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PHASE II ENVIRONMENTAL SITE ASSESSMENT
203 NORTH WATER STREET
BAY CITY, MICHIGAN

for

CITY OF BAY CITY
301 WASHINGTON AVENUE
BAY CITY, MICHIGAN

AKT PEERLESS PROJECT NO. 7059S-2-20
JULY 18, 2011

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

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AKT PEERLESS PROJECT NO. 7059S-2-20

1.0 INTRODUCTION

The City of Bay City, LLC retained AKT Peerless Environmental & Energy Services (AKT Peerless) to conduct a Phase II Environmental Site Assessment (Phase II ESA). The Phase II ESA was conducted on a property located at 203 North Water Street, Bay City, Michigan (subject property). This Phase II ESA was conducted in accordance with AKT Peerless" Proposal for a Phase II ESA (Proposal Number PS-12262 dated May 13, 2011, and is based on American Society for Testing and Materials (ASTM) Designation E 1903-97 *"Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."*

This Phase II ESA scope of work is intended to evaluate the recognized environmental conditions (RECs) presented in Section 2.2.1. AKT Peerless" Phase II ESA report documents the field activities, sampling protocols, and laboratory results. AKT Peerless" Phase II ESA was performed for the benefit of the City of Bay City, who may rely on the contents and conclusions of this report.

2.0 BACKGROUND

2.1 SITE DESCRIPTION AND PHYSICAL SETTING

The subject property is located in the southeast ¼ of Section 28, Township 14 North, Range 5 East, Bay City, Bay County, Michigan. The subject property consists of one parcel located between the Saginaw River and North Water Street. The subject property is developed with a Consumers Energy Substation on the eastern portion of the property. The substation consists of distribution transformers, regulators, breakers, and other electrical equipment. The property also contains high tension electrical power lines traversing along the entire length of the subject property

Refer to Figure 1 for a subject property location map. See Figure 2 for a sample location map.

2.2 SUBJECT PROPERTY HISTORY AND LAND USE

A detailed history of the subject property was identified during the completion of the Phase I ESA. See the following table:

Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1895	Vacant	Rail spurs Boat slips	Unknown	Fire Insurance Maps
1912	Boat houses/ shanties	Rail spurs Boat slips	Unknown	Fire Insurance Maps
1938-present	Electrical substation	Substation	Consumers Energy	Fire Insurance Maps Aerial Photographs Municipal Records

2.2.1 AKT Peerless' July 2011 Phase I ESA

AKT Peerless performed a Phase I ESA of the subject property in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 and AAI 40 CFR Part 312 on July 08, 2011. This Phase I ESA revealed the following RECs in connection with the subject property:

1. The site was developed with an electric power substation from at least 1938 to the present. The substation includes electrical equipment that may contain polychlorinated biphenyls (PCBs), or may have contained PCBs in the past. There is a potential for release of PCBs to have occurred over time.

2. The subject property contained rail spurs from the 1890s to at least 1950. Potential concerns typically associated with railroad spurs includes the use of fill materials as ballast to support the ties and rails of the railroad spurs, and leaks or spills of hazardous materials or petroleum products.

3. The central and western portion of the property was filled to its existing surface grade over time. The origin of the fill material is not known. The adjoining sites to the north and south of the subject property were filled to surface grade over time similar to that of the subject property. Each of the sites is known to contain contaminants above "facility" levels of similar contaminants. It is likely that the fill material from the adjoining sites originated from the same place at the material on the subject property.

4. 200 North Water Street, Consumers Energy, adjoining to the east was listed as a SHWS within the EDR report. According to MDEQ records it was determined that PCBs were located within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-10' below ground surface (bgs). The investigation that identified the "facility" compounds was conducted in 2001. No investigations have been conducted since that time. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

5. 242 Water Street, Saginaw Bay Industries, adjoining to the east was listed as a SHWS

within the EDR report. According to MDEQ records, it was determined that elevated levels of cadmium, copper, lead, zinc, and PCBs within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-10" bgs. The investigations that identified the "facility" compounds were conducted in 2001. Elevated levels of PCBs were identified within groundwater at multiple locations above the drinking water criteria. Groundwater was identified as 5-10" bgs. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

6. 112 North Water Street, Bay City Industrial Complex, adjacent to the south. The site was listed on the UST, RCRA, SHWS, LUST, and BEA databases according to the EDR report. The site was historically operated for industrial purposes from the mid-1800s to the 1990s. During that time the site was used by various foundries, manufacturing shops, machine shops, machine repair, and fuel storage, including: gasoline, fuel oil, and coal. Multiple subsurface investigations with the collection of soil and groundwater samples, have occurred on-site over time to assess potential impact from former site use. Laboratory data shows the presence of arsenic, barium, benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, cadmium, chromium, copper, cyanide, ethylbenzene, dibenzo(a,h)anthracene, 1,2 dichloroethane, fluoranthene, lead, mercury, methylene chloride, mineral spirits, mineral oil, naphthalene, nickel, phenanthrene, PCBs, selenium, silver, xylene, and zinc above applicable MDEQ cleanup criteria at locations throughout the subject property. Due to proximity to the subject property and lack of contaminant delineation, this site is considered a REC to the subject property.

7. 301 North Water Street, Bay Aggregates, adjoining to the north. The site was listed on the UST and BEA databases according to the EDR report. The site was historically operated for industrial purposes from the mid-1800s to the 1990s. Multiple subsurface investigations with the collection of soil and groundwater samples have occurred on-site over time to assess potential impact from former site use. Laboratory data shows the presence of acenaphthene, anthracene, barium, benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, selenium, silver, trichloroethylene, xylenes, 1,2 dichloroethane, and 1,2,4-trimethylbenzene above applicable MDEQ cleanup criteria at locations throughout the subject property.

8. 102 10th Street, adjoining to the east was listed as a BEA site within the EDR Report. According to MDEQ records it was determined that magnesium, mercury, and PCBs within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-10" bgs. The investigation that identified the "facility" compounds was conducted in 2001. No investigations have been conducted since that time. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

3.1 SCOPE OF ASSESSMENT

The purpose of the investigation was to evaluate for the presence of contamination attributable to the aforementioned RECs. AKT Peerless subsurface investigation of the subject property included: (1) the completion of a geophysical survey to evaluate for the presence of abandoned underground storage tanks (USTs), (2) the advancement of seven soil borings (B-1 through B-7) to a maximum depth of 24 feet below ground surface (bgs), (3) the installation of four temporary groundwater monitoring wells (B-2, B-3, B-4, B-7), (4) collected 8 soil samples (one from each boring, except B-1 from which two soil samples were collected, 4 groundwater samples and 6 Quality Assurance/Quality Control (QA/QC) samples for laboratory analysis.

