15-102	5	20	
2-Chlorophenol	mg/kg	ND	3.8	3.8	3.0	2.6	78	68	22-96	13	20	
2-Methylnaphthalene	mg/kg	ND	3.8	3.8	3.8	2.8	97	71	14-107	30	20	R1
4-Chloro-3-methylphenol	mg/kg	ND	3.8	3.8	3.4	3.0	88	79	21-105	10	20	
4-Nitrophenol	mg/kg	ND	3.8	3.8	3.3	3.3	86	86	12-107	1	20	
Acenaphthene	mg/kg	0.19J	3.8	3.8	4.3	3.3	107	81	19-110	26	20	R1
Acenaphthylene	mg/kg	ND	3.8	3.8	3.7	3.0	93	75	21-106	20	20	
Anthracene	mg/kg	1.1	3.8	3.8	5.5	3.8	114	71	22-112	36	20	M0,R1
Benzo(a)anthracene	mg/kg	0.66	3.8	3.8	5.3	3.7	121	79	13-116	36	20	M0,R1
Benzo(a)pyrene	mg/kg	0.49	3.8	3.8	4.6	3.5	107	79	11-119	26	20	R1
Benzo(b)fluoranthene	mg/kg	0.43	3.8	3.8	4.0	3.1	93	70	10-126	24	20	R1
Benzo(g,h,i)perylene	mg/kg	0.21J	3.8	3.8	3.4	2.9	84	70	10-114	17	20	
Benzo(k)fluoranthene	mg/kg	0.45	3.8	3.8	5.1	3.8	122	87	10-117	30	20	M0,R1
Chrysene	mg/kg	0.60	3.8	3.8	5.3	3.7	123	82	14-107	35	20	M0,R1
Dibenz(a,h)anthracene	mg/kg	ND	3.8	3.8	3.4	3.0	88	78	10-119	12	20	
Fluoranthene	mg/kg	1.8	3.8	3.8	8.2	4.8	169	80	17-110	52	20	E,M0, R1
Fluorene	mg/kg	0.41	3.8	3.8	5.9	3.7	144	87	17-115	45	20	M0,R1
Indeno(1,2,3-cd)pyrene	mg/kg	0.21J	3.8	3.8	3.6	3.0	87	73	11-111	17	20	
N-Nitroso-di-n-propylamine	mg/kg	ND	3.8	3.8	3.0	2.6	77	69	18-103	11	20	
Naphthalene	mg/kg	ND	3.8	3.8	3.8	2.8	95	68	16-102	31	20	R1
Pentachlorophenol	mg/kg	ND	3.8	3.8	3.9	3.9	101	101	10-100	1	20	M0
Phenanthrene	mg/kg	1.3	3.8	3.8	8.3	4.7	182	87	10-128	56	20	E,M0, R1
Phenol	mg/kg	ND	3.8	3.8	3.2	3.0	85	78	22-97	7	20	
Pyrene	mg/kg	1.3	3.8	3.8	6.9	4.3	147	79	10-123	46	20	M0,R1
2,4,6-Tribromophenol (S)	%.						90	86	16-122			
2-Fluorobiphenyl (S)	%.						82	74	31-94			
2-Fluorophenol (S)	%.						74	64	24-104			
Nitrobenzene-d5 (S)	%.						83	72	26-98			
p-Terphenyl-d14 (S)	%.						98	91	26-110			
Phenol-d5 (S)	%.						75	66	28-101			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: OEXT/35993 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5098316004, 5098316006, 5098316010

METHOD BLANK: 1103803 Matrix: Solid
Associated Lab Samples: 5098316004, 5098316006, 5098316010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	ND	0.33	06/06/14 19:16	
2,4,6-Trichlorophenol	mg/kg	ND	0.33	06/06/14 19:16	
2,4-Dichlorophenol	mg/kg	ND	0.33	06/06/14 19:16	
2,4-Dimethylphenol	mg/kg	ND	0.33	06/06/14 19:16	
2,4-Dinitrophenol	mg/kg	ND	1.6	06/06/14 19:16	
2,4-Dinitrotoluene	mg/kg	ND	0.33	06/06/14 19:16	
2,6-Dinitrotoluene	mg/kg	ND	0.33	06/06/14 19:16	
2-Chloronaphthalene	mg/kg	ND	0.33	06/06/14 19:16	
2-Chlorophenol	mg/kg	ND	0.33	06/06/14 19:16	
2-Methylnaphthalene	mg/kg	ND	0.33	06/06/14 19:16	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.33	06/06/14 19:16	
2-Nitroaniline	mg/kg	ND	1.6	06/06/14 19:16	
2-Nitrophenol	mg/kg	ND	0.33	06/06/14 19:16	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.66	06/06/14 19:16	
3,3'-Dichlorobenzidine	mg/kg	ND	0.66	06/06/14 19:16	
3-Nitroaniline	mg/kg	ND	1.6	06/06/14 19:16	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	06/06/14 19:16	
4-Bromophenylphenyl ether	mg/kg	ND	0.33	06/06/14 19:16	
4-Chloro-3-methylphenol	mg/kg	ND	0.66	06/06/14 19:16	
4-Chloroaniline	mg/kg	ND	0.66	06/06/14 19:16	
4-Chlorophenylphenyl ether	mg/kg	ND	0.33	06/06/14 19:16	
4-Nitroaniline	mg/kg	ND	1.6	06/06/14 19:16	
4-Nitrophenol	mg/kg	ND	1.6	06/06/14 19:16	
Acenaphthene	mg/kg	ND	0.33	06/06/14 19:16	
Acenaphthylene	mg/kg	ND	0.33	06/06/14 19:16	
Anthracene	mg/kg	ND	0.33	06/06/14 19:16	
Benzo(a)anthracene	mg/kg	ND	0.33	06/06/14 19:16	
Benzo(a)pyrene	mg/kg	ND	0.17	06/06/14 19:16	
Benzo(b)fluoranthene	mg/kg	ND	0.33	06/06/14 19:16	
Benzo(g,h,i)perylene	mg/kg	ND	0.33	06/06/14 19:16	
Benzo(k)fluoranthene	mg/kg	ND	0.33	06/06/14 19:16	
Benzyl alcohol	mg/kg	ND	0.66	06/06/14 19:16	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.33	06/06/14 19:16	
bis(2-Chloroethyl) ether	mg/kg	ND	0.33	06/06/14 19:16	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.33	06/06/14 19:16	
bis(2chloro1methylethyl) ether	mg/kg	ND	0.33	06/06/14 19:16	
Butylbenzylphthalate	mg/kg	ND	0.33	06/06/14 19:16	
Chrysene	mg/kg	ND	0.33	06/06/14 19:16	
Di-n-butylphthalate	mg/kg	ND	0.33	06/06/14 19:16	
Di-n-octylphthalate	mg/kg	ND	0.33	06/06/14 19:16	
Dibenz(a,h)anthracene	mg/kg	ND	0.17	06/06/14 19:16	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

METHOD BLANK: 1103803 Matrix: Solid
Associated Lab Samples: 5098316004, 5098316006, 5098316010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	mg/kg	ND	0.33	06/06/14 19:16	
Diethylphthalate	mg/kg	ND	0.33	06/06/14 19:16	
Dimethylphthalate	mg/kg	ND	0.33	06/06/14 19:16	
Fluoranthene	mg/kg	ND	0.33	06/06/14 19:16	
Fluorene	mg/kg	ND	0.33	06/06/14 19:16	
Hexachloro-1,3-butadiene	mg/kg	ND	0.33	06/06/14 19:16	
Hexachlorobenzene	mg/kg	ND	0.33	06/06/14 19:16	
Hexachlorocyclopentadiene	mg/kg	ND	0.33	06/06/14 19:16	
Hexachloroethane	mg/kg	ND	0.33	06/06/14 19:16	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.33	06/06/14 19:16	
Isophorone	mg/kg	ND	0.33	06/06/14 19:16	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.33	06/06/14 19:16	
N-Nitrosodiphenylamine	mg/kg	ND	0.33	06/06/14 19:16	
Naphthalene	mg/kg	ND	0.33	06/06/14 19:16	
Nitrobenzene	mg/kg	ND	0.33	06/06/14 19:16	
Pentachlorophenol	mg/kg	ND	1.6	06/06/14 19:16	
Phenanthrene	mg/kg	ND	0.33	06/06/14 19:16	
Phenol	mg/kg	ND	0.33	06/06/14 19:16	
Pyrene	mg/kg	ND	0.33	06/06/14 19:16	
2,4,6-Tribromophenol (S)	%.	80	16-122	06/06/14 19:16	
2-Fluorobiphenyl (S)	%.	69	31-94	06/06/14 19:16	
2-Fluorophenol (S)	%.	75	24-104	06/06/14 19:16	
Nitrobenzene-d5 (S)	%.	74	28-101	06/06/14 19:16	
p-Terphenyl-d14 (S)	%.	105	26-110	06/06/14 19:16	
Phenol-d5 (S)	%.	76	28-101	06/06/14 19:16	

LABORATORY CONTROL SAMPLE: 1103804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	2.4	71	39-103	
2-Chlorophenol	mg/kg	3.3	2.2	67	38-96	
2-Methylnaphthalene	mg/kg	3.3	2.2	66	36-94	
4-Chloro-3-methylphenol	mg/kg	3.3	2.3	69	38-104	
4-Nitrophenol	mg/kg	3.3	2.4	72	34-104	
Acenaphthene	mg/kg	3.3	2.3	68	43-99	
Acenaphthylene	mg/kg	3.3	2.3	69	42-101	
Anthracene	mg/kg	3.3	2.4	72	46-107	
Benzo(a)anthracene	mg/kg	3.3	2.5	74	45-108	
Benzo(a)pyrene	mg/kg	3.3	3.1	94	47-113	
Benzo(b)fluoranthene	mg/kg	3.3	3.2	97	41-110	
Benzo(g,h,i)perylene	mg/kg	3.3	2.9	87	42-112	
Benzo(k)fluoranthene	mg/kg	3.3	2.9	86	44-107	
Chrysene	mg/kg	3.3	2.5	74	43-103	
Dibenz(a,h)anthracene	mg/kg	3.3	3.1	93	43-110	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

LABORATORY CONTROL SAMPLE: 1103804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	mg/kg	3.3	2.6	79	45-105	
Fluorene	mg/kg	3.3	2.4	73	42-103	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	3.0	89	43-111	
N-Nitroso-di-n-propylamine	mg/kg	3.3	2.3	70	37-96	
Naphthalene	mg/kg	3.3	2.2	66	44-100	
Pentachlorophenol	mg/kg	3.3	1.9	58	21-103	
Phenanthrene	mg/kg	3.3	2.4	71	44-104	
Phenol	mg/kg	3.3	2.2	67	37-101	
Pyrene	mg/kg	3.3	2.7	80	44-105	
2,4,6-Tribromophenol (S)	%.			77	16-122	
2-Fluorobiphenyl (S)	%.			69	31-94	
2-Fluorophenol (S)	%.			69	24-104	
Nitrobenzene-d5 (S)	%.			70	28-101	
p-Terphenyl-d14 (S)	%.			95	26-110	
Phenol-d5 (S)	%.			69	28-101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103805 1103806

Parameter	Units	5098549014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	mg/kg	ND	4.4	4.4	2.6	2.4	59	55	15-102	8	20	
2-Chlorophenol	mg/kg	ND	4.4	4.4	2.9	2.7	65	61	22-96	6	20	
2-Methylnaphthalene	mg/kg	ND	4.4	4.4	3.4	3.3	77	75	14-107	3	20	
4-Chloro-3-methylphenol	mg/kg	ND	4.4	4.4	2.9J	2.6J	65	60	21-105		20	
4-Nitrophenol	mg/kg	ND	4.4	4.4	ND	ND	54	51	12-107		20	
Acenaphthene	mg/kg	ND	4.4	4.4	4.2	4.0	78	75	19-110	3	20	
Acenaphthylene	mg/kg	ND	4.4	4.4	4.2	3.8	78	68	21-106	11	20	
Anthracene	mg/kg	2.6	4.4	4.4	7.9	5.9	120	76	22-112	29	20	M0,R1
Benzo(a)anthracene	mg/kg	6.1	4.4	4.4	12.2	9.2	139	71	13-116	28	20	M0,R1
Benzo(a)pyrene	mg/kg	6.7	4.4	4.4	13.7	10.1	159	78	11-119	30	20	M0,R1
Benzo(b)fluoranthene	mg/kg	5.7	4.4	4.4	12.7	8.8	160	71	10-126	36	20	M0,R1
Benzo(g,h,i)perylene	mg/kg	3.4	4.4	4.4	8.4	6.5	114	71	10-114	26	20	R1
Benzo(k)fluoranthene	mg/kg	6.2	4.4	4.4	12.4	10.1	142	90	10-117	20	20	M0,R1
Chrysene	mg/kg	5.7	4.4	4.4	11.8	9.0	139	75	14-107	27	20	M0,R1
Dibenz(a,h)anthracene	mg/kg	1.2	4.4	4.4	6.0	4.9	108	84	10-119	20	20	
Fluoranthene	mg/kg	13.6	4.4	4.4	22.7	17.8	209	98	17-110	24	20	M0,R1
Fluorene	mg/kg	1.5J	4.4	4.4	5.7	5.0	96	81	17-115	13	20	
Indeno(1,2,3-cd)pyrene	mg/kg	3.3	4.4	4.4	8.5	6.5	117	73	11-111	26	20	M0,R1
N-Nitroso-di-n-propylamine	mg/kg	ND	4.4	4.4	2.9	2.8	67	64	18-103	5	20	
Naphthalene	mg/kg	ND	4.4	4.4	3.4	3.1	72	65	16-102	9	20	
Pentachlorophenol	mg/kg	ND	4.4	4.4	ND	ND	67	63	10-100		20	
Phenanthrene	mg/kg	10.1	4.4	4.4	19.4	15.4	213	122	10-128	23	20	M0,R1
Phenol	mg/kg	ND	4.4	4.4	2.9	2.7	66	62	22-97	8	20	5d
Pyrene	mg/kg	10.6	4.4	4.4	18.4	14.3	179	84	10-123	25	20	M0,R1
2,4,6-Tribromophenol (S)	%.						65	60	16-122			

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REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1103805 1103806

Parameter	Units	5098549014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Fluorobiphenyl (S)	%.						68	65	31-94			
2-Fluorophenol (S)	%.						65	60	24-104			
Nitrobenzene-d5 (S)	%.						65	60	26-98			
p-Terphenyl-d14 (S)	%.						81	74	26-110			
Phenol-d5 (S)	%.						67	62	28-101			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: PMST/9536 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098316001, 5098316003, 5098316004, 5098316005

SAMPLE DUPLICATE: 1103998

Parameter	Units	5098263016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	10.5	7	5	R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: PMST/9537 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098316007, 5098316008, 5098316009, 5098316010, 5098316011, 5098316012, 5098316013, 5098316014, 5098316015, 5098316016, 5098316017, 5098316018, 5098316019, 5098316020, 5098316021, 5098316022, 5098316023, 5098316024, 5098316025, 5098316026

SAMPLE DUPLICATE: 1104000

Parameter	Units	5098316009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.3	18.5	1	5	

SAMPLE DUPLICATE: 1104001

Parameter	Units	5098316020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.8	14.3	37	5	R1

SAMPLE DUPLICATE: 1104002

Parameter	Units	5098316025 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.1	15.2	7	5	R1

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: PMST/9541 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098316027, 5098316028, 5098316029, 5098316030, 5098316031, 5098316032, 5098316033, 5098316035, 5098316036

SAMPLE DUPLICATE: 1104477

Parameter	Units	5098316027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.2	16.2	6	5	R1

SAMPLE DUPLICATE: 1104644

Parameter	Units	5098316029 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.7	22.4	6	5	R1

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: PMST/9546
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098316006

SAMPLE DUPLICATE: 1104788

Parameter	Units	5098566004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.4	10.0	13	5	R1

SAMPLE DUPLICATE: 1104789

Parameter	Units	5098631008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.19	0.19	1	5	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

QC Batch: PMST/9552
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5098316034

SAMPLE DUPLICATE: 1106041

Parameter	Units	5098316034 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.6	6.8	12	5	R1

SAMPLE DUPLICATE: 1106042

Parameter	Units	5098746003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.5	9.2	3	5	

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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
PASI-N	Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

10d	RPD is outside control limits due to sample non-homogeneity. FRW 6-5-14
11d	Surrogate recovery outside laboratory control limits. Data accepted based on valid recovery of surrogates in MS (1103760). SRS 6/12/14
1d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 05/30/14
2d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/02/14
3d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/03/14
4d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/05/14
5d	Due to the extract's physical characteristics, the analysis was performed at dilution.SN. 06/10/14
6d	Due to the extract's physical characteristics, the analysis was performed at dilution.SN.06/10/14
7d	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits due to an extraction error. Sample could not be re-extracted within EPA hold time. CEM 06/06/14
8d	RPD is outside control limits due to sample non-homogeneity. FRW 6-2-14
9d	RPD is outside control limits due to sample non-homogeneity. FRW 6-4-14
C2	Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098316009	**SB-8 (1-3)**	EPA 3546	OEXT/35949	EPA 8082	GCSV/12569
5098316011	**SB-9 (0-2)**	EPA 3546	OEXT/35949	EPA 8082	GCSV/12569
5098316021	**SB-10 (0-2)**	EPA 3546	OEXT/35949	EPA 8082	GCSV/12569
5098316035	**SB-8 (1-3) DUP**	EPA 3546	OEXT/35949	EPA 8082	GCSV/12569
5098316004	**SB-14 (0-2)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316006	**SB-25 (0-2)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316010	**SB-22 (1-3)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316012	**SB-26 (1-3)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316014	**SB-16 (4-6)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316015	**SB-16 (4-6) DUP**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316025	**SB-24 (0-2)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316030	**SB-23 (1-4)**	EPA 3546	OEXT/1709	EPA 8151	GCSV/1523
5098316001	**SB-19 (9-10)**	EPA 3050	MPRP/13476	EPA 6010	ICP/15639
5098316003	**SB-13 (1-2)**	EPA 3050	MPRP/13476	EPA 6010	ICP/15639
5098316004	**SB-14 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316005	**SB-2 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316006	**SB-25 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316008	**SB-1 (2-4)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316009	**SB-8 (1-3)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316010	**SB-22 (1-3)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316011	**SB-9 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316012	**SB-26 (1-3)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316013	**SB-27 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316014	**SB-16 (4-6)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316016	**SB-17 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316017	**SB-12 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316018	**SB-12 (0-2) DUP**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316019	**SB-12 (6-7)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316020	**SB-18 (4-6)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316022	**SB-15 (7-8)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316023	**SB-20 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316024	**SB-6 (1-3)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316025	**SB-24 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316026	**SB-5 (0-2)**	EPA 3050	MPRP/13477	EPA 6010	ICP/15674
5098316027	**SB-5 (0-2) DUP**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316028	**SB-21 (2-4)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316029	**SB-7 (4-6)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316030	**SB-23 (1-4)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316032	**SB-4 (0-2)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316033	**SB-3 (1-3)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316034	**SB-11 (0-2)**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316036	**SB-14 (0-2) DUP**	EPA 3050	MPRP/13478	EPA 6010	ICP/15676
5098316001	**SB-19 (9-10)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316003	**SB-13 (1-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316004	**SB-14 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316005	**SB-2 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098316006	**SB-25 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316008	**SB-1 (2-4)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316009	**SB-8 (1-3)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316010	**SB-22 (1-3)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316011	**SB-9 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316012	**SB-26 (1-3)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316013	**SB-27 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316014	**SB-16 (4-6)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316016	**SB-17 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316017	**SB-12 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316018	**SB-12 (0-2) DUP**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316019	**SB-12 (6-7)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316020	**SB-18 (4-6)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316022	**SB-15 (7-8)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316023	**SB-20 (0-2)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316024	**SB-6 (1-3)**	EPA 7471	MERP/5440	EPA 7471	MERC/5967
5098316025	**SB-24 (0-2)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316026	**SB-5 (0-2)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316027	**SB-5 (0-2) DUP**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316028	**SB-21 (2-4)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316029	**SB-7 (4-6)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316030	**SB-23 (1-4)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316032	**SB-4 (0-2)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316033	**SB-3 (1-3)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316034	**SB-11 (0-2)**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316036	**SB-14 (0-2) DUP**	EPA 7471	MERP/5447	EPA 7471	MERC/5953
5098316001	**SB-19 (9-10)**	EPA 3546	OEXT/35955	EPA 8270 by SIM	MSSV/15378
5098316003	**SB-13 (1-2)**	EPA 3546	OEXT/35955	EPA 8270 by SIM	MSSV/15378
5098316004	**SB-14 (0-2)**	EPA 3546	OEXT/35955	EPA 8270 by SIM	MSSV/15378
5098316005	**SB-2 (0-2)**	EPA 3546	OEXT/35955	EPA 8270 by SIM	MSSV/15378
5098316006	**SB-25 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316007	**SB-25 (8-10)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316008	**SB-1 (2-4)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316009	**SB-8 (1-3)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316010	**SB-22 (1-3)**	EPA 3546	OEXT/35988	EPA 8270 by SIM	MSSV/15404
5098316011	**SB-9 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316012	**SB-26 (1-3)**	EPA 3546	OEXT/35988	EPA 8270 by SIM	MSSV/15404
5098316013	**SB-27 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316014	**SB-16 (4-6)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316016	**SB-17 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316017	**SB-12 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316019	**SB-12 (6-7)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316020	**SB-18 (4-6)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316022	**SB-15 (7-8)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316023	**SB-20 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390

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1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098316024	**SB-6 (1-3)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316025	**SB-24 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316026	**SB-5 (0-2)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316028	**SB-21 (2-4)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316029	**SB-7 (4-6)**	EPA 3546	OEXT/36007	EPA 8270 by SIM	MSSV/15415
5098316030	**SB-23 (1-4)**	EPA 3546	OEXT/35964	EPA 8270 by SIM	MSSV/15390
5098316031	**SB-23 (1-4) DUP**	EPA 3546	OEXT/36007	EPA 8270 by SIM	MSSV/15415
5098316032	**SB-4 (0-2)**	EPA 3546	OEXT/36007	EPA 8270 by SIM	MSSV/15415
5098316033	**SB-3 (1-3)**	EPA 3546	OEXT/36007	EPA 8270 by SIM	MSSV/15415
5098316034	**SB-11 (0-2)**	EPA 3546	OEXT/36007	EPA 8270 by SIM	MSSV/15415
5098316004	**SB-14 (0-2)**	EPA 3546	OEXT/35993	EPA 8270	MSSV/15407
5098316006	**SB-25 (0-2)**	EPA 3546	OEXT/35993	EPA 8270	MSSV/15407
5098316009	**SB-8 (1-3)**	EPA 3546	OEXT/35937	EPA 8270	MSSV/15366
5098316010	**SB-22 (1-3)**	EPA 3546	OEXT/35993	EPA 8270	MSSV/15407
5098316014	**SB-16 (4-6)**	EPA 3546	OEXT/35937	EPA 8270	MSSV/15366
5098316025	**SB-24 (0-2)**	EPA 3546	OEXT/35950	EPA 8270	MSSV/15377
5098316030	**SB-23 (1-4)**	EPA 3546	OEXT/35937	EPA 8270	MSSV/15366
5098316031	**SB-23 (1-4) DUP**	EPA 3546	OEXT/35950	EPA 8270	MSSV/15377
5098316001	**SB-19 (9-10)**	ASTM D2974-87	PMST/9536		
5098316003	**SB-13 (1-2)**	ASTM D2974-87	PMST/9536		
5098316004	**SB-14 (0-2)**	ASTM D2974-87	PMST/9536		
5098316005	**SB-2 (0-2)**	ASTM D2974-87	PMST/9536		
5098316006	**SB-25 (0-2)**	ASTM D2974-87	PMST/9546		
5098316007	**SB-25 (8-10)**	ASTM D2974-87	PMST/9537		
5098316008	**SB-1 (2-4)**	ASTM D2974-87	PMST/9537		
5098316009	**SB-8 (1-3)**	ASTM D2974-87	PMST/9537		
5098316010	**SB-22 (1-3)**	ASTM D2974-87	PMST/9537		
5098316011	**SB-9 (0-2)**	ASTM D2974-87	PMST/9537		
5098316012	**SB-26 (1-3)**	ASTM D2974-87	PMST/9537		
5098316013	**SB-27 (0-2)**	ASTM D2974-87	PMST/9537		
5098316014	**SB-16 (4-6)**	ASTM D2974-87	PMST/9537		
5098316015	**SB-16 (4-6) DUP**	ASTM D2974-87	PMST/9537		
5098316016	**SB-17 (0-2)**	ASTM D2974-87	PMST/9537		
5098316017	**SB-12 (0-2)**	ASTM D2974-87	PMST/9537		
5098316018	**SB-12 (0-2) DUP**	ASTM D2974-87	PMST/9537		
5098316019	**SB-12 (6-7)**	ASTM D2974-87	PMST/9537		
5098316020	**SB-18 (4-6)**	ASTM D2974-87	PMST/9537		
5098316021	**SB-10 (0-2)**	ASTM D2974-87	PMST/9537		
5098316022	**SB-15 (7-8)**	ASTM D2974-87	PMST/9537		
5098316023	**SB-20 (0-2)**	ASTM D2974-87	PMST/9537		
5098316024	**SB-6 (1-3)**	ASTM D2974-87	PMST/9537		
5098316025	**SB-24 (0-2)**	ASTM D2974-87	PMST/9537		

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5098316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5098316026	**SB-5 (0-2)**	ASTM D2974-87	PMST/9537		
5098316027	**SB-5 (0-2) DUP**	ASTM D2974-87	PMST/9541		
5098316028	**SB-21 (2-4)**	ASTM D2974-87	PMST/9541		
5098316029	**SB-7 (4-6)**	ASTM D2974-87	PMST/9541		
5098316030	**SB-23 (1-4)**	ASTM D2974-87	PMST/9541		
5098316031	**SB-23 (1-4) DUP**	ASTM D2974-87	PMST/9541		
5098316032	**SB-4 (0-2)**	ASTM D2974-87	PMST/9541		
5098316033	**SB-3 (1-3)**	ASTM D2974-87	PMST/9541		
5098316034	**SB-11 (0-2)**	ASTM D2974-87	PMST/9552		
5098316035	**SB-8 (1-3) DUP**	ASTM D2974-87	PMST/9541		
5098316036	**SB-14 (0-2) DUP**	ASTM D2974-87	PMST/9541		

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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.