The following samples were submitted for laboratory analyses:

- Eight soil samples were submitted for laboratory analyses of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), PCBs, and 10 Michigan Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, sliver, zinc)
- Four groundwater samples were submitted for laboratory analyses of VOCs, PNAs, PCBs, and 10 Michigan Metals.

3.1.1 Soil Evaluation

On July 11 and 12, 2011, AKT Peerless advanced seven soil borings at the subject property (B-1 through B-7) to a maximum depth of 8 feet bgs. Soil borings were conducted using hydraulic drive/direct-push (Geoprobe®) sampling techniques, which followed the drilling procedures outlined in ASTM publication D 6282-98 "*Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations.*" AKT Peerless personnel inspected, field-screened and logged the samples collected at each soil boring location. Refer to Figure 2 for soil boring locations. Refer to Appendix A for Soil Boring Logs.

3.1.2 Groundwater Evaluation

AKT Peerless encountered groundwater at approximately 6-7 feet bgs in each of the soil borings advanced at the subject property. AKT Peerless installed a temporary groundwater monitor well at the boring location B-2, B-3, B-4, and B-7. A one-inch PVC riser with a five-foot screen was utilized for each temporary groundwater monitor well. Groundwater sampling was conducted using low-flow sampling methodologies described in the April 1996 United States Environmental Protection Agency (USEPA) document Groundwater Issue titled "*Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures*." Groundwater stabilization data recorded for each well were documented to ensure the variance in water quality indicator parameters, including pH, temperature, turbidity, oxidation-reduction potential, dissolved oxygen, and conductivity had stabilized within the allowable tolerances.

3.1.3 Geophysical Survey

Geophysical Imaging, Inc. of Maumee, Ohio completed a geophysical survey to evaluate for the potential presence of abandoned buried containers. A combined electromagnetic induction (EM) and ground-penetrating radar (GPR) survey was conducted by GII at the site in the area designated by AKT. The EM survey was performed in "continuous survey" mode along 2.5-foot spaced transects. GII used a GSSI EMP-400 multi-frequency EM profiler with integrated GPS. Two EM exploration frequencies (9,000 Hz and 12,000 Hz) were selected for the site. Prior to the EM survey, field, operator, and zero in-phase calibrations were performed at the site. In "continuous survey" mode, data are acquired at a fixed time interval while the operator walks along a survey line at a steady pace. Both in-phase (metal sensitive) and quadrature (terrain conductivity) measurements were acquired during the EM survey. These measurements were automatically stored in a wireless data logger, and later downloaded to a computer for subsequent processing. Two software packages were utilized to define suspect areas, MagMap (supplied by E.G. & G. Geometrics) and SURFER (developed by Golden Software). The GPR survey was performed along 5-foot spaced profiles. GII used a GSSI SIR-3000 GPR system with a 400-megahertz (MHz) dipole antenna mounted on a wheeled cart to scan the survey area. Several test scans were completed to observe the overall GPR responses to setup survey parameters prior to the GPR survey. A survey wheel was used to acquire distance-based data at the density of 18 scans per foot. Anomalous reflective objects/structures were noted and marked on the ground surface during the data acquisition. Additional linescans were performed to better understand anomalous targets. The GPR data were automatically stored in a data logger, and later downloaded to a computer for subsequent processing. The data processing consisted of Time-Zero Adjustment (time zero of the vertical scale aligned with the surface reflection) and Background Removal (horizontal banding) to the GPR scans.

The EM survey identified a strong EM in-phase („metal") anomaly located at the northern central portion of the survey grid. One targeted GPR linescan (Linescan A) was performed in this anomaly area. Based on the EM and GPR data, this anomaly area was interpreted to represent rebar concrete associated with the former foundation. Other strong EM „metal" anomalies identified during the survey were most likely associated with the known aboveground interference, such as metal siding and building, etc. The GPR survey identified a backfilled excavation located at the northwestern portion of the survey grid. Two targeted GPR linescans (Linescans A and B) were performed in this anomaly area. More chaotic reflection response was identified on GPR scans. Based on the GPR data and site history, this anomaly area was interpreted to represent a possible UST cavity. A geophysical anomaly characterizing a UST was not identified in the area surveyed. A copy of the Geophysical Survey is provided as Appendix D.

3.2 QUALITY ASSURANCE/QUALITY CONTROL

To ensure the accuracy of data collected during on site activities, AKT Peerless implemented proper QA/QC measures. The QA/QC procedures included, but were not limited to: (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, and (4) sample preservation techniques.

3.2.1 Decontamination of Equipment

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

3.2.2 Calibration of Field Equipment

All field instruments were calibrated prior to first use on-site to ensure accuracy. Field instruments utilized during investigation activities at this subject property were a photoionization detector (PID), a water quality indicator meter (the meter measures Ph, temperature, dissolved oxygen, conductivity and oxidation reduction potential), and a turbidity meter.

During AKT Peerless" Phase II ESA, a PID was used to screen all soil samples. The PID was maintained in a calibrated condition using 100 ppm isobutylene span gas prior to subsurface investigations.

The water quality indicator meter was used to measure indicator parameters during low-flow sampling conducted at the subject property. The meter was calibrated using known standards and in accordance with manufacturer specifications prior to first use on the subject property. The meter was designed to measure turbidity, Ph, temperature, dissolved oxygen, conductivity and oxidation reduction potential.

The turbidity meter was used during low-flow sampling conducted at the subject property. The meter was calibrated using known standards and in accordance with manufacturer specifications prior to first use on the subject property.

3.2.3 Documentation of Activities

During AKT Peerless" Phase II ESA activities, subject property conditions (i.e. soil boring locations, weather conditions) were documented. AKT Peerless visually inspected the soil and groundwater samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as: (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and water table depth, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). Soil types were classified in accordance with ASTM publication D-2488 "*Unified Soil Classification System.*" All soil and groundwater samples were delivered to a laboratory under chain-of-custody documentation. See Appendix A for AKT Peerless" soil boring logs. See Figure 2 for a sample location map.

3.2.4 Sample Preservation Techniques

AKT Peerless collected soil samples according to USEPA Publication SW-846, *"Test Methods for Evaluating Solid Waste."* Soil and groundwater samples were collected in laboratory-

supplied containers, stored on ice or at approximately 4 degrees Celsius and submitted under chain-of-custody documentation.

Soil samples collected for volatile analyses were field preserved with methanol in accordance with USEPA Method 5035. Soil samples collected for PNAs, PCBs, and metals analyses were stored in unpreserved, 4-ounce wide-mouth jars.

Groundwater samples collected from temporary wells were collected with a peristaltic pump and dedicated tubing. Groundwater samples for VOC analyses were collected with zero headspace into 40 ml glass vials and preserved with hydrochloric acid. Groundwater samples for PNA and PCB analyses were collected into unpreserved, glass amber jars. Groundwater samples for metals analysis were collected into a 125 ml plastic jars preserved with nitric acid.

3.3 LABORATORY ANALYSES AND METHODS

Summary of Laboratory Analysis

Sample Name/Depth (in feet)	Matrix	VOCs	PNAs	PCBs	Metals
B-1 (0-2")	Soil	☑	☑	☑	☑
B-1 (3-5")	Soil	☑	☑	☑	☑
B-2 (3-5")	Soil	☑	☑	☑	☑
B-3 (3-5")	Soil	☑	☑	☑	☑
B-4 (1-4")	Soil	☑	☑	☑	☑
B-5 (0-2")	Soil	☑	☑	☑	☑
B-6 (4"6")	Soil	☑	☑	☑	☑
B-7 (5-7")	Soil	☑	☑	☑	☑
B-2TMW (3-8")	Water	☑	☑	☑	☑
B-3TMW (3-8")	Water	☑	☑	☑	☑
B-4TMW (3.5-8")	Water	☑	☑	☑	☑
B-7TMW (3-8")	Water	☑	☑	☑	☑

The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Method 5035/8260B; (2) PNAs in accordance with USEPA Method 3550B/8270C; (3) PCBs in accordance with USEPA Method 8082; (4) metals (except mercury) in accordance with USEPA Method 3050B/6020A; and (5) mercury in accordance with USEPA 7470A.

4.0 EVALUATION AND PRESENTATION OF RESULTS

4.1 SUBSURFACE CONDITIONS

4.1.1 Soil and Groundwater Conditions based on Published Material

According to the Michigan Department of Natural Resources (MDNR) Geological Survey Division"s Bedrock Geology of Southern Michigan (1987), bedrock beneath the subject property is included in the Atokan and Morrowan Series within the Pennsylvanian System of the Paleozoic Era. The depth to bedrock beneath the subject property was not readily available prior to the completion of this Phase I ESA.

According to the Michigan Geological Survey Division"s publication, Quaternary Geology of Southern Michigan, soils in the area are lacustrine sand and gravel. These soils are described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel. These soils occur chiefly as former beach and near-offshore littoral deposits of glacial Great Lakes and may include intercalated lacustrine clay. Soil thickness ranges from 3 to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.

According to the USDA"s Soil Survey of Bay County, Michigan (1980), soil at the subject property is classified as belonging to the Tappan association, which is described as "nearly level, poorly drained soils that formed in loamy material; on till plains modified by lake water." As indicated on Photo Sheet #31 of the soil survey, the subject property soils are described as belonging to Urban land. Urban land consists of nearly level and gently sloping areas covered by streets, parking lots, buildings, and other structures.

4.1.2 Soil and Groundwater Conditions based on Field Observations

During drilling activities, AKT Peerless encountered the following soil types:

- **Gravel** was present in the majority of borings from below the ground surface to a maximum depth of 8 feet bgs.
- **Sand** was present in the majority of borings from below the ground surface to a maximum depth of 8-feet bgs.
- **Debris** (i.e. wood, brick, block, concrete, and metal) was encountered in select borings at varying depths from below ground surface to 8-feet bgs. Debris included traces of concrete metal, glass, woods, and slag.
- **Clay** was present in select borings at varying depths from 6-feet bgs to a maximum depth of 8.5-feet bgs.

AKT Peerless encountered groundwater at approximately 6-7" bgs. The groundwater appears to be shallow and continuous across the site. This groundwater is present in a shallow unconfined perched groundwater unit that is likely subject to seasonal fluctuation in elevation based on precipitation volumes. Refer to Appendix A for AKT Peerless" soil boring logs.

4.2 LABORATORY ANALYTICAL RESULTS

AKT Peerless collected soil and groundwater samples for the purpose of determining if the subject property meets the definition of a *facility.* Analytical results were compared with MDEQ GRCC provided in MDEQ Remediation Division‟s (RD‟s) Operational Memorandum No. 1.

4.2.1 Soil Analytical Results

AKT Peerless submitted eight soil samples for laboratory analysis of VOCs, PNAs, PCBS and 10 Michigan metals. The results of the laboratory analyses of the soil samples are summarized in the table below:

SOIL CONTAMINANTS DETECTED EXCEEDING ONE OR MORE PART 201 GENERIC CLEANUP CRITERIA

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification (Sample Depth Interval-feet bgs) with Criteria Exceedance	Part 201 Residential Commercial I Criteria Exceeded/Established Criteria (µg/kg)	Maximum Concentration (µg/kg)/Sample Location
Arsenic	7440382	B-1 (3.0-5.0), B-2 (3.0-5.0), B-3 (3.0-5.0), B-7 (5.0-7.0)	4,600 DWP 7,600 DC	24,000/ B-7 (5.0-7.0)
Benzene	71-43-2	B-6 (4.0-6.0)	100 DWP	130/ B-6 (4.0-6.0)
Benzo(a)pyrene	50-32-8	B-1 (3.0-5.0)), B-3 (3.0-5.0), B-5 (0-2.0)	2,000 DC	18,000/ B-3 (3.0-5.0)
Benzo(b)fluoranthene	205-99-2	B-1 (3.0-5.0), B-3 (3.0-5.0)	20,000 DC	23,000/ B-3 (3.0-5.0)
Dibenzo(a,h)anthracene	53-70-3	B-1 (3.0-5.0), B-3 (3.0-5.0)	2,000 DC	2,300/ B-1 (3.0-5.0)
Fluoranthene	206-44-0	B-3 (3.0-5.0), B-5 (0.0-2.0)	5,500 GSIP	15,000/ B-1 (3.0-5.0)
Mercury	Varies	B-2 (3.0-5.0)	50 GSIP	140/ B-2 (3.0-5.0)
2-Methylnaphthalene	91-57-6	B-7 (5.0-7.0)	4,200 GSIP	5,000/ B-7 (5.0-7.0)
Phenanthrene	85-01-8	B-1 (3.0-5.0), B-3 (3.0-5.0), B-5 (0.0-2.0)	2,100 GSIP	11,000/ B-3 (3.0-5.0)
Selenium	7782492	B-1 (3.0-5.0), B-2 (3.0-5.0), B-3 (3.0-5.0), B-4 (4.0-6.0), B-5 (0-2.0), B-6 (4.0-6.0), B-7 (5.0-7.0)	400 GSIP	940/ B-4 (5”-1’)
Xylenes	1330-20-7	B-6 (4.0-6.0)	820 GSIP	1,100/ B-6 (4.0-6.0)

Table Notes:

DWP – Drinking Water Protection Criteria,

GSIP – Groundwater Surface Water Interface Protection Criteria

DC – Direct Contact Criteria

Select additional VOCs, PNAs, and metals were identified but were detected below the Part 201 Generic Cleanup Criteria. Soil analytical results are summarized on the attached Table 1. Refer to Appendix B for a complete analytical laboratory report. Refer to Figure 3 for the Site Map with Part 201 Criteria Exceedances in Soil Map.