J/MS

Page: 1 of 4

1764672

Section A
Required Client Information:
Company: BCA
Address: 6330 E. 75th St. Suite 150
Indianapolis IN 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:
Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CTP
Project Number: 14-127

Section C
Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina
Pace Profile #:

REGULATORY AGENCY
NPDES / GROUND WATER / DRINKING WATER
UST / RCRA / OTHER
Site Location STATE: IN

Section D
Required Client Information

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

SAMPLE ID
(A-Z, 0-9 / ,)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓	PAHs (8270SIM)	METALS (HL)	PCBs	HERBS	SVOCs (PAHs 8270 Full Scan)						Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
																														5098314
1	SB-19 (9-10)	SL	G			5/19/14	0850		1	1									X	X										001
2	SB-19 (2-4)					5/19/14	0845		1	1									X	X										002
3	SB-13 (1-2)					5/19/14	0925		2	2									X	X										003
4	SB-14 (0-2)					5/19/14	1005		5	5									X	X		X	X							004
5	SB-2 (0-2)					5/19/14	1030		2	2									X	X										005
6	SB-25 (0-2)					5/19/14	1130		3	3										X		X	X							006
7	SB-25 (8-10)					5/19/14	1135		1	1									X											007
8	SB-1 (2-4)					5/19/14	1315		2	2								X		X										008
9	SB-8 (1-3)					5/19/14	1345		5	5										X	X		X							MS-MSD on PCB's 009
10	SB-22 (1-3)					5/19/14	1410		5	5										X		X	X							MS-MSD on HERBS 010
11	SB-9 (0-2)					5/19/14	1425		3	3									X	X	X									011
12	SB-26 (1-3)					5/20/14	0740		3	3									X	X		X								012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John Kilmer	5/23/14	3:48	James Jones	5/23/14	3:48	

Carlie Peacock 5-23-14
10:30 5.3 ORIGINAL 4°C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie Dugan
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4

1764671

Section A Required Client Information:
Company: BCA
Address: 11320 E. 75th St. Suite 150
Indianapolis, IN 46250
Email To: lhinrichs@bcaconsultants.
Phone: 317-576-4294 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CIP
Project Number: 14-127

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina
Pace Profile #:

REGULATORY AGENCY: NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: IN

Section D Required Client Information

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 (A-Z, 0-9, /-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ (Y/N)	PAHs (8270 SIM)	METALS (HF)	PCBs	HCBPs	Silica (PAHs 8270 Modified)						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-27 (0-2)	SL	G			5/24/14	0830		2	2									X	X										013
2	SB-14 (4-6)					5/20/14	0925		3	3										X		X	X							014
3	SB-14 (4-6) DUP					5/20/14	0925		1	1												X								015
4	SB-17 (0-2)					5/20/14	1000		2	2									X	X										016
5	SB-12 (0-2)					5/20/14	1155		2	2									X	X										017
6	SB-12 (0-2) DUP					5/20/14	1155		1	1										X										018
7	SB-12 (6-7)					5/20/14	1200		2	2									X	X										019
8	SB-18 (4-6)					5/20/14	1350		4	4									X	X										MS-MSD on METALS 020
9	SB-10 (0-2)					5/20/14	1435		1	1											X									021
10	SB-15 (7-8)					5/20/14	1505		2	2									X	X										022
11	SB-20 (0-2)					5/20/14	1545		2	2									X	X										023
12	SB-10 (1-3)					5/21/14	0815		2	2									X	X										024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John Kline	5/23/14	3:48	James Jones	5/23/14	3:48	
Cole Peacock 5-23-14 3:40 ORIGINAL 5.4°C							

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie Dugan
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
Company: BCA
Address: 11330 E. 75th St. Suite 150
Indianapolis IN 46250
Email To: lhinrichs@bcaconsultants.com
Phone: 317-578-4233 Fax:
Requested Due Date/TAT: STND

Section B Required Project Information:
Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom. CIP
Project Number: 14-127

Section C Invoice Information:
Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Regina
Pace Profile #:

Page: 3 of 4
1764673

REGULATORY AGENCY: NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER
Site Location: STATE: IN

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): PAHs (8270 SIM); METALS (CHYSTAL); PCBs; HERBS; SVOCs (8270 SIM); VOCs

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes above)	SAMPLE TYPE (G=GRAB, C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END DATE	COMPOSITE END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	PAHs (8270 SIM)	METALS (CHYSTAL)	PCBs	HERBS	SVOCs (8270 SIM)	VOCs	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	SB-24 (0-2)	SL	G	5/21/14	0845						5	5										X		X	X		025	5798316 MS-MSD on SVOCs/PAHs
2	SB-5 (0-2)			5/21/14	0910						2	2									X	X						026
3	SB-5 (0-2) DUP			5/21/14	0910						1	1										X						027
4	SB-21 (2-4)			5/21/14	0930						2	2									X	X						028
5	SB-7 (0-2)			5/21/14	1020						2	2									X	X				X		
6	SB-7 (4-6)			5/21/14	1025						4	4									X	X					029	MS-MSD on ~~SVOCs~~ PAHs
7	SB-23 (1-4)			5/21/14	1125						3	3										X		X	X			030
8	SB-23 (1-4) DUP			5/21/14	1125						1	1													X			031
9	SB-4 (0-2)			5/21/14	1325						2	2									X	X						032
10	SB-3 ( )			5/21/14							2	2									X	X					033	X Check Depth & Time
11	SB-11 (0-2)			5/21/14	1435						2	2									X	X					034	MS-MSD on METALS
12																												

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
John Kilner	5/21/14	3:48	James Jones	5/21/14	3:48	

Carla Peacock 5-23-14
16:30 5. ORIGINALS 40C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie Dugan
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Seals Intact (Y/N) | Samples Intact (Y/N)

By signing, 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

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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.

1687207

Section A Required Client Information:

Company: BCA
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Len Hinrichs
Copy To:
Purchase Order No.: 14-127
Project Name: Bloom CTP
Project Number: 14-127

Section C Invoice Information:

Attention:
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

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Metals 14	PCBs	Hold 5.27.14 MLB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-8 (1-3') DUP	SL	G	5/19/14	1345	5/19/14	1345	☒	1	1										X			5098314 035
2	SB-14 (0-2') DUP					5/19/14	1065	☒	1	1									X				036
3																							
4	SB-16 (0-2)					5/20/14	0936														X		037
5	SB-10 (0-2) Dup 5.27.14 MLB					5/20/14	1435														X		038
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John Kilmer	5/23/14	348	James Jones	5/23/14	348	

Carlie Peacock 5-23-14 16:30 ORIGINAL 5.4°C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie Dugan
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: BCA Project # 5098316

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used 1 2 3 4 6 A B C D (E) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.3 °C **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CAP 5-23-14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☑No ☐N/A	8. Sample counts wrong. Rec samples not on COC.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☐Yes ☑No ☐N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: John K / Len H / Chelsie D. Date/Time: 5/23/14 1830

Comments/ Resolution: SB3 (1-3) 5/21/14 1405 on jar'
Put samples NB on COC on hold
No dup on SVOCs/PAHs for SB-14 (0-2) 5-27-14 KMB

Project Manager Review: Regina M Bell **Date:** 5/27/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

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COC PAGE 1 of 4

COC ID#

Project # 5098314

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST		pH <2	pH>12	Comments
1			1																		
2			1																		
3			2																		
4			3																		Rec. 3 not 5
5			2																		
6			3																		
7			1																		
8			2																		
9			4																		Rec. 4 not 5
10			5																		
11			3																		
12			3																		

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

Sample Container Count

CLIENT: BCA

COC PAGE 2 of 4

COC ID# _____

Project # 5198314

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	_____	pH <2	pH>12	Comments
1			2																		
2			3																		
3			1																		
4			2																		
5			2																		
6			1																		
7			2																		
8			4																		
9			1																		
10			2																		
11			2																		
12			2																		

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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Sample Container Count

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COC PAGE 3 of 4

COC ID#

Project # 5098314

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST		pH <2	pH>12	Comments
1			5																		
2			2																		
3			1																		
4			2																		
5			4																		
6			3																		
7			1																		
8			2																		
9			2																		
10			4																		
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber (	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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Sample Container Count

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COC PAGE 4 of 4

COC ID#

Project # 5098316

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST		pH <2	pH>12	Comments
1			1																		
2			1																		
3			4																		not on coc SB-16 0-2 9:26 5-20
4			1																		not on coc SB-10 0-2 Dup 5-20 1435
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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June 18, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Bloomington CTP 14-127
Pace Project No.:	5099209

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5099209001	**SB-9 (4-6)**	Solid	05/19/14 14:30	06/12/14 13:47
5099209002	**SB-22 (0-1)**	Solid	05/19/14 14:10	06/12/14 13:47
5099209003	**SB-22 (3-4)**	Solid	05/19/14 14:10	06/12/14 13:47
5099209004	**SB-22 (4-6)**	Solid	05/19/14 14:15	06/12/14 13:47
5099209005	**SB-16 (0-2)**	Solid	05/20/14 09:20	06/12/14 13:47
5099209006	**SB-16 (2-4)**	Solid	05/20/14 09:20	06/12/14 13:47
5099209007	**SB-16 (6-8)**	Solid	05/20/14 09:25	06/12/14 13:47

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5099209001	**SB-9 (4-6)**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5099209002	**SB-22 (0-1)**	EPA 6010	FRW	1
		ASTM D2974-87	MLS	1
5099209003	**SB-22 (3-4)**	EPA 6010	FRW	1
		ASTM D2974-87	MLS	1
5099209004	**SB-22 (4-6)**	EPA 6010	FRW	1
		ASTM D2974-87	MLS	1
5099209005	**SB-16 (0-2)**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5099209006	**SB-16 (2-4)**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5099209007	**SB-16 (6-8)**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-9 (4-6) **Lab ID: 5099209001** Collected: 05/19/14 14:30 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.73**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	83-32-9	
Acenaphthylene	**0.32**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	208-96-8	
Anthracene	**1.7**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	120-12-7	
Benzo(a)anthracene	**5.1**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	56-55-3	
Benzo(a)pyrene	**4.4**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	50-32-8	
Benzo(b)fluoranthene	**4.4**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	205-99-2	
Benzo(g,h,i)perylene	**3.5**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	191-24-2	
Benzo(k)fluoranthene	**5.2**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	207-08-9	
Chrysene	**6.2**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	218-01-9	
Dibenz(a,h)anthracene	**1.6**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	53-70-3	
Fluoranthene	**10.5**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	206-44-0	
Fluorene	**0.30**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**3.1**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	193-39-5	
1-Methylnaphthalene	**0.54**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	90-12-0	N2
2-Methylnaphthalene	**0.43**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	91-57-6	
Naphthalene	**0.74**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	91-20-3	1d,2d
Phenanthrene	**9.1**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	85-01-8	
Pyrene	**8.7**	mg/kg	0.084	10	06/13/14 11:52	06/13/14 16:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	29	%.	38-110	10	06/13/14 11:52	06/13/14 16:13	321-60-8	S4
p-Terphenyl-d14 (S)	28	%.	32-111	10	06/13/14 11:52	06/13/14 16:13	1718-51-0	S4
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**40.4**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-22 (0-1) **Lab ID: 5099209002** Collected: 05/19/14 14:10 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**15.8**	mg/kg	1.0	1	06/14/14 07:15	06/16/14 12:21	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.8**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-22 (3-4) **Lab ID: 5099209003** Collected: 05/19/14 14:10 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**27.9**	mg/kg	1.1	1	06/14/14 07:15	06/16/14 12:23	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.5**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-22 (4-6) **Lab ID: 5099209004** Collected: 05/19/14 14:15 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**6.7**	mg/kg	1.2	1	06/14/14 07:15	06/16/14 12:25	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.9**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-16 (0-2) **Lab ID: 5099209005** Collected: 05/20/14 09:20 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	83-32-9	
Acenaphthylene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	208-96-8	
Anthracene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	120-12-7	
Benzo(a)anthracene	**0.073**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	56-55-3	
Benzo(a)pyrene	**0.086**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	205-99-2	
Benzo(g,h,i)perylene	**0.060**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	191-24-2	
Benzo(k)fluoranthene	**0.12**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	207-08-9	
Chrysene	**0.13**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	53-70-3	
Fluoranthene	**0.17**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	206-44-0	
Fluorene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.053**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	91-57-6	
Naphthalene	ND	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	91-20-3	1d,2d
Phenanthrene	**0.048**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	85-01-8	
Pyrene	**0.14**	mg/kg	0.026	5	06/13/14 11:52	06/13/14 16:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61	%.	38-110	5	06/13/14 11:52	06/13/14 16:31	321-60-8	
p-Terphenyl-d14 (S)	58	%.	32-111	5	06/13/14 11:52	06/13/14 16:31	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.4**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-16 (2-4) **Lab ID: 5099209006** Collected: 05/20/14 09:20 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	83-32-9	
Acenaphthylene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	208-96-8	
Anthracene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	207-08-9	
Chrysene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	53-70-3	
Fluoranthene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	206-44-0	
Fluorene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	91-57-6	
Naphthalene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	91-20-3	2d
Phenanthrene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	85-01-8	
Pyrene	ND	mg/kg	0.0060	1	06/13/14 11:52	06/13/14 16:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%.	38-110	1	06/13/14 11:52	06/13/14 16:49	321-60-8	
p-Terphenyl-d14 (S)	73	%.	32-111	1	06/13/14 11:52	06/13/14 16:49	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.4**	%	0.10	1		06/17/14 10:36		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Sample: SB-16 (6-8) **Lab ID: 5099209007** Collected: 05/20/14 09:25 Received: 06/12/14 13:47 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	**0.0094**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	83-32-9	
Acenaphthylene	**0.017**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	208-96-8	
Anthracene	**0.0090**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	120-12-7	
Benzo(a)anthracene	**0.013**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	56-55-3	
Benzo(a)pyrene	**0.013**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	50-32-8	
Benzo(b)fluoranthene	**0.012**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	205-99-2	
Benzo(g,h,i)perylene	**0.013**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	191-24-2	
Benzo(k)fluoranthene	**0.015**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	207-08-9	
Chrysene	**0.018**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	53-70-3	
Fluoranthene	**0.049**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	206-44-0	
Fluorene	ND	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0094**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	193-39-5	
1-Methylnaphthalene	**0.015**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	90-12-0	N2
2-Methylnaphthalene	**0.016**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	91-57-6	
Naphthalene	**0.10**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	91-20-3	2d
Phenanthrene	**0.056**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	85-01-8	
Pyrene	**0.038**	mg/kg	0.0066	1	06/13/14 11:52	06/13/14 17:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%.	38-110	1	06/13/14 11:52	06/13/14 17:07	321-60-8	
p-Terphenyl-d14 (S)	61	%.	32-111	1	06/13/14 11:52	06/13/14 17:07	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.7**	%	0.10	1		06/17/14 10:36		

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

QC Batch: MPRP/13561 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5099209002, 5099209003, 5099209004

METHOD BLANK: 1110645 Matrix: Solid
Associated Lab Samples: 5099209002, 5099209003, 5099209004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	06/16/14 12:17	

LABORATORY CONTROL SAMPLE: 1110646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.2	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1110647 1110648

Parameter	Units	5099262016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.3	48.4	47.1	60.9	59.9	101	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

QC Batch: OEXT/36116 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5099209001, 5099209005, 5099209006, 5099209007