4.2.2 Groundwater Analytical Results

AKT Peerless submitted four groundwater samples for laboratory analysis of VOCs, PNAs, PCBs, and metals. The results of the laboratory analyses of the groundwater samples are summarized in the table below:

GROUNDWATER CONTAMINANT DETECTED EXCEEDING ONE OR MORE PART 201 GENERIC CLEANUP CRITERIA

Parameter	Chemical Abstract Service (CAS) Number	Sample Identification with Criteria Exceedance	Part 201 Residential Commercial I Criteria Exceeded/Established Criteria (µg/L)	Maximum Concentration (µg/kg)/Sample Location
Arsenic	7440382	B-7	10.0 DW 10.0 GSI	10/B-7

Table Notes:
DW – Drinking Water Protection Criteria
GSIP – Groundwater Surface Water Interface Protection Criteria

Additional VOCs, PNAs, PCBs, and metals were identified above the method detection limits but were detected below the applicable cleanup criteria.

Groundwater analytical results are summarized on the attached Table 2. Refer to Appendix B for a complete analytical laboratory report. Refer to Figure 4 for the Site Map with Part 201 Criteria Exceedances in Groundwater Map.

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

5.1 SUMMARY OF ENVIRONMENTAL CONCERNS

The Phase I ESA revealed the following RECs in connection with the subject property:

1. The site was developed with an electric power substation from at least 1938 to the present. The substation includes electrical equipment that may contain PCBs, or may have contained PCBs in the past. There is a potential for release of PCBs to have occurred over time.

2. The subject property contained rail spurs from the 1890s to at least 1950. Potential concerns typically associated with railroad spurs includes the use of fill materials as ballast to support the ties and rails of the railroad spurs, and leaks or spills of hazardous materials or petroleum products.

3. The central and western portion of the property was filled to its existing surface grade over time. The origin of the fill material is not known. The adjoining sites to the north and south of the subject property were filled to surface grade over time similar to that of the subject property. Each of the sites is known to contain contaminants above "facility" levels of similar contaminants. It is likely that the fill material from the adjoining sites originated from the same place at the material on the subject property.

4. 200 North Water Street, Consumers Energy, adjoining to the east was listed as a SHWS within the EDR report. According to MDEQ records it was determined that PCBs were located within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-bgs. The investigation that identified the "facility" compounds was conducted in 2001. No investigations have been conducted since that time. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

5. 242 Water Street, Saginaw Bay Industries, adjoining to the east was listed as a SHWS within the EDR report. According to MDEQ records, it was determined that elevated levels of cadmium, copper, lead, zinc, and PCBs within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-10" bgs. The investigations that identified the "facility" compounds were conducted in 2001. Elevated levels of PCBs were identified within groundwater at multiple locations above the drinking water criteria. Groundwater was identified as 5-10" bgs. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

6. 112 North Water Street, Bay City Industrial Complex, adjacent to the south. The site was listed on the UST, RCRA, SHWS, LUST, and BEA databases according to the EDR report. The site was historically operated for industrial purposes from the mid-1800s to the 1990s. During that time the site was used by various foundries, manufacturing shops, machine shops, machine repair, and fuel storage, including: gasoline, fuel oil, and coal. Multiple subsurface investigations with the collection of soil and groundwater samples have occurred on-site over time to assess potential impact from former site use. Laboratory data shows the presence of arsenic, barium, benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, cadmium, chromium, copper, cyanide, ethylbenzene, dibenzo(a,h)anthracene, 1,2 dichloroethane, fluoranthene, lead, mercury, methylene chloride, mineral spirits, mineral oil, naphthalene, nickel, phenanthrene, PCBs, selenium, silver, xylene, and zinc above applicable MDEQ cleanup criteria at locations throughout the subject property. Due to proximity to the subject property and lack of contaminant delineation, this site is considered a REC to the subject property.

7. 301 North Water Street, Bay Aggregates, adjoining to the north. The site was listed on the UST and BEA databases according to the EDR report. The site was historically

operated for industrial purposes from the mid-1800s to the 1990s. Multiple subsurface investigations with the collection of soil and groundwater samples have occurred on-site over time to assess potential impact from former site use. Laboratory data shows the presence of acenaphthene, anthracene, barium, benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, lead, mercury, phenanthrene, selenium, silver, trichloroethylene, xylenes, 1,2 dichloroethane, and 1,2,4-trimethylbenzene above applicable MDEQ cleanup criteria at locations throughout the subject property.

8. 102 10th Street, adjoining to the east was listed as a BEA site within the EDR Report. According to MDEQ records it was determined that magnesium, mercury, and PCBs within the soil at "facility" levels at various locations throughout the property exceeding the drinking water criteria, the groundwater to surface water interface criteria, and the direct contact criteria. The contamination was identified from 2-10" bgs. The investigation that identified the "facility" compounds was conducted in 2001. No investigations have been conducted since that time. Due to proximity to the subject property, lack of contaminant delineation, and inferred groundwater flow direction, this site is considered a REC to the subject property.

5.2 SUMMARY OF SUBSURFACE INVESTIGATION

The purpose of the investigation was to evaluate for the presence of contamination attributable to the aforementioned RECs. AKT Peerless subsurface investigation of the subject property included: (1) the completion of a geophysical survey to evaluate for the presence of abandoned USTs, (2) the advancement of seven soil borings (B-1 through B-7) to a maximum depth of 24 feet bgs, (3) the installation of four temporary groundwater monitoring wells (B-2, B-3, B-4, B-7), (4) collected 8 soil samples (one from each boring, except B-1 from which two soil samples were collected, 4 groundwater samples and 6 QA/QC samples for laboratory analysis.

The following samples were submitted for laboratory analyses:

- Eight soil samples were submitted for laboratory analyses of VOCs, PNAs, PCBs, and 10 Michigan Metals.
- Four groundwater samples were submitted for laboratory analyses of VOCs, PNAs, PCBs, and 10 Michigan Metals.

The analytical results identified select metals, PNAs, and VOCs above one or more Part 201 Generic Cleanup Criteria, specifically Drinking Water, Groundwater Surface Water Interface and/or Direct Contact. Contaminants were primarily identified in subsurface soil present from 3.0 to 8 feet bgs. Based on the groundwater results, contaminants identified in soil do not appear to be readily leaching to the shallow unconfined groundwater unit evaluated. In general contaminants are likely attributable to a combination of the historical operations on the subject property and/or the historical import of contaminant containing fill form offsite sources.

5.3 CONCLUSIONS

AKT Peerless conducted soil and groundwater sampling in areas most likely to be impacted by contaminants based on information obtained through the completion of the Phase I ESA conducted on the subject property. According to laboratory analytical results, target compounds were detected at concentrations exceeding the MDEQ Part 201 Generic Residential Cleanup Criteria. Therefore, the subject property is a "***facility***" as the term as defined by Part 201 of Michigan"s Natural Resources and Environmental Protection Act of 1994, as amended (NREPA). In summary, the term "***facility***" is defined by Part 201 as a place where contaminants have been released, deposited or otherwise come to be located at a concentration exceeding the Part 201 Generic Cleanup Criteria.

5.4 RECOMMENDATIONS

AKT Peerless recommends any future owner(s)/operator(s) prepare a Baseline Environmental Assessment (BEA) report. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a *facility* on, or after June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to the MDEQ and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a facility, AKT Peerless recommends conducting a Section 20107(a) Compliance Analysis to assure compliance with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising due care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that the protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to the MDEQ and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.

Therefore, AKT Peerless recommends that a Due Care Plan be prepared for benefit of the current and future owners and/or operators to evaluate potentially complete exposure pathways and reduce the potential for inadvertently exacerbating known soil and groundwater contamination. The Due Care Plan should establish the necessary response activities, soil and groundwater handling measures, prohibited activities, and other applicable measures.

6.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

The following individuals contributed to the completion of this investigation.

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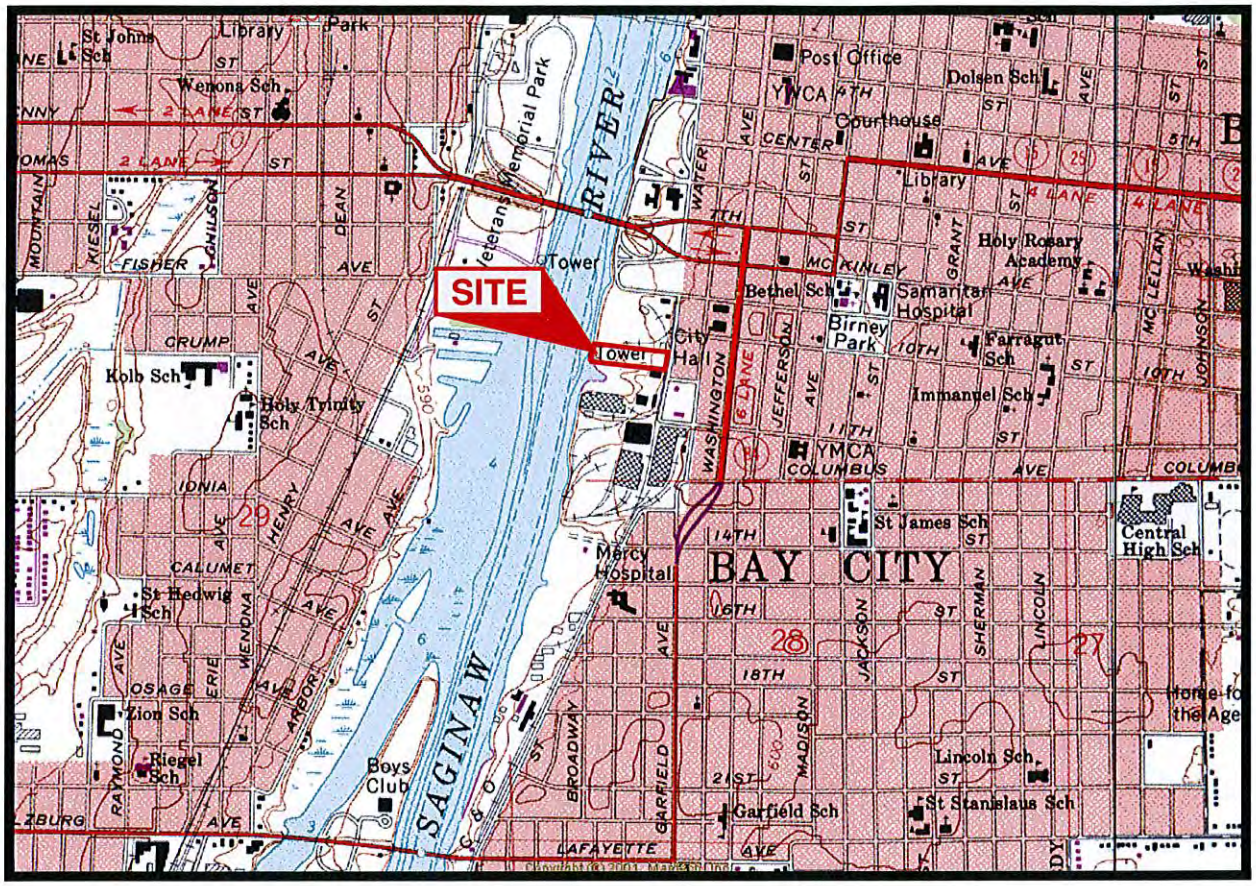
FIGURES

BAY CITY QUADRANGLE

MICHIGAN - BAY COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)



T.14 N.-R.5 E.