METHOD BLANK: 1110289 — Matrix: Solid
Associated Lab Samples: 5099209001, 5099209005, 5099209006, 5099209007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	06/13/14 15:37	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	06/13/14 15:37	
Acenaphthene	mg/kg	ND	0.0050	06/13/14 15:37	
Acenaphthylene	mg/kg	ND	0.0050	06/13/14 15:37	
Anthracene	mg/kg	ND	0.0050	06/13/14 15:37	
Benzo(a)anthracene	mg/kg	ND	0.0050	06/13/14 15:37	
Benzo(a)pyrene	mg/kg	ND	0.0050	06/13/14 15:37	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	06/13/14 15:37	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	06/13/14 15:37	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	06/13/14 15:37	
Chrysene	mg/kg	ND	0.0050	06/13/14 15:37	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	06/13/14 15:37	
Fluoranthene	mg/kg	ND	0.0050	06/13/14 15:37	
Fluorene	mg/kg	ND	0.0050	06/13/14 15:37	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	06/13/14 15:37	
Naphthalene	mg/kg	ND	0.0050	06/13/14 15:37	
Phenanthrene	mg/kg	ND	0.0050	06/13/14 15:37	
Pyrene	mg/kg	ND	0.0050	06/13/14 15:37	
2-Fluorobiphenyl (S)	%.	77	38-110	06/13/14 15:37	
p-Terphenyl-d14 (S)	%.	75	32-111	06/13/14 15:37	

LABORATORY CONTROL SAMPLE: 1110290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.19	56	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.16	49	39-104	
Acenaphthene	mg/kg	.33	0.17	52	43-108	
Acenaphthylene	mg/kg	.33	0.17	52	44-110	
Anthracene	mg/kg	.33	0.18	55	44-112	
Benzo(a)anthracene	mg/kg	.33	0.17	51	43-124	
Benzo(a)pyrene	mg/kg	.33	0.17	51	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.15	45	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.15	45	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.17	51	42-122	
Chrysene	mg/kg	.33	0.19	56	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.15	45	44-119	
Fluoranthene	mg/kg	.33	0.20	59	45-119	
Fluorene	mg/kg	.33	0.18	54	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.15	44	44-119	
Naphthalene	mg/kg	.33	0.17	50	42-103	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

LABORATORY CONTROL SAMPLE: 1110290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.16	49	44-113	
Pyrene	mg/kg	.33	0.19	58	45-123	
2-Fluorobiphenyl (S)	%.			52	38-110	
p-Terphenyl-d14 (S)	%.			59	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1110291 1110292

Parameter	Units	5099189003 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	0.017	.39	.39	0.29	0.29	69	69	20-116	1	20	N2
2-Methylnaphthalene	mg/kg	0.017	.39	.39	0.26	0.26	64	62	10-131	0	20	
Acenaphthene	mg/kg	0.0065	.39	.39	0.30	0.27	74	66	25-117	11	20	
Acenaphthylene	mg/kg	0.015	.39	.39	0.31	0.29	75	71	27-123	4	20	
Anthracene	mg/kg	0.030	.39	.39	0.30	0.44	68	104	20-123	39	20	R1
Benzo(a)anthracene	mg/kg	0.13	.39	.39	0.34	0.78	55	165	23-124	78	20	M0,R1
Benzo(a)pyrene	mg/kg	0.12	.39	.39	0.31	0.62	47	125	23-120	68	20	M0,R1
Benzo(b)fluoranthene	mg/kg	0.11	.39	.39	0.30	0.57	50	116	24-117	60	20	R1
Benzo(g,h,i)perylene	mg/kg	0.087	.39	.39	0.26	0.44	45	88	12-122	50	20	R1
Benzo(k)fluoranthene	mg/kg	0.13	.39	.39	0.32	0.62	48	123	14-123	64	20	R1
Chrysene	mg/kg	0.17	.39	.39	0.38	0.83	54	167	22-124	75	20	M0,R1
Dibenz(a,h)anthracene	mg/kg	0.039	.39	.39	0.25	0.32	53	71	26-113	25	20	R1
Fluoranthene	mg/kg	0.32	.39	.39	0.49	1.3	45	245	21-125	90	20	M0,R1
Fluorene	mg/kg	0.0089	.39	.39	0.31	0.29	76	71	19-127	6	20	
Indeno(1,2,3-cd)pyrene	mg/kg	0.077	.39	.39	0.26	0.43	46	90	15-121	51	20	R1
Naphthalene	mg/kg	0.022	.39	.39	0.30	0.25	71	59	15-125	16	20	
Phenanthrene	mg/kg	0.18	.39	.39	0.38	1.0	51	212	10-139	91	20	M0,R1
Pyrene	mg/kg	0.30	.39	.39	0.46	1.2	41	239	17-132	92	20	M0,R1
2-Fluorobiphenyl (S)	%.						77	67	38-110			
p-Terphenyl-d14 (S)	%.						69	66	32-111			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

QC Batch: PMST/9579 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5099209001, 5099209002, 5099209003, 5099209004, 5099209005, 5099209006, 5099209007

SAMPLE DUPLICATE: 1111859

Parameter	Units	5099209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	40.4	46.4	14	5	R1

SAMPLE DUPLICATE: 1111860

Parameter	Units	5099344008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.2	13.8	3	5	

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/16/14
2d	Sample extraction conducted outside of EPA recommended hold-time per client request. CEM 06/16/14
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 5099209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5099209002	**SB-22 (0-1)**	EPA 3050	MPRP/13561	EPA 6010	ICP/15795
5099209003	**SB-22 (3-4)**	EPA 3050	MPRP/13561	EPA 6010	ICP/15795
5099209004	**SB-22 (4-6)**	EPA 3050	MPRP/13561	EPA 6010	ICP/15795
5099209001	**SB-9 (4-6)**	EPA 3546	OEXT/36116	EPA 8270 by SIM	MSSV/15498
5099209005	**SB-16 (0-2)**	EPA 3546	OEXT/36116	EPA 8270 by SIM	MSSV/15498
5099209006	**SB-16 (2-4)**	EPA 3546	OEXT/36116	EPA 8270 by SIM	MSSV/15498
5099209007	**SB-16 (6-8)**	EPA 3546	OEXT/36116	EPA 8270 by SIM	MSSV/15498
5099209001	**SB-9 (4-6)**	ASTM D2974-87	PMST/9579		
5099209002	**SB-22 (0-1)**	ASTM D2974-87	PMST/9579		
5099209003	**SB-22 (3-4)**	ASTM D2974-87	PMST/9579		
5099209004	**SB-22 (4-6)**	ASTM D2974-87	PMST/9579		
5099209005	**SB-16 (0-2)**	ASTM D2974-87	PMST/9579		
5099209006	**SB-16 (2-4)**	ASTM D2974-87	PMST/9579		
5099209007	**SB-16 (6-8)**	ASTM D2974-87	PMST/9579		

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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

1685121

Section A Required Client Information:

Company: BCA
Address: 6330 E. 75th Street, Indy IN 46250
Email To: Len Hinrichs
Phone: 578-4233 Fax: x 4250
Requested Due Date/TAT: Stand.

Section B Required Project Information:

Report To: Len Hinrichs
Copy To: —
Purchase Order No.:
Project Name: Bloomington CTP
Project Number: 14-127

Section C Invoice Information:

Attention:
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: R. Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) PAHs (8270 SIM)	Arsenic	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-9 (4-6)	SL	G			5/19/14	1430		1	1								X			001
2	SB-22 (0-1)					5/19/14	1410		1	1									X		002
3	SB-22 (3-4)					5/19/14	1410		1	1									X		003
4	SB-22 (4-6)					5/19/14	1415		1	1									X		004
5	SB-16 (0-2)					5/20/14	0920		1	1								X			005
6	SB-16 (2-4)					5/20/14	0920		1	1								X			006
7	SB-16 (6-8)					5/20/14	0925		1	1								X			007
8																					
9																					
10																					
11																					
12																					

5099209

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
—	[signature]	6/12/14	1347 ~~0930~~	[signature]	6/12/14	147	

CP 6-12-14
528 Temp: 2.0 C

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Len Hinrichs
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 6/12/14

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: BCA Project # 5099209

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 Used 1 2 3 4 6 A B C D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0°C **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Corrected, if applicable)

Temp should be above freezing to 6°C

Date/Time 5035A kits placed in freezer _____

Date and Initials of person examining contents: CP 6-12-14

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	10.
Trip Blank Present:	☐Yes	☐No	☑N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: John K Date/Time: 6/12/14 1609

Comments/ Resolution: Extracts PAHs out of hold.
Results requested by 6/20/14 per Len. 6/16/14 KMB

Project Manager Review: Regina K Bell **Date:** 6/12/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

CLIENT: BCA

COC PAGE 1 of 1
COC ID# 1685121

Project # 5099209

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	_____	pH <2	pH>12	Comments
1			1																		
2			↓																		
3																					
4																					
5																					
6																					
7			✓																		
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014

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July 16, 2014

Mr. Leonard Hinrichs
Bruce Carter and Associates
6330 E. 75th Street
Suite 150
Indianapolis, IN 46250

RE: Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Dear Mr. Hinrichs:
Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project:	Bloomington CTP 14-127
Pace Project No.:	50100178

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50100178001	**SB-28 (7-8)**	Solid	06/27/14 13:15	07/01/14 14:55
50100178002	**SB-28 (7-8) DUP**	Solid	06/27/14 13:15	07/01/14 14:55
50100178003	**SB-28 (7-8)**	Solid	06/27/14 13:20	07/01/14 14:55
50100178004	**SB-28 (7-8) DUP**	Solid	06/27/14 13:20	07/01/14 14:55
50100178005	**TB-1**	Solid	06/27/14 08:00	07/01/14 14:55
50100178006	**SB-28**	Water	06/30/14 11:00	07/01/14 14:55
50100178007	**SB-28 DUP**	Water	06/30/14 11:00	07/01/14 14:55
50100178008	**SB-28**	Water	06/30/14 11:05	07/01/14 14:55
50100178009	**SB-28 DUP**	Water	06/30/14 11:05	07/01/14 14:55
50100178010	**EB-1**	Water	06/30/14 11:15	07/01/14 14:55

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SAMPLE ANALYTE COUNT

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50100178001	**SB-28 (7-8)**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
50100178002	**SB-28 (7-8) DUP**	EPA 8260	BJG	73
		ASTM D2974-87	ZM	1
50100178003	**SB-28 (7-8)**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
50100178004	**SB-28 (7-8) DUP**	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
50100178005	**TB-1**	EPA 8260	BJG	73
50100178006	**SB-28**	EPA 8260	RSW	73
50100178007	**SB-28 DUP**	EPA 8260	RSW	73
50100178008	**SB-28**	EPA 8270 by SIM LVE	CEM	20
50100178009	**SB-28 DUP**	EPA 8270 by SIM LVE	CEM	20
50100178010	**EB-1**	EPA 8270 by SIM LVE	CEM	20
		EPA 8260	RSW	73