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

MICHIGAN
QUADRANGLE LOCATION

IMAGE TAKEN FROM 1967 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1973

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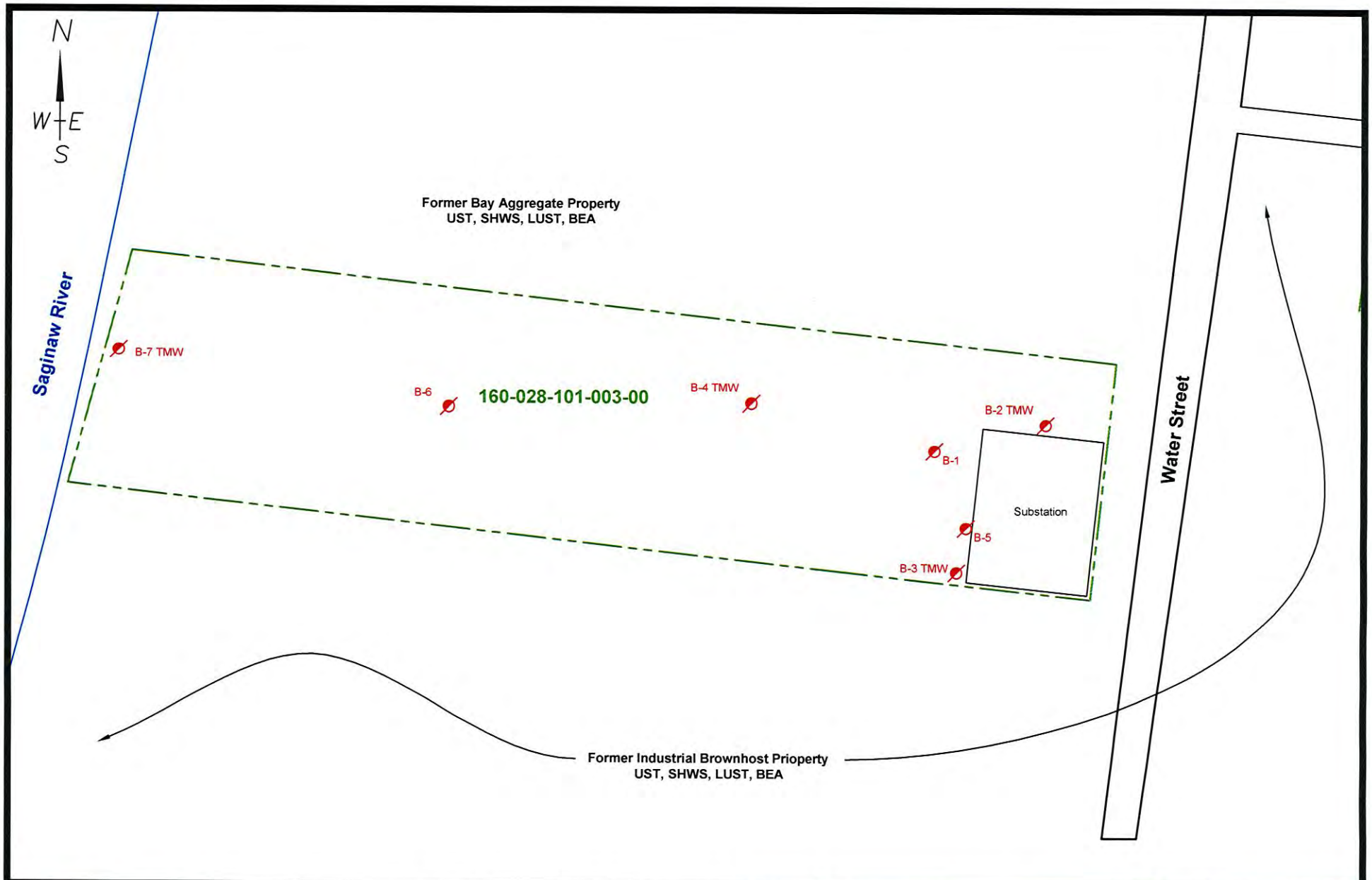
TOPOGRAPHIC LOCATION MAP

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

DRAWN BY: OGO
DATE: 07-13-11

FIGURE I



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SAMPLE LOCATION MAP

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

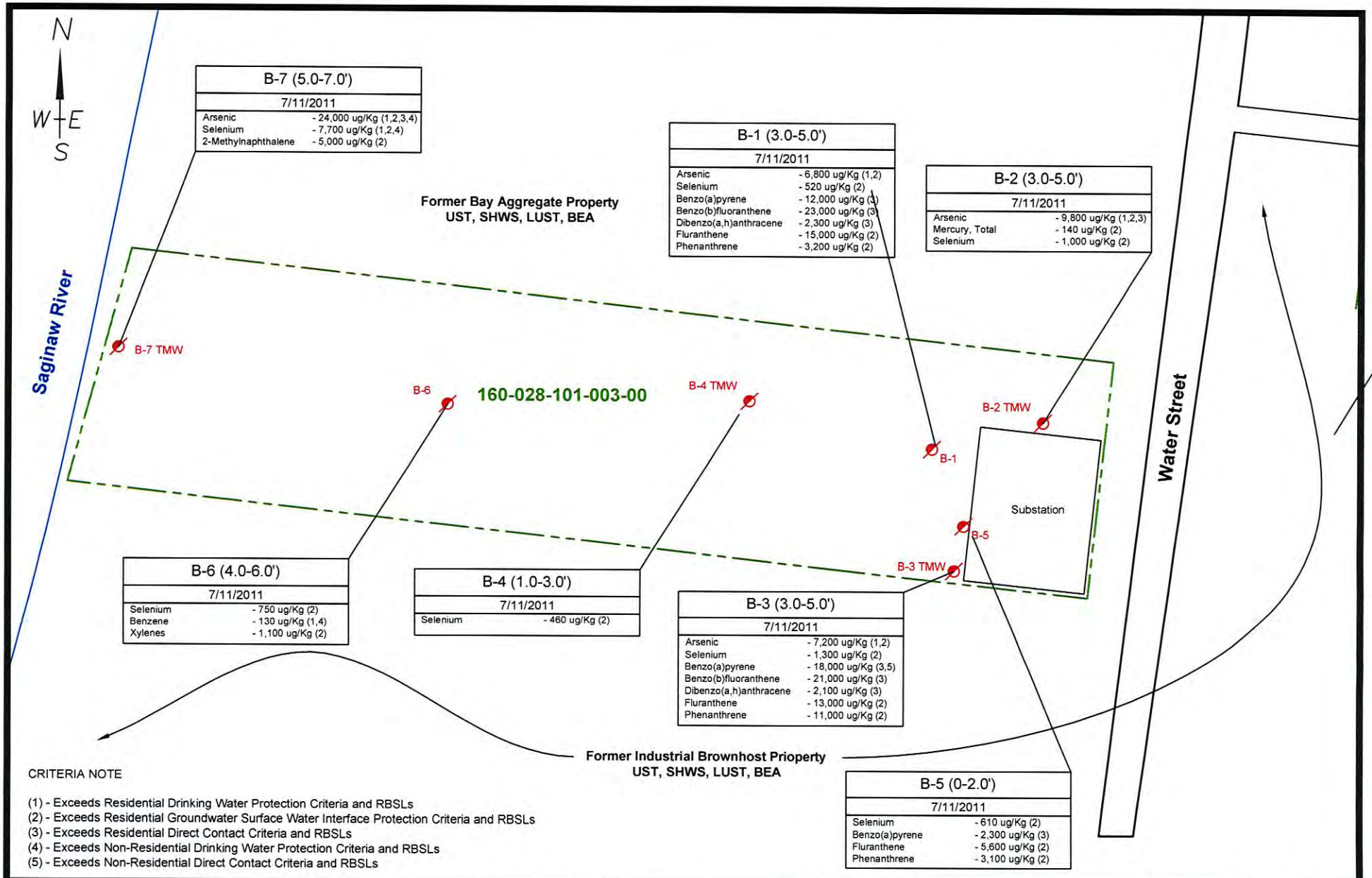
LEGEND

= PROPERTY LINE
= SOIL BORING

DRAWN BY: OGO
DATE: 07-13-11

0 50 100
SCALE: 1" = 100' ±0

FIGURE 2



B-7 (5.0-7.0')	
7/11/2011	
Arsenic	- 24,000 ug/Kg (1,2,3,4)
Selenium	- 7,700 ug/Kg (1,2,4)
2-Methylnaphthalene	- 5,000 ug/Kg (2)

B-1 (3.0-5.0')	
7/11/2011	
Arsenic	- 6,800 ug/Kg (1,2)
Selenium	- 520 ug/Kg (2)
Benzo(a)pyrene	- 12,000 ug/Kg (3)
Benzo(b)fluoranthene	- 23,000 ug/Kg (3)
Dibenzo(a,h)anthracene	- 2,300 ug/Kg (3)
Fluranthene	- 15,000 ug/Kg (2)
Phenanthrene	- 3,200 ug/Kg (2)

B-2 (3.0-5.0')	
7/11/2011	
Arsenic	- 9,800 ug/Kg (1,2,3)
Mercury, Total	- 140 ug/Kg (2)
Selenium	- 1,000 ug/Kg (2)

B-6 (4.0-6.0')	
7/11/2011	
Selenium	- 750 ug/Kg (2)
Benzene	- 130 ug/Kg (1,4)
Xylenes	- 1,100 ug/Kg (2)

B-4 (1.0-3.0')	
7/11/2011	
Selenium	- 460 ug/Kg (2)

B-3 (3.0-5.0')	
7/11/2011	
Arsenic	- 7,200 ug/Kg (1,2)
Selenium	- 1,300 ug/Kg (2)
Benzo(a)pyrene	- 18,000 ug/Kg (3,5)
Benzo(b)fluoranthene	- 21,000 ug/Kg (3)
Dibenzo(a,h)anthracene	- 2,100 ug/Kg (3)
Fluranthene	- 13,000 ug/Kg (2)
Phenanthrene	- 11,000 ug/Kg (2)

B-5 (0-2.0')	
7/11/2011	
Selenium	- 610 ug/Kg (2)
Benzo(a)pyrene	- 2,300 ug/Kg (3)
Fluranthene	- 5,600 ug/Kg (2)
Phenanthrene	- 3,100 ug/Kg (2)

CRITERIA NOTE

(1) - Exceeds Residential Drinking Water Protection Criteria and RBSLs
(2) - Exceeds Residential Groundwater Surface Water Interface Protection Criteria and RBSLs
(3) - Exceeds Residential Direct Contact Criteria and RBSLs
(4) - Exceeds Non-Residential Drinking Water Protection Criteria and RBSLs
(5) - Exceeds Non-Residential Direct Contact Criteria and RBSLs

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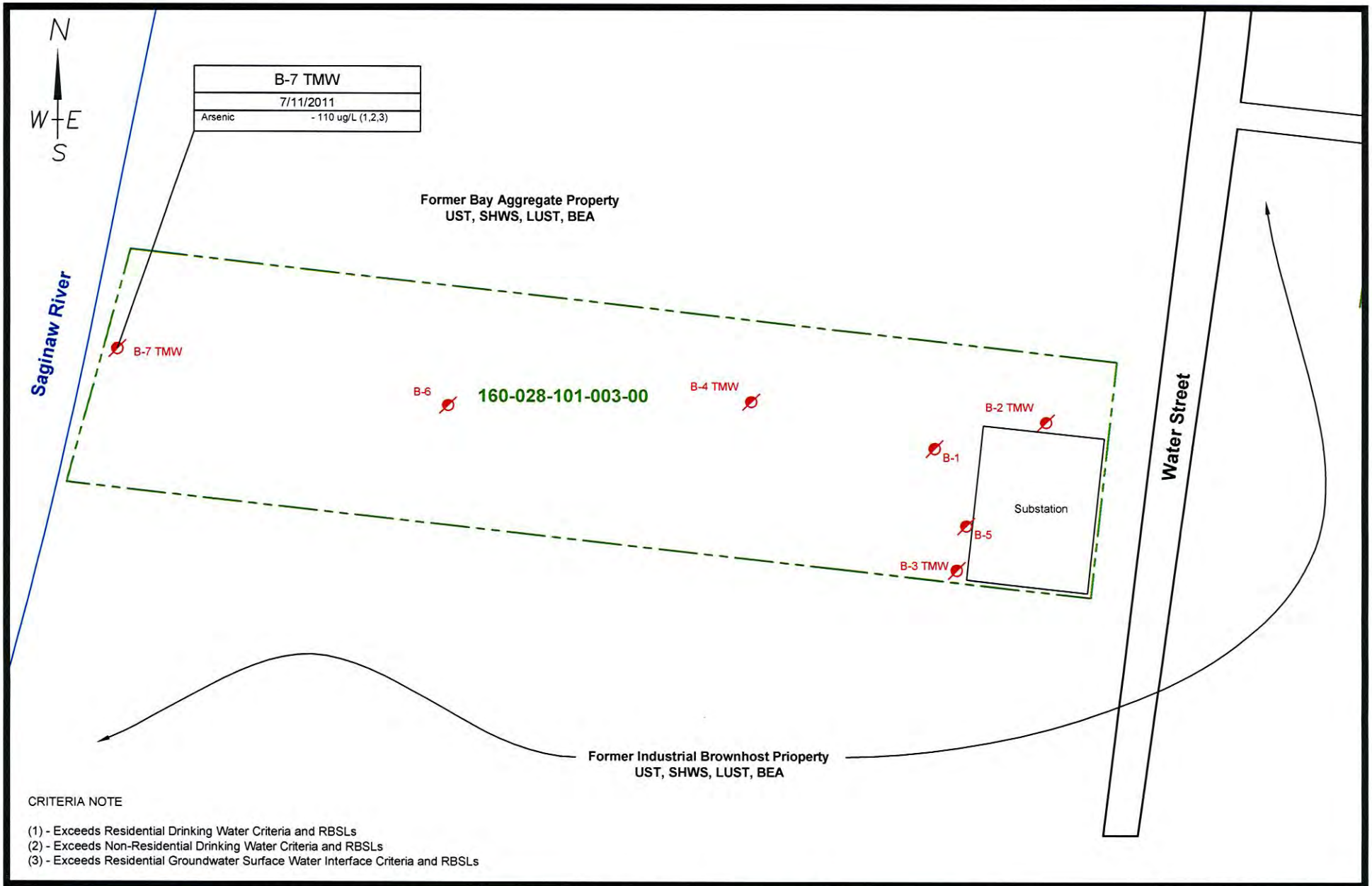
SITE MAP WITH SOIL RESULTS EXCEEDING MDEQ GCC
203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