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) **Lab ID: 50100178001** Collected: 06/27/14 13:15 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		07/11/14 07:01	67-64-1	
Acrolein	ND	mg/kg	0.11	1		07/11/14 07:01	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		07/11/14 07:01	107-13-1	
Benzene	ND	mg/kg	0.0055	1		07/11/14 07:01	71-43-2	
Bromobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	108-86-1	
Bromochloromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	75-27-4	
Bromoform	ND	mg/kg	0.0055	1		07/11/14 07:01	75-25-2	
Bromomethane	ND	mg/kg	0.0055	1		07/11/14 07:01	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.028	1		07/11/14 07:01	78-93-3	
n-Butylbenzene	**0.040**	mg/kg	0.0055	1		07/11/14 07:01	104-51-8	
sec-Butylbenzene	**0.057**	mg/kg	0.0055	1		07/11/14 07:01	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		07/11/14 07:01	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0055	1		07/11/14 07:01	56-23-5	
Chlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	108-90-7	
Chloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	75-00-3	
Chloroform	ND	mg/kg	0.0055	1		07/11/14 07:01	67-66-3	
Chloromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0055	1		07/11/14 07:01	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0055	1		07/11/14 07:01	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	124-48-1	
1,2-Dibromoethane (EDB)	**0.014**	mg/kg	0.0055	1		07/11/14 07:01	106-93-4	
Dibromomethane	ND	mg/kg	0.0055	1		07/11/14 07:01	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		07/11/14 07:01	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0055	1		07/11/14 07:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0055	1		07/11/14 07:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0055	1		07/11/14 07:01	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0055	1		07/11/14 07:01	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0055	1		07/11/14 07:01	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0055	1		07/11/14 07:01	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0055	1		07/11/14 07:01	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0055	1		07/11/14 07:01	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0055	1		07/11/14 07:01	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		07/11/14 07:01	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0055	1		07/11/14 07:01	87-68-3	
n-Hexane	**0.033**	mg/kg	0.0055	1		07/11/14 07:01	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		07/11/14 07:01	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		07/11/14 07:01	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) **Lab ID: 50100178001** Collected: 06/27/14 13:15 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**0.044**	mg/kg	0.0055	1		07/11/14 07:01	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0055	1		07/11/14 07:01	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		07/11/14 07:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.028	1		07/11/14 07:01	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0055	1		07/11/14 07:01	1634-04-4	
Naphthalene	ND	mg/kg	0.0055	1		07/11/14 07:01	91-20-3	
n-Propylbenzene	**0.071**	mg/kg	0.0055	1		07/11/14 07:01	103-65-1	
Styrene	ND	mg/kg	0.0055	1		07/11/14 07:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0055	1		07/11/14 07:01	127-18-4	
Toluene	ND	mg/kg	0.0055	1		07/11/14 07:01	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0055	1		07/11/14 07:01	79-00-5	
Trichloroethene	ND	mg/kg	0.0055	1		07/11/14 07:01	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0055	1		07/11/14 07:01	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0055	1		07/11/14 07:01	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0055	1		07/11/14 07:01	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		07/11/14 07:01	108-05-4	
Vinyl chloride	ND	mg/kg	0.0055	1		07/11/14 07:01	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		07/11/14 07:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	73	%.	85-118	1		07/11/14 07:01	1868-53-7	S5
Toluene-d8 (S)	207	%.	71-128	1		07/11/14 07:01	2037-26-5	S5
4-Bromofluorobenzene (S)	632	%.	56-144	1		07/11/14 07:01	460-00-4	S5
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.6**	%	0.10	1		07/08/14 13:26		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) DUP **Lab ID: 50100178002** Collected: 06/27/14 13:15 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.11	1		07/11/14 07:40	67-64-1	
Acrolein	ND	mg/kg	0.11	1		07/11/14 07:40	107-02-8	
Acrylonitrile	ND	mg/kg	0.11	1		07/11/14 07:40	107-13-1	
Benzene	ND	mg/kg	0.0054	1		07/11/14 07:40	71-43-2	
Bromobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	108-86-1	
Bromochloromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	75-27-4	
Bromoform	ND	mg/kg	0.0054	1		07/11/14 07:40	75-25-2	
Bromomethane	ND	mg/kg	0.0054	1		07/11/14 07:40	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.027	1		07/11/14 07:40	78-93-3	
n-Butylbenzene	**0.024**	mg/kg	0.0054	1		07/11/14 07:40	104-51-8	
sec-Butylbenzene	**0.033**	mg/kg	0.0054	1		07/11/14 07:40	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	98-06-6	
Carbon disulfide	ND	mg/kg	0.011	1		07/11/14 07:40	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0054	1		07/11/14 07:40	56-23-5	
Chlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	108-90-7	
Chloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	75-00-3	
Chloroform	ND	mg/kg	0.0054	1		07/11/14 07:40	67-66-3	
Chloromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0054	1		07/11/14 07:40	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0054	1		07/11/14 07:40	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	124-48-1	
1,2-Dibromoethane (EDB)	**0.011**	mg/kg	0.0054	1		07/11/14 07:40	106-93-4	
Dibromomethane	ND	mg/kg	0.0054	1		07/11/14 07:40	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.11	1		07/11/14 07:40	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0054	1		07/11/14 07:40	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0054	1		07/11/14 07:40	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1		07/11/14 07:40	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0054	1		07/11/14 07:40	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0054	1		07/11/14 07:40	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0054	1		07/11/14 07:40	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0054	1		07/11/14 07:40	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0054	1		07/11/14 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0054	1		07/11/14 07:40	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.11	1		07/11/14 07:40	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0054	1		07/11/14 07:40	87-68-3	
n-Hexane	ND	mg/kg	0.0054	1		07/11/14 07:40	110-54-3	N2
2-Hexanone	ND	mg/kg	0.11	1		07/11/14 07:40	591-78-6	
Iodomethane	ND	mg/kg	0.11	1		07/11/14 07:40	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) DUP **Lab ID: 50100178002** Collected: 06/27/14 13:15 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**0.030**	mg/kg	0.0054	1		07/11/14 07:40	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0054	1		07/11/14 07:40	99-87-6	
Methylene Chloride	ND	mg/kg	0.022	1		07/11/14 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.027	1		07/11/14 07:40	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0054	1		07/11/14 07:40	1634-04-4	
Naphthalene	ND	mg/kg	0.0054	1		07/11/14 07:40	91-20-3	
n-Propylbenzene	**0.036**	mg/kg	0.0054	1		07/11/14 07:40	103-65-1	
Styrene	ND	mg/kg	0.0054	1		07/11/14 07:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0054	1		07/11/14 07:40	127-18-4	
Toluene	ND	mg/kg	0.0054	1		07/11/14 07:40	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0054	1		07/11/14 07:40	79-00-5	
Trichloroethene	ND	mg/kg	0.0054	1		07/11/14 07:40	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0054	1		07/11/14 07:40	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0054	1		07/11/14 07:40	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0054	1		07/11/14 07:40	108-67-8	
Vinyl acetate	ND	mg/kg	0.11	1		07/11/14 07:40	108-05-4	
Vinyl chloride	ND	mg/kg	0.0054	1		07/11/14 07:40	75-01-4	
Xylene (Total)	ND	mg/kg	0.011	1		07/11/14 07:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	79	%.	85-118	1		07/11/14 07:40	1868-53-7	S5
Toluene-d8 (S)	144	%.	71-128	1		07/11/14 07:40	2037-26-5	S5
4-Bromofluorobenzene (S)	507	%.	56-144	1		07/11/14 07:40	460-00-4	S5
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**29.1**	%	0.10	1		07/08/14 13:26		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) **Lab ID: 50100178003** Collected: 06/27/14 13:20 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	83-32-9	
Acenaphthylene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	208-96-8	
Anthracene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	207-08-9	
Chrysene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	53-70-3	
Fluoranthene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	206-44-0	
Fluorene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	91-57-6	
Naphthalene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	91-20-3	
Phenanthrene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	85-01-8	
Pyrene	ND	mg/kg	0.0071	1	07/08/14 11:50	07/10/14 07:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	38-110	1	07/08/14 11:50	07/10/14 07:44	321-60-8	
p-Terphenyl-d14 (S)	61	%.	32-111	1	07/08/14 11:50	07/10/14 07:44	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.6**	%	0.10	1		07/08/14 13:26		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 (7-8) DUP **Lab ID: 50100178004** Collected: 06/27/14 13:20 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	83-32-9	
Acenaphthylene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	208-96-8	
Anthracene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	207-08-9	
Chrysene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	53-70-3	
Fluoranthene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	206-44-0	
Fluorene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	91-57-6	
Naphthalene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	91-20-3	
Phenanthrene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	85-01-8	
Pyrene	ND	mg/kg	0.0072	1	07/08/14 11:50	07/10/14 08:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	38-110	1	07/08/14 11:50	07/10/14 08:02	321-60-8	
p-Terphenyl-d14 (S)	64	%.	32-111	1	07/08/14 11:50	07/10/14 08:02	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.1**	%	0.10	1		07/08/14 13:26		

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: TB-1 **Lab ID: 50100178005** Collected: 06/27/14 08:00 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		07/09/14 23:49	67-64-1	
Acrolein	ND	mg/kg	0.10	1		07/09/14 23:49	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		07/09/14 23:49	107-13-1	
Benzene	ND	mg/kg	0.0050	1		07/09/14 23:49	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		07/09/14 23:49	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		07/09/14 23:49	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		07/09/14 23:49	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		07/09/14 23:49	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		07/09/14 23:49	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		07/09/14 23:49	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		07/09/14 23:49	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		07/09/14 23:49	106-43-4	
Dibromochloromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		07/09/14 23:49	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		07/09/14 23:49	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		07/09/14 23:49	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		07/09/14 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		07/09/14 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		07/09/14 23:49	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		07/09/14 23:49	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		07/09/14 23:49	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		07/09/14 23:49	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		07/09/14 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		07/09/14 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		07/09/14 23:49	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		07/09/14 23:49	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		07/09/14 23:49	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		07/09/14 23:49	110-54-3	N2
2-Hexanone	ND	mg/kg	0.10	1		07/09/14 23:49	591-78-6	
Iodomethane	ND	mg/kg	0.10	1		07/09/14 23:49	74-88-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: TB-1 **Lab ID: 50100178005** Collected: 06/27/14 08:00 Received: 07/01/14 14:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		07/09/14 23:49	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		07/09/14 23:49	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		07/09/14 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		07/09/14 23:49	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		07/09/14 23:49	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		07/09/14 23:49	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	103-65-1	
Styrene	ND	mg/kg	0.0050	1		07/09/14 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		07/09/14 23:49	127-18-4	
Toluene	ND	mg/kg	0.0050	1		07/09/14 23:49	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		07/09/14 23:49	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		07/09/14 23:49	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		07/09/14 23:49	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		07/09/14 23:49	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		07/09/14 23:49	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		07/09/14 23:49	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		07/09/14 23:49	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		07/09/14 23:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	85-118	1		07/09/14 23:49	1868-53-7	
Toluene-d8 (S)	89	%.	71-128	1		07/09/14 23:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	56-144	1		07/09/14 23:49	460-00-4	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 **Lab ID: 50100178006** Collected: 06/30/14 11:00 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/13/14 23:56	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/13/14 23:56	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/13/14 23:56	107-13-1	
Benzene	ND	ug/L	5.0	1		07/13/14 23:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/13/14 23:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/13/14 23:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/13/14 23:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/13/14 23:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/13/14 23:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/13/14 23:56	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/13/14 23:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/13/14 23:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/13/14 23:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/13/14 23:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/13/14 23:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/13/14 23:56	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/13/14 23:56	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/13/14 23:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/13/14 23:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/13/14 23:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/13/14 23:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/13/14 23:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/13/14 23:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/13/14 23:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/13/14 23:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/13/14 23:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/13/14 23:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/13/14 23:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/13/14 23:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/13/14 23:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/13/14 23:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/13/14 23:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/13/14 23:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/13/14 23:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/13/14 23:56	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/13/14 23:56	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		07/13/14 23:56	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/13/14 23:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/13/14 23:56	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 **Lab ID: 50100178006** Collected: 06/30/14 11:00 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/13/14 23:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		07/13/14 23:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/13/14 23:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/13/14 23:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/13/14 23:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	103-65-1	
Styrene	ND	ug/L	5.0	1		07/13/14 23:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/13/14 23:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/13/14 23:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/13/14 23:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/13/14 23:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/13/14 23:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/13/14 23:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/13/14 23:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/13/14 23:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/13/14 23:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/13/14 23:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/13/14 23:56	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/13/14 23:56	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/13/14 23:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/13/14 23:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	79-116	1		07/13/14 23:56	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	80-114	1		07/13/14 23:56	460-00-4	
Toluene-d8 (S)	95	%.	81-110	1		07/13/14 23:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 DUP **Lab ID: 50100178007** Collected: 06/30/14 11:00 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/14/14 01:00	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/14/14 01:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/14/14 01:00	107-13-1	
Benzene	ND	ug/L	5.0	1		07/14/14 01:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/14/14 01:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/14/14 01:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/14/14 01:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/14/14 01:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/14/14 01:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/14/14 01:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/14/14 01:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/14/14 01:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/14/14 01:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/14/14 01:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/14/14 01:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/14/14 01:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/14/14 01:00	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/14/14 01:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/14/14 01:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/14/14 01:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/14/14 01:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/14/14 01:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/14/14 01:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/14/14 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/14/14 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/14/14 01:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/14/14 01:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/14/14 01:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/14/14 01:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/14/14 01:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/14/14 01:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/14/14 01:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/14/14 01:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/14/14 01:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/14/14 01:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/14/14 01:00	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		07/14/14 01:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/14/14 01:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/14/14 01:00	98-82-8	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 DUP **Lab ID: 50100178007** Collected: 06/30/14 11:00 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/14/14 01:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		07/14/14 01:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/14/14 01:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/14/14 01:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/14/14 01:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	103-65-1	
Styrene	ND	ug/L	5.0	1		07/14/14 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/14/14 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/14/14 01:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/14/14 01:00	127-18-4	
Toluene	ND	ug/L	5.0	1		07/14/14 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/14/14 01:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/14/14 01:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/14/14 01:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/14/14 01:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/14/14 01:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/14/14 01:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/14/14 01:00	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/14/14 01:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/14/14 01:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/14/14 01:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	79-116	1		07/14/14 01:00	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	80-114	1		07/14/14 01:00	460-00-4	
Toluene-d8 (S)	93	%.	81-110	1		07/14/14 01:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 **Lab ID: 50100178008** Collected: 06/30/14 11:05 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/02/14 12:03	07/03/14 11:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:01	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	42	%.	21-114	1	07/02/14 12:03	07/03/14 11:01	321-60-8	
p-Terphenyl-d14 (S)	50	%.	25-131	1	07/02/14 12:03	07/03/14 11:01	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: SB-28 DUP **Lab ID: 50100178009** Collected: 06/30/14 11:05 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	83-32-9	
Acenaphthylene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	208-96-8	
Anthracene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	207-08-9	
Chrysene	ND	ug/L	0.56	1	07/02/14 12:03	07/03/14 11:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	53-70-3	
Fluoranthene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	206-44-0	
Fluorene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	07/02/14 12:03	07/03/14 11:19	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	91-57-6	
Naphthalene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	91-20-3	
Phenanthrene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	85-01-8	
Pyrene	ND	ug/L	1.1	1	07/02/14 12:03	07/03/14 11:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	45	%.	21-114	1	07/02/14 12:03	07/03/14 11:19	321-60-8	
p-Terphenyl-d14 (S)	53	%.	25-131	1	07/02/14 12:03	07/03/14 11:19	1718-51-0	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: EB-1 **Lab ID: 50100178010** Collected: 06/30/14 11:15 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV	Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/02/14 12:03	07/03/14 11:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/02/14 12:03	07/03/14 11:37	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	91-57-6	
Naphthalene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/02/14 12:03	07/03/14 11:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	21-114	1	07/02/14 12:03	07/03/14 11:37	321-60-8	
p-Terphenyl-d14 (S)	71	%.	25-131	1	07/02/14 12:03	07/03/14 11:37	1718-51-0	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/14/14 02:04	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/14/14 02:04	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/14/14 02:04	107-13-1	
Benzene	ND	ug/L	5.0	1		07/14/14 02:04	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/14/14 02:04	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/14/14 02:04	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/14/14 02:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/14/14 02:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/14/14 02:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/14/14 02:04	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/14/14 02:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/14/14 02:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/14/14 02:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/14/14 02:04	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/14/14 02:04	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/14/14 02:04	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/14/14 02:04	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/14/14 02:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/14/14 02:04	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/14/14 02:04	74-95-3	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: EB-1 **Lab ID: 50100178010** Collected: 06/30/14 11:15 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/14/14 02:04	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/14/14 02:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/14/14 02:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/14/14 02:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/14/14 02:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/14/14 02:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/14/14 02:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/14/14 02:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/14/14 02:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/14/14 02:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/14/14 02:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/14/14 02:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/14/14 02:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/14/14 02:04	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/14/14 02:04	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/14/14 02:04	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		07/14/14 02:04	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/14/14 02:04	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/14/14 02:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/14/14 02:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		07/14/14 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/14/14 02:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/14/14 02:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/14/14 02:04	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	103-65-1	
Styrene	ND	ug/L	5.0	1		07/14/14 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/14/14 02:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/14/14 02:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/14/14 02:04	127-18-4	
Toluene	ND	ug/L	5.0	1		07/14/14 02:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/14/14 02:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/14/14 02:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/14/14 02:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/14/14 02:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/14/14 02:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/14/14 02:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/14/14 02:04	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/14/14 02:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/14/14 02:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/14/14 02:04	1330-20-7	

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ANALYTICAL RESULTS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Sample: EB-1 **Lab ID: 50100178010** Collected: 06/30/14 11:15 Received: 07/01/14 14:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	96	%.	79-116	1		07/14/14 02:04	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	80-114	1		07/14/14 02:04	460-00-4	
Toluene-d8 (S)	92	%.	81-110	1		07/14/14 02:04	2037-26-5	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: MSV/66734 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50100178006, 50100178007, 50100178010

METHOD BLANK: 1126538 Matrix: Water
Associated Lab Samples: 50100178006, 50100178007, 50100178010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,1,1-Trichloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,1-Dichloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,1-Dichloroethene	ug/L	ND	5.0	07/13/14 17:28	
1,1-Dichloropropene	ug/L	ND	5.0	07/13/14 17:28	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
1,2,3-Trichloropropane	ug/L	ND	5.0	07/13/14 17:28	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	07/13/14 17:28	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/13/14 17:28	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
1,2-Dichloroethane	ug/L	ND	5.0	07/13/14 17:28	
1,2-Dichloropropane	ug/L	ND	5.0	07/13/14 17:28	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	07/13/14 17:28	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
1,3-Dichloropropane	ug/L	ND	5.0	07/13/14 17:28	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
2,2-Dichloropropane	ug/L	ND	5.0	07/13/14 17:28	
2-Butanone (MEK)	ug/L	ND	25.0	07/13/14 17:28	
2-Chlorotoluene	ug/L	ND	5.0	07/13/14 17:28	
2-Hexanone	ug/L	ND	25.0	07/13/14 17:28	
4-Chlorotoluene	ug/L	ND	5.0	07/13/14 17:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/13/14 17:28	
Acetone	ug/L	ND	100	07/13/14 17:28	
Acrolein	ug/L	ND	50.0	07/13/14 17:28	
Acrylonitrile	ug/L	ND	100	07/13/14 17:28	
Benzene	ug/L	ND	5.0	07/13/14 17:28	
Bromobenzene	ug/L	ND	5.0	07/13/14 17:28	
Bromochloromethane	ug/L	ND	5.0	07/13/14 17:28	
Bromodichloromethane	ug/L	ND	5.0	07/13/14 17:28	
Bromoform	ug/L	ND	5.0	07/13/14 17:28	
Bromomethane	ug/L	ND	5.0	07/13/14 17:28	
Carbon disulfide	ug/L	ND	10.0	07/13/14 17:28	
Carbon tetrachloride	ug/L	ND	5.0	07/13/14 17:28	
Chlorobenzene	ug/L	ND	5.0	07/13/14 17:28	
Chloroethane	ug/L	ND	5.0	07/13/14 17:28	
Chloroform	ug/L	ND	5.0	07/13/14 17:28	
Chloromethane	ug/L	ND	5.0	07/13/14 17:28	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/13/14 17:28	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

METHOD BLANK: 1126538 Matrix: Water
Associated Lab Samples: 50100178006, 50100178007, 50100178010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/13/14 17:28	
Dibromochloromethane	ug/L	ND	5.0	07/13/14 17:28	
Dibromomethane	ug/L	ND	5.0	07/13/14 17:28	
Dichlorodifluoromethane	ug/L	ND	5.0	07/13/14 17:28	
Ethyl methacrylate	ug/L	ND	100	07/13/14 17:28	
Ethylbenzene	ug/L	ND	5.0	07/13/14 17:28	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/13/14 17:28	
Iodomethane	ug/L	ND	10.0	07/13/14 17:28	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/13/14 17:28	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/13/14 17:28	
Methylene Chloride	ug/L	ND	5.0	07/13/14 17:28	
n-Butylbenzene	ug/L	ND	5.0	07/13/14 17:28	
n-Hexane	ug/L	ND	5.0	07/13/14 17:28	N2
n-Propylbenzene	ug/L	ND	5.0	07/13/14 17:28	
Naphthalene	ug/L	ND	5.0	07/13/14 17:28	
p-Isopropyltoluene	ug/L	ND	5.0	07/13/14 17:28	
sec-Butylbenzene	ug/L	ND	5.0	07/13/14 17:28	
Styrene	ug/L	ND	5.0	07/13/14 17:28	
tert-Butylbenzene	ug/L	ND	5.0	07/13/14 17:28	
Tetrachloroethene	ug/L	ND	5.0	07/13/14 17:28	
Toluene	ug/L	ND	5.0	07/13/14 17:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/13/14 17:28	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/13/14 17:28	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	07/13/14 17:28	
Trichloroethene	ug/L	ND	5.0	07/13/14 17:28	
Trichlorofluoromethane	ug/L	ND	5.0	07/13/14 17:28	
Vinyl acetate	ug/L	ND	50.0	07/13/14 17:28	
Vinyl chloride	ug/L	ND	2.0	07/13/14 17:28	
Xylene (Total)	ug/L	ND	10.0	07/13/14 17:28	
4-Bromofluorobenzene (S)	%.	91	80-114	07/13/14 17:28	
Dibromofluoromethane (S)	%.	94	79-116	07/13/14 17:28	
Toluene-d8 (S)	%.	95	81-110	07/13/14 17:28	

LABORATORY CONTROL SAMPLE: 1126539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.8	94	61-135	
1,1,1-Trichloroethane	ug/L	50	43.1	86	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	66-126	
1,1,2-Trichloroethane	ug/L	50	44.5	89	77-130	
1,1-Dichloroethane	ug/L	50	46.7	93	75-130	
1,1-Dichloroethene	ug/L	50	53.9	108	68-127	
1,1-Dichloropropene	ug/L	50	50.5	101	78-130	
1,2,3-Trichlorobenzene	ug/L	50	52.9	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1126539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	47.0	94	58-142	
1,2,4-Trichlorobenzene	ug/L	50	50.9	102	68-131	
1,2,4-Trimethylbenzene	ug/L	50	47.5	95	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	76-125	
1,2-Dichlorobenzene	ug/L	50	53.0	106	75-123	
1,2-Dichloroethane	ug/L	50	45.5	91	75-128	
1,2-Dichloropropane	ug/L	50	48.7	97	74-121	
1,3,5-Trimethylbenzene	ug/L	50	48.1	96	70-126	
1,3-Dichlorobenzene	ug/L	50	53.5	107	74-122	
1,3-Dichloropropane	ug/L	50	46.5	93	74-123	
1,4-Dichlorobenzene	ug/L	50	52.8	106	76-120	
2,2-Dichloropropane	ug/L	50	49.1	98	50-137	
2-Butanone (MEK)	ug/L	250	234	94	58-139	
2-Chlorotoluene	ug/L	50	49.5	99	74-122	
2-Hexanone	ug/L	250	214	86	54-140	
4-Chlorotoluene	ug/L	50	52.2	104	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	212	85	58-138	
Acetone	ug/L	250	248	99	49-150	
Acrolein	ug/L	1000	1400	140	41-200	
Acrylonitrile	ug/L	1000	929	93	63-137	
Benzene	ug/L	50	53.7	107	74-122	
Bromobenzene	ug/L	50	47.1	94	72-127	
Bromochloromethane	ug/L	50	49.2	98	63-132	
Bromodichloromethane	ug/L	50	45.1	90	62-136	
Bromoform	ug/L	50	40.3	81	44-134	
Bromomethane	ug/L	50	54.2	108	22-181	
Carbon disulfide	ug/L	100	120	120	59-132	
Carbon tetrachloride	ug/L	50	42.4	85	56-137	
Chlorobenzene	ug/L	50	52.0	104	78-123	
Chloroethane	ug/L	50	46.6	93	60-144	
Chloroform	ug/L	50	49.9	100	78-126	
Chloromethane	ug/L	50	36.2	72	42-134	
cis-1,2-Dichloroethene	ug/L	50	54.5	109	75-122	
cis-1,3-Dichloropropene	ug/L	50	43.7	87	64-126	
Dibromochloromethane	ug/L	50	45.7	91	58-128	
Dibromomethane	ug/L	50	47.9	96	73-125	
Dichlorodifluoromethane	ug/L	50	54.3	109	35-181	
Ethyl methacrylate	ug/L	200	176	88	69-133	
Ethylbenzene	ug/L	50	49.8	100	66-133	
Hexachloro-1,3-butadiene	ug/L	50	49.9	100	59-145	
Iodomethane	ug/L	100	92.4	92	21-170	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	69-124	
Methyl-tert-butyl ether	ug/L	100	91.0	91	69-122	
Methylene Chloride	ug/L	50	52.7	105	68-132	
n-Butylbenzene	ug/L	50	47.5	95	70-126	
n-Hexane	ug/L	50	51.5	103	51-125	N2
n-Propylbenzene	ug/L	50	49.2	98	71-122	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1126539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	42.1	84	68-127	
p-Isopropyltoluene	ug/L	50	47.7	95	72-132	
sec-Butylbenzene	ug/L	50	48.7	97	70-128	
Styrene	ug/L	50	53.9	108	74-126	
tert-Butylbenzene	ug/L	50	38.7	77	51-118	
Tetrachloroethene	ug/L	50	50.5	101	69-130	
Toluene	ug/L	50	49.2	98	72-122	
trans-1,2-Dichloroethene	ug/L	50	58.6	117	72-124	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	185	93	56-133	
Trichloroethene	ug/L	50	49.9	100	76-126	
Trichlorofluoromethane	ug/L	50	54.5	109	76-149	
Vinyl acetate	ug/L	200	168	84	45-151	
Vinyl chloride	ug/L	50	47.6	95	59-126	
Xylene (Total)	ug/L	150	150	100	70-124	
4-Bromofluorobenzene (S)	%.			97	80-114	
Dibromofluoromethane (S)	%.			103	79-116	
Toluene-d8 (S)	%.			93	81-110	

MATRIX SPIKE SAMPLE: 1127284

Parameter	Units	50100178006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	41.0	82	50-132	
1,1,1-Trichloroethane	ug/L	ND	50	41.0	82	60-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	43.9	88	55-128	
1,1,2-Trichloroethane	ug/L	ND	50	42.8	86	61-139	
1,1-Dichloroethane	ug/L	ND	50	45.1	90	57-147	
1,1-Dichloroethene	ug/L	ND	50	54.5	109	55-145	
1,1-Dichloropropene	ug/L	ND	50	49.8	100	55-147	
1,2,3-Trichlorobenzene	ug/L	ND	50	47.3	94	31-141	
1,2,3-Trichloropropane	ug/L	ND	50	46.9	94	58-133	
1,2,4-Trichlorobenzene	ug/L	ND	50	45.1	90	25-143	
1,2,4-Trimethylbenzene	ug/L	ND	50	44.2	88	18-149	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.2	94	63-129	
1,2-Dichlorobenzene	ug/L	ND	50	48.9	98	38-136	
1,2-Dichloroethane	ug/L	ND	50	43.7	87	62-138	
1,2-Dichloropropane	ug/L	ND	50	46.2	92	59-130	
1,3,5-Trimethylbenzene	ug/L	ND	50	45.3	91	20-147	
1,3-Dichlorobenzene	ug/L	ND	50	49.5	99	28-141	
1,3-Dichloropropane	ug/L	ND	50	44.2	88	62-127	
1,4-Dichlorobenzene	ug/L	ND	50	48.4	97	30-139	
2,2-Dichloropropane	ug/L	ND	50	40.3	81	37-139	
2-Butanone (MEK)	ug/L	ND	250	215	86	37-156	
2-Chlorotoluene	ug/L	ND	50	46.1	92	27-142	
2-Hexanone	ug/L	ND	250	205	82	44-143	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

MATRIX SPIKE SAMPLE: 1127284

Parameter	Units	50100178006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Chlorotoluene	ug/L	ND	50	49.5	99	27-144	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	207	83	46-144	
Acetone	ug/L	ND	250	233	90	39-156	
Acrolein	ug/L	ND	1000	1220	122	33-200	
Acrylonitrile	ug/L	ND	1000	879	88	48-149	
Benzene	ug/L	ND	50	52.7	105	62-129	
Bromobenzene	ug/L	ND	50	42.0	84	39-140	
Bromochloromethane	ug/L	ND	50	47.3	95	49-142	
Bromodichloromethane	ug/L	ND	50	41.3	83	50-142	
Bromoform	ug/L	ND	50	35.8	72	36-125	
Bromomethane	ug/L	ND	50	39.3	79	13-179	
Carbon disulfide	ug/L	ND	100	121	120	45-142	
Carbon tetrachloride	ug/L	ND	50	39.4	79	46-142	
Chlorobenzene	ug/L	ND	50	49.3	99	49-136	
Chloroethane	ug/L	ND	50	45.5	91	47-160	
Chloroform	ug/L	ND	50	48.6	97	54-150	
Chloromethane	ug/L	ND	50	34.5	69	30-148	
cis-1,2-Dichloroethene	ug/L	ND	50	52.9	106	60-135	
cis-1,3-Dichloropropene	ug/L	ND	50	38.7	77	52-123	
Dibromochloromethane	ug/L	ND	50	40.9	82	48-125	
Dibromomethane	ug/L	ND	50	45.2	90	59-134	
Dichlorodifluoromethane	ug/L	ND	50	54.0	108	24-197	
Ethyl methacrylate	ug/L	ND	200	168	84	55-139	
Ethylbenzene	ug/L	ND	50	47.0	94	28-153	
Hexachloro-1,3-butadiene	ug/L	ND	50	42.2	84	10-176	
Iodomethane	ug/L	ND	100	74.4	74	17-157	
Isopropylbenzene (Cumene)	ug/L	ND	50	47.0	94	18-152	
Methyl-tert-butyl ether	ug/L	ND	100	82.4	82	63-130	
Methylene Chloride	ug/L	ND	50	50.5	101	45-156	
n-Butylbenzene	ug/L	ND	50	42.3	85	10-161	
n-Hexane	ug/L	ND	50	49.1	98	33-144	N2
n-Propylbenzene	ug/L	ND	50	47.2	94	16-150	
Naphthalene	ug/L	ND	50	38.4	77	39-140	
p-Isopropyltoluene	ug/L	ND	50	44.5	89	10-163	
sec-Butylbenzene	ug/L	ND	50	45.6	91	10-160	
Styrene	ug/L	ND	50	47.9	96	36-139	
tert-Butylbenzene	ug/L	ND	50	37.6	75	12-134	
Tetrachloroethene	ug/L	ND	50	48.6	97	33-151	
Toluene	ug/L	ND	50	47.3	94	50-132	
trans-1,2-Dichloroethene	ug/L	ND	50	60.0	120	40-153	
trans-1,3-Dichloropropene	ug/L	ND	50	36.8	74	48-122	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	160	80	32-139	
Trichloroethene	ug/L	ND	50	48.5	97	50-143	
Trichlorofluoromethane	ug/L	ND	50	56.6	113	60-175	
Vinyl acetate	ug/L	ND	200	130	65	17-142	
Vinyl chloride	ug/L	ND	50	49.2	98	44-145	
Xylene (Total)	ug/L	ND	150	141	94	29-145	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

MATRIX SPIKE SAMPLE: 1127284

Parameter	Units	50100178006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.				91	80-114	
Dibromofluoromethane (S)	%.				101	79-116	
Toluene-d8 (S)	%.				94	81-110	

SAMPLE DUPLICATE: 1127285

Parameter	Units	50100178007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichlorobenzene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trichlorobenzene	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Chlorotoluene	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Chlorotoluene	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromobenzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

SAMPLE DUPLICATE: 1127285

Parameter	Units	50100178007 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethyl methacrylate	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Hexachloro-1,3-butadiene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
n-Butylbenzene	ug/L	ND	ND		20	
n-Hexane	ug/L	ND	ND		20	N2
n-Propylbenzene	ug/L	ND	ND		20	
Naphthalene	ug/L	ND	ND		20	
p-Isopropyltoluene	ug/L	ND	ND		20	
sec-Butylbenzene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
tert-Butylbenzene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	89	91	3		
Dibromofluoromethane (S)	%.	96	96	0		
Toluene-d8 (S)	%.	93	94	1		

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: MSV/66621 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50100178005

METHOD BLANK: 1125045 | Matrix: Solid
Associated Lab Samples: 50100178005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,1-Dichloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,1-Dichloroethene	mg/kg	ND	0.0050	07/09/14 13:55	
1,1-Dichloropropene	mg/kg	ND	0.0050	07/09/14 13:55	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	07/09/14 13:55	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	07/09/14 13:55	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,2-Dichloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
1,2-Dichloropropane	mg/kg	ND	0.0050	07/09/14 13:55	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
1,3-Dichloropropane	mg/kg	ND	0.0050	07/09/14 13:55	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
2,2-Dichloropropane	mg/kg	ND	0.0050	07/09/14 13:55	
2-Butanone (MEK)	mg/kg	ND	0.025	07/09/14 13:55	
2-Chlorotoluene	mg/kg	ND	0.0050	07/09/14 13:55	
2-Hexanone	mg/kg	ND	0.10	07/09/14 13:55	
4-Chlorotoluene	mg/kg	ND	0.0050	07/09/14 13:55	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	07/09/14 13:55	
Acetone	mg/kg	ND	0.10	07/09/14 13:55	
Acrolein	mg/kg	ND	0.10	07/09/14 13:55	
Acrylonitrile	mg/kg	ND	0.10	07/09/14 13:55	
Benzene	mg/kg	ND	0.0050	07/09/14 13:55	
Bromobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Bromochloromethane	mg/kg	ND	0.0050	07/09/14 13:55	
Bromodichloromethane	mg/kg	ND	0.0050	07/09/14 13:55	
Bromoform	mg/kg	ND	0.0050	07/09/14 13:55	
Bromomethane	mg/kg	ND	0.0050	07/09/14 13:55	
Carbon disulfide	mg/kg	ND	0.010	07/09/14 13:55	
Carbon tetrachloride	mg/kg	ND	0.0050	07/09/14 13:55	
Chlorobenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Chloroethane	mg/kg	ND	0.0050	07/09/14 13:55	
Chloroform	mg/kg	ND	0.0050	07/09/14 13:55	
Chloromethane	mg/kg	ND	0.0050	07/09/14 13:55	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/09/14 13:55	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

METHOD BLANK: 1125045 Matrix: Solid
Associated Lab Samples: 50100178005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	07/09/14 13:55	
Dibromochloromethane	mg/kg	ND	0.0050	07/09/14 13:55	
Dibromomethane	mg/kg	ND	0.0050	07/09/14 13:55	
Dichlorodifluoromethane	mg/kg	ND	0.0050	07/09/14 13:55	
Ethyl methacrylate	mg/kg	ND	0.10	07/09/14 13:55	
Ethylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	07/09/14 13:55	
Iodomethane	mg/kg	ND	0.10	07/09/14 13:55	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	07/09/14 13:55	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	07/09/14 13:55	
Methylene Chloride	mg/kg	ND	0.020	07/09/14 13:55	
n-Butylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
n-Hexane	mg/kg	ND	0.0050	07/09/14 13:55	N2
n-Propylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Naphthalene	mg/kg	ND	0.0050	07/09/14 13:55	
p-Isopropyltoluene	mg/kg	ND	0.0050	07/09/14 13:55	
sec-Butylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Styrene	mg/kg	ND	0.0050	07/09/14 13:55	
tert-Butylbenzene	mg/kg	ND	0.0050	07/09/14 13:55	
Tetrachloroethene	mg/kg	ND	0.0050	07/09/14 13:55	
Toluene	mg/kg	ND	0.0050	07/09/14 13:55	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/09/14 13:55	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	07/09/14 13:55	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	07/09/14 13:55	
Trichloroethene	mg/kg	ND	0.0050	07/09/14 13:55	
Trichlorofluoromethane	mg/kg	ND	0.0050	07/09/14 13:55	
Vinyl acetate	mg/kg	ND	0.10	07/09/14 13:55	
Vinyl chloride	mg/kg	ND	0.0050	07/09/14 13:55	
Xylene (Total)	mg/kg	ND	0.010	07/09/14 13:55	
4-Bromofluorobenzene (S)	%.	102	56-144	07/09/14 13:55	
Dibromofluoromethane (S)	%.	97	85-118	07/09/14 13:55	
Toluene-d8 (S)	%.	91	71-128	07/09/14 13:55	

LABORATORY CONTROL SAMPLE: 1125046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.044	88	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	97	65-124	
1,1-Dichloroethene	mg/kg	.05	0.038	76	66-126	
1,2,4-Trimethylbenzene	mg/kg	.05	0.047	95	67-126	
1,2-Dichloropropane	mg/kg	.05	0.047	94	75-118	
Benzene	mg/kg	.05	0.052	105	74-119	
Chlorobenzene	mg/kg	.05	0.047	95	77-122	
Chloroform	mg/kg	.05	0.042	84	75-124	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1125046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	mg/kg	.05	0.049	99	72-123	
Isopropylbenzene (Cumene)	mg/kg	.05	0.049	98	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.083	83	68-120	
Naphthalene	mg/kg	.05	0.046	93	67-131	
Tetrachloroethene	mg/kg	.05	0.044	89	72-126	
Toluene	mg/kg	.05	0.047	94	71-121	
Trichloroethene	mg/kg	.05	0.047	94	74-123	
Vinyl chloride	mg/kg	.05	0.065	131	55-128	L3
Xylene (Total)	mg/kg	.15	0.16	105	66-124	
4-Bromofluorobenzene (S)	%.			106	56-144	
Dibromofluoromethane (S)	%.			85	85-118	
Toluene-d8 (S)	%.			96	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: MSV/66649
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50100178001, 50100178002

METHOD BLANK: 1125213
Matrix: Solid
Associated Lab Samples: 50100178001, 50100178002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,1-Dichloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,1-Dichloroethene	mg/kg	ND	0.0050	07/11/14 03:04	
1,1-Dichloropropene	mg/kg	ND	0.0050	07/11/14 03:04	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	07/11/14 03:04	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	07/11/14 03:04	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,2-Dichloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
1,2-Dichloropropane	mg/kg	ND	0.0050	07/11/14 03:04	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
1,3-Dichloropropane	mg/kg	ND	0.0050	07/11/14 03:04	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
2,2-Dichloropropane	mg/kg	ND	0.0050	07/11/14 03:04	
2-Butanone (MEK)	mg/kg	ND	0.025	07/11/14 03:04	
2-Chlorotoluene	mg/kg	ND	0.0050	07/11/14 03:04	
2-Hexanone	mg/kg	ND	0.10	07/11/14 03:04	
4-Chlorotoluene	mg/kg	ND	0.0050	07/11/14 03:04	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	07/11/14 03:04	
Acetone	mg/kg	ND	0.10	07/11/14 03:04	
Acrolein	mg/kg	ND	0.10	07/11/14 03:04	
Acrylonitrile	mg/kg	ND	0.10	07/11/14 03:04	
Benzene	mg/kg	ND	0.0050	07/11/14 03:04	
Bromobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Bromochloromethane	mg/kg	ND	0.0050	07/11/14 03:04	
Bromodichloromethane	mg/kg	ND	0.0050	07/11/14 03:04	
Bromoform	mg/kg	ND	0.0050	07/11/14 03:04	
Bromomethane	mg/kg	ND	0.0050	07/11/14 03:04	
Carbon disulfide	mg/kg	ND	0.010	07/11/14 03:04	
Carbon tetrachloride	mg/kg	ND	0.0050	07/11/14 03:04	
Chlorobenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Chloroethane	mg/kg	ND	0.0050	07/11/14 03:04	
Chloroform	mg/kg	ND	0.0050	07/11/14 03:04	
Chloromethane	mg/kg	ND	0.0050	07/11/14 03:04	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/11/14 03:04	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

METHOD BLANK: 1125213 Matrix: Solid
Associated Lab Samples: 50100178001, 50100178002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	07/11/14 03:04	
Dibromochloromethane	mg/kg	ND	0.0050	07/11/14 03:04	
Dibromomethane	mg/kg	ND	0.0050	07/11/14 03:04	
Dichlorodifluoromethane	mg/kg	ND	0.0050	07/11/14 03:04	
Ethyl methacrylate	mg/kg	ND	0.10	07/11/14 03:04	
Ethylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	07/11/14 03:04	
Iodomethane	mg/kg	ND	0.10	07/11/14 03:04	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	07/11/14 03:04	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	07/11/14 03:04	
Methylene Chloride	mg/kg	ND	0.020	07/11/14 03:04	
n-Butylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
n-Hexane	mg/kg	ND	0.0050	07/11/14 03:04	N2
n-Propylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Naphthalene	mg/kg	ND	0.0050	07/11/14 03:04	
p-Isopropyltoluene	mg/kg	ND	0.0050	07/11/14 03:04	
sec-Butylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Styrene	mg/kg	ND	0.0050	07/11/14 03:04	
tert-Butylbenzene	mg/kg	ND	0.0050	07/11/14 03:04	
Tetrachloroethene	mg/kg	ND	0.0050	07/11/14 03:04	
Toluene	mg/kg	ND	0.0050	07/11/14 03:04	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/11/14 03:04	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	07/11/14 03:04	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	07/11/14 03:04	
Trichloroethene	mg/kg	ND	0.0050	07/11/14 03:04	
Trichlorofluoromethane	mg/kg	ND	0.0050	07/11/14 03:04	
Vinyl acetate	mg/kg	ND	0.10	07/11/14 03:04	
Vinyl chloride	mg/kg	ND	0.0050	07/11/14 03:04	
Xylene (Total)	mg/kg	ND	0.010	07/11/14 03:04	
4-Bromofluorobenzene (S)	%.	95	56-144	07/11/14 03:04	
Dibromofluoromethane (S)	%.	101	85-118	07/11/14 03:04	
Toluene-d8 (S)	%.	90	71-128	07/11/14 03:04	

LABORATORY CONTROL SAMPLE: 1125214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.044	88	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.043	87	65-124	
1,1-Dichloroethene	mg/kg	.05	0.038	75	66-126	
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	87	67-126	
1,2-Dichloropropane	mg/kg	.05	0.044	88	75-118	
Benzene	mg/kg	.05	0.049	97	74-119	
Chlorobenzene	mg/kg	.05	0.044	88	77-122	
Chloroform	mg/kg	.05	0.043	87	75-124	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1125214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	mg/kg	.05	0.046	92	72-123	
Isopropylbenzene (Cumene)	mg/kg	.05	0.051	101	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.079	79	68-120	
Naphthalene	mg/kg	.05	0.039	79	67-131	
Tetrachloroethene	mg/kg	.05	0.039	79	72-126	
Toluene	mg/kg	.05	0.044	87	71-121	
Trichloroethene	mg/kg	.05	0.042	85	74-123	
Vinyl chloride	mg/kg	.05	0.058	116	55-128	
Xylene (Total)	mg/kg	.15	0.14	95	66-124	
4-Bromofluorobenzene (S)	%.			108	56-144	
Dibromofluoromethane (S)	%.			93	85-118	
Toluene-d8 (S)	%.			96	71-128	

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: OEXT/36299 — Analysis Method: EPA 8270 by SIM LVE
QC Batch Method: EPA 3510 — Analysis Description: 8270 Water PAH LV by SIM MSSV
Associated Lab Samples: 50100178008, 50100178009, 50100178010

METHOD BLANK: 1121608 — Matrix: Water
Associated Lab Samples: 50100178008, 50100178009, 50100178010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	07/03/14 06:48	N2
2-Methylnaphthalene	ug/L	ND	1.0	07/03/14 06:48	
Acenaphthene	ug/L	ND	1.0	07/03/14 06:48	
Acenaphthylene	ug/L	ND	1.0	07/03/14 06:48	
Anthracene	ug/L	ND	0.10	07/03/14 06:48	
Benzo(a)anthracene	ug/L	ND	0.10	07/03/14 06:48	
Benzo(a)pyrene	ug/L	ND	0.10	07/03/14 06:48	
Benzo(b)fluoranthene	ug/L	ND	0.10	07/03/14 06:48	
Benzo(g,h,i)perylene	ug/L	ND	0.10	07/03/14 06:48	
Benzo(k)fluoranthene	ug/L	ND	0.10	07/03/14 06:48	
Chrysene	ug/L	ND	0.50	07/03/14 06:48	
Dibenz(a,h)anthracene	ug/L	ND	0.10	07/03/14 06:48	
Fluoranthene	ug/L	ND	1.0	07/03/14 06:48	
Fluorene	ug/L	ND	1.0	07/03/14 06:48	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	07/03/14 06:48	
Naphthalene	ug/L	ND	1.0	07/03/14 06:48	
Phenanthrene	ug/L	ND	1.0	07/03/14 06:48	
Pyrene	ug/L	ND	1.0	07/03/14 06:48	
2-Fluorobiphenyl (S)	%.	55	21-114	07/03/14 06:48	
p-Terphenyl-d14 (S)	%.	68	25-131	07/03/14 06:48	

LABORATORY CONTROL SAMPLE: 1121609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.5	65	29-112	N2
2-Methylnaphthalene	ug/L	10	5.6	56	29-110	
Acenaphthene	ug/L	10	6.5	65	39-117	
Acenaphthylene	ug/L	10	6.7	67	40-120	
Anthracene	ug/L	10	7.5	75	48-126	
Benzo(a)anthracene	ug/L	10	7.3	73	51-134	
Benzo(a)pyrene	ug/L	10	7.4	74	48-141	
Benzo(b)fluoranthene	ug/L	10	7.8	78	49-139	
Benzo(g,h,i)perylene	ug/L	10	6.9	69	44-134	
Benzo(k)fluoranthene	ug/L	10	7.0	70	48-140	
Chrysene	ug/L	10	7.3	73	53-136	
Dibenz(a,h)anthracene	ug/L	10	6.7	67	44-132	
Fluoranthene	ug/L	10	7.8	78	50-135	
Fluorene	ug/L	10	7.0	70	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.8	68	45-132	
Naphthalene	ug/L	10	5.9	59	30-112	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1121609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	7.1	71	47-128	
Pyrene	ug/L	10	7.4	74	50-134	
2-Fluorobiphenyl (S)	%.			53	21-114	
p-Terphenyl-d14 (S)	%.			56	25-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1121610 1121611

Parameter	Units	50100132002 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	ND	10	10	5.9	5.6	59	56	10-135	5	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	5.2	4.9	52	49	16-116	5	20	
Acenaphthene	ug/L	ND	10	10	5.8	5.7	58	57	28-116	3	20	
Acenaphthylene	ug/L	ND	10	10	5.9	5.8	59	58	34-115	3	20	
Anthracene	ug/L	ND	10	10	6.0	5.6	60	56	39-121	7	20	
Benzo(a)anthracene	ug/L	ND	10	10	3.8	3.4	38	34	31-127	11	20	
Benzo(a)pyrene	ug/L	ND	10	10	2.7	2.6	27	26	10-121	3	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	2.7	2.6	27	26	10-119	2	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	2.6	2.6	26	26	10-108	2	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	3.0	2.8	30	28	10-118	5	20	
Chrysene	ug/L	ND	10	10	3.9	3.6	39	36	32-127	10	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	2.6	2.6	26	26	10-104	0	20	
Fluoranthene	ug/L	ND	10	10	5.8	5.3	58	53	38-131	9	20	
Fluorene	ug/L	ND	10	10	6.1	5.9	61	59	33-121	3	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	2.5	2.5	25	25	10-108	1	20	
Naphthalene	ug/L	ND	10	10	5.4	5.2	54	52	16-119	5	20	
Phenanthrene	ug/L	ND	10	10	6.2	5.8	62	58	32-130	6	20	
Pyrene	ug/L	ND	10	10	5.7	5.2	57	52	39-131	9	20	
2-Fluorobiphenyl (S)	%.						51	49	21-114			
p-Terphenyl-d14 (S)	%.						35	31	25-131			

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: OEXT/36346 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 | Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 50100178003, 50100178004

METHOD BLANK: 1123926 | Matrix: Solid
Associated Lab Samples: 50100178003, 50100178004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0050	07/10/14 05:19	N2
2-Methylnaphthalene	mg/kg	ND	0.0050	07/10/14 05:19	
Acenaphthene	mg/kg	ND	0.0050	07/10/14 05:19	
Acenaphthylene	mg/kg	ND	0.0050	07/10/14 05:19	
Anthracene	mg/kg	ND	0.0050	07/10/14 05:19	
Benzo(a)anthracene	mg/kg	ND	0.0050	07/10/14 05:19	
Benzo(a)pyrene	mg/kg	ND	0.0050	07/10/14 05:19	
Benzo(b)fluoranthene	mg/kg	ND	0.0050	07/10/14 05:19	
Benzo(g,h,i)perylene	mg/kg	ND	0.0050	07/10/14 05:19	
Benzo(k)fluoranthene	mg/kg	ND	0.0050	07/10/14 05:19	
Chrysene	mg/kg	ND	0.0050	07/10/14 05:19	
Dibenz(a,h)anthracene	mg/kg	ND	0.0050	07/10/14 05:19	
Fluoranthene	mg/kg	ND	0.0050	07/10/14 05:19	
Fluorene	mg/kg	ND	0.0050	07/10/14 05:19	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0050	07/10/14 05:19	
Naphthalene	mg/kg	ND	0.0050	07/10/14 05:19	
Phenanthrene	mg/kg	ND	0.0050	07/10/14 05:19	
Pyrene	mg/kg	ND	0.0050	07/10/14 05:19	
2-Fluorobiphenyl (S)	%.	66	38-110	07/10/14 05:19	
p-Terphenyl-d14 (S)	%.	72	32-111	07/10/14 05:19	

LABORATORY CONTROL SAMPLE: 1123927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.18	55	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.17	51	39-104	
Acenaphthene	mg/kg	.33	0.20	59	43-108	
Acenaphthylene	mg/kg	.33	0.20	60	44-110	
Anthracene	mg/kg	.33	0.22	65	44-112	
Benzo(a)anthracene	mg/kg	.33	0.23	68	43-124	
Benzo(a)pyrene	mg/kg	.33	0.28	85	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.29	87	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.28	83	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.27	80	42-122	
Chrysene	mg/kg	.33	0.23	69	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.27	82	44-119	
Fluoranthene	mg/kg	.33	0.22	67	45-119	
Fluorene	mg/kg	.33	0.21	63	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.28	83	44-119	
Naphthalene	mg/kg	.33	0.17	50	42-103	

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, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

LABORATORY CONTROL SAMPLE: 1123927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.21	64	44-113	
Pyrene	mg/kg	.33	0.23	68	45-123	
2-Fluorobiphenyl (S)	%.			59	38-110	
p-Terphenyl-d14 (S)	%.			69	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123928 1123929

Parameter	Units	50100202009 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	ND	.44	.44	0.22	0.20	50	45	20-116	12	20	N2
2-Methylnaphthalene	mg/kg	ND	.44	.44	0.21	0.18	47	42	10-131	12	20	
Acenaphthene	mg/kg	ND	.44	.44	0.22	0.21	51	48	25-117	7	20	
Acenaphthylene	mg/kg	ND	.44	.44	0.23	0.21	52	48	27-123	8	20	
Anthracene	mg/kg	ND	.44	.44	0.22	0.22	50	50	20-123	0	20	
Benzo(a)anthracene	mg/kg	7.1 ug/kg	.44	.44	0.22	0.22	49	49	23-124	1	20	
Benzo(a)pyrene	mg/kg	13.9 ug/kg	.44	.44	0.28	0.28	62	61	23-120	1	20	
Benzo(b)fluoranthene	mg/kg	7.7 ug/kg	.44	.44	0.26	0.27	57	60	24-117	4	20	
Benzo(g,h,i)perylene	mg/kg	10.1 ug/kg	.44	.44	0.26	0.26	56	57	12-122	2	20	
Benzo(k)fluoranthene	mg/kg	9.7 ug/kg	.44	.44	0.29	0.28	64	62	14-123	4	20	
Chrysene	mg/kg	9.3 ug/kg	.44	.44	0.25	0.24	56	53	22-124	5	20	
Dibenz(a,h)anthracene	mg/kg	ND	.44	.44	0.28	0.28	64	62	26-113	3	20	
Fluoranthene	mg/kg	ND	.44	.44	0.21	0.22	47	48	21-125	0	20	
Fluorene	mg/kg	ND	.44	.44	0.23	0.22	53	51	19-127	4	20	
Indeno(1,2,3-cd)pyrene	mg/kg	7.1 ug/kg	.44	.44	0.26	0.27	58	59	15-121	2	20	
Naphthalene	mg/kg	ND	.44	.44	0.23	0.20	52	45	15-125	16	20	
Phenanthrene	mg/kg	ND	.44	.44	0.22	0.22	49	49	10-139	2	20	
Pyrene	mg/kg	10.6 ug/kg	.44	.44	0.22	0.22	48	47	17-132	1	20	
2-Fluorobiphenyl (S)	%.						50	41	38-110			
p-Terphenyl-d14 (S)	%.						49	42	32-111			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

QC Batch: PMST/9652 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50100178001, 50100178002, 50100178003, 50100178004

SAMPLE DUPLICATE: 1124228

Parameter	Units	50100172001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.4	3.8	44	5	R1

SAMPLE DUPLICATE: 1124229

Parameter	Units	50100178003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.6	28.9	6	5	R1

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QUALIFIERS

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bloomington CTP 14-127
Pace Project No.: 50100178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50100178008	**SB-28**	EPA 3510	OEXT/36299	EPA 8270 by SIM LVE	MSSV/15639
50100178009	**SB-28 DUP**	EPA 3510	OEXT/36299	EPA 8270 by SIM LVE	MSSV/15639
50100178010	**EB-1**	EPA 3510	OEXT/36299	EPA 8270 by SIM LVE	MSSV/15639
50100178003	**SB-28 (7-8)**	EPA 3546	OEXT/36346	EPA 8270 by SIM	MSSV/15689
50100178004	**SB-28 (7-8) DUP**	EPA 3546	OEXT/36346	EPA 8270 by SIM	MSSV/15689
50100178006	**SB-28**	EPA 8260	MSV/66734		
50100178007	**SB-28 DUP**	EPA 8260	MSV/66734		
50100178010	**EB-1**	EPA 8260	MSV/66734		
50100178001	**SB-28 (7-8)**	EPA 8260	MSV/66649		
50100178002	**SB-28 (7-8) DUP**	EPA 8260	MSV/66649		
50100178005	**TB-1**	EPA 8260	MSV/66621		
50100178001	**SB-28 (7-8)**	ASTM D2974-87	PMST/9652		
50100178002	**SB-28 (7-8) DUP**	ASTM D2974-87	PMST/9652		
50100178003	**SB-28 (7-8)**	ASTM D2974-87	PMST/9652		
50100178004	**SB-28 (7-8) DUP**	ASTM D2974-87	PMST/9652		

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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.

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Page: 1 of 1

1764677

Section A Required Client Information:

Company: Bruce Carter Associates
Address: 6330 E. 75th, Suite 150
Indianapolis, IN. 46250
Email To: lninrichs@bcaconsultants.com
Phone: 317-578-4233 Fax: —
Requested Due Date/TAT: STND

Section B Required Project Information:

Report To: Len Hinrichs
Copy To:
Purchase Order No.:
Project Name: Bloom. CTP
Project Number:

Section C Invoice Information:

Attention: —
Company Name: —
Address: —
Pace Quote Reference:
Pace Project Manager: Regina Bedel
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN.

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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): VOCs	PAHs (8270 SIM)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-28 (7-8')	SL	G			6/27/14	1315		4	X						X	X	X			001
2	SB-28 (7-8') DUP	SL	G			6/27/14	1315		4	X						X	X	X			002
3	SB-28 (7-8')	SL	G			6/27/14	1320		1	X									X		003
4	SB-28 (7-8') DUP	SL	G			6/27/14	1320		1	X									X		004
5	TB-1								3							X	X	X			005
6	SB-28	W	G			6/30/14	1100		3				X					X			006
7	SB-28 (DUP)	W	G			6/30/14	1100		3				X					X			007
8	SB-28	W	G			6/30/14	1105		1	X									X		008
9	SB-28 (DUP)	W	G			6/30/14	1105		1	X									X		009
10	EB-1	W	G			6/30/14	1115		4	X			X					X	X		010
11																					
12																					

50100178

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Soil VOC: Frozen w/in 24 hrs	Chelsie R. Dugan	7/1/2014	0845	[signature]	7-1-14	0845	
	[signature]	7-1-14	1455	James Jones	7-1-14	1455	

Carlie Peacock 15:33 ORIGINAL 7-1-14 4.7°C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chelsie R. Dugan
SIGNATURE of SAMPLER: Chelsie R Dugan
DATE Signed (MM/DD/YY): 7/1/2014

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Bruce Carter Project # 50100178

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer 7-1-14 15:40

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 1 2 3 4 5 A B C D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.7°C **Ice Visible in Sample Containers:** ☐ yes ☑ no
(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and initials of person examining contents: CAP 7-1-14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	5. Tema cores
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Regina H Bell **Date:** 7/1/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

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CLIENT: Bruce Carter Assoc.

COC PAGE 1 of 1
COC ID# 1764677

Project # 50100178

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	____	pH <2	pH>12	Comments
1					4															
2					4															
3			1																	
4			1																	
5					3															
6	3																			
7	3																			
8				1																
9				1																
10	3			1																
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.04,13Mar2014