LEGEND
= PROPERTY LINE
= SOIL BORING

DRAWN BY: OGO
DATE: 07-18-11
0 50 100
SCALE: 1" = 100'±0

FIGURE 3



CRITERIA NOTE

(1) - Exceeds Residential Drinking Water Criteria and RBSLs
(2) - Exceeds Non-Residential Drinking Water Criteria and RBSLs
(3) - Exceeds Residential Groundwater Surface Water Interface Criteria and RBSLs

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SITE MAP WITH SOIL RESULTS EXCEEDING MDEQ GCC
203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

LEGEND
= PROPERTY LINE
= SOIL BORING

DRAWN BY: OGO
DATE: 07-18-11
0 50 100
SCALE: 1" = 100'±0

FIGURE 4

TABLES

Table 1, Summary of Soil Analytical Results
203 Water Street
AKT Peerless Project No. 7059s

Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria and RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs	Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Residential Finite VSIC for 5 Meter Source Thickness	Residential Finite VSIC for 2 Meter Source Thickness	Residential Particulate Soil Inhalation Criteria and RBSLs	Residential Direct Contact Criteria and RBSLs	Residential Soil Saturation Concentration Screening Levels	Residential Drinking Water Protection Criteria & RBSLs	Non-residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Protection Criteria & RBSLs	Groundwater Contact Protection Criteria & RBSLs	Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs	Non-Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Non-Residential Finite VSIC for 5 Meter Source Thickness	Non-Residential Finite VSIC for 2 Meter Source Thickness	Non-Residential Particulate Soil Inhalation Criteria and RBSLs	Non-Residential Direct Contact Criteria and RBSLs	Soil Saturation Concentration Screening Levels									
Guidesheet Number →		#10	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27	#20									
(Refer to detailed laboratory report for method reference data)																								Sample Location	B-1 (0-2')	B-1 (3-5')	B-2 (3-5')	B-3 (3-5')	B-4 (1-3')	B-5 (0-2')	B-6 (4-6')	B-7 (5-7')
																								Collection Date	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011
																								Depth	0-2.0	3.0-5.0	3.0-5.0	3.0-5.0	1.0-3.0	0-2.0	4.0-6.0	5.0-7.0
Metals ug/Kg																																
Arsenic	7440-38-2	**5,800**	**4,600**	**4,600**	2.0E+6	NLV	NLV	NLV	NLV	7.2E+5	**7,600**	NA	**4,600**	**4,600**	**4,600**	2.0E+6	NLV	NLV	NLV	NLV	9.1E+5	37,000	NA		1,600	**6,800**	**9,800**	**7,200**	2,800	4,900	3,400	**24,000**
Barium (B)	7440-39-3	75,000	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	3.3E+8	3.7E+7	NA	1.3E+6	1.3E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	1.5E+8	1.3E+8	NA		45,000	100,000	170,000	59,000	360,000	53,000	31,000	29,000
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	2.3E+8	NLV	NLV	NLV	NLV	1.7E+6	5.5E+5	NA	**6,000**	**6,000**	(G,X)	2.3E+8	NLV	NLV	NLV	NLV	2.2E+6	2.1E+6	NA		210	310	580	630	150	1,100	55	130
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	1.4E+8	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA	30,000	30,000	**3,300**	1.4E+8	NLV	NLV	NLV	NLV	2.4E+5	9.2E+6	NA		11,000	9,500	8,700	5,600	7,200	7,600	4,200	5,000
Copper (B)	7440-50-8	32,000	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	1.3E+8	2.0E+7	NA	5.8E+6	5.8E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	5.9E+7	7.3E+7	NA		9,200	65,000	110,000	43,000	6,200	45,000	12,000	46,000
Lead (B)	7439-92-1	21,000	7.0E+5	(G,X)	ID	NLV	NLV	NLV	NLV	1.0E+8	4.0E+5	NA	7.0E+5	7.0E+5	(G,X)	ID	NLV	NLV	NLV	NLV	4.4E+7	9.0E+5 (DD)	NA		8,400	120,000	170,000	65,000	9,800	110,000	7,400	5,500
Mercury, Total	7439-97-6	**130**	1,700	**50 (M); 1.2**	47,000	48,000	52,000	52,000	52,000	2.0E+7	1.6E+5	NA	1,700	1,700	**50 (M); 1.2**	47,000	89,000	62,000	62,000	62,000	8.8E+6	5.8E+5	NA		<50	80	**140**	58	<50	130	50	<50
Selenium (B)	7782-49-2	**410**	**4,000**	**400**	7.8E+7	NLV	NLV	NLV	NLV	1.3E+8	2.6E+6	NA	**4,000**	**4,000**	**400**	7.8E+7	NLV	NLV	NLV	NLV	5.9E+7	9.6E+6	NA		380	**520**	**1,000**	**1,300**	**460**	**610**	**750**	**7,700**
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	2.0E+8	NLV	NLV	NLV	NLV	6.7E+6	2.5E+6	NA	4,500	13,000	100 (M); 27	2.0E+8	NLV	NLV	NLV	NLV	2.9E+6	9.0E+6	NA		<100	<100	300	130	<100	110	<100	<100
Zinc (B)	7440-66-6	47,000	2.4E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	ID	1.7E+8	NA	2.4E+6	5.0E+6	(G)	1.0E+9 (D)	NLV	NLV	NLV	NLV	ID	6.3E+8	NA		32,000	110,000	220,000	180,000	20,000	260,000	15,000	23,000
PCBs ug/Kg																																
PCB, Aroclor 1016	12674-11-2	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1221	11104-28-2	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1232	11141-16-5	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1242	53469-21-9	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1248	12672-29-6	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1254	11097-69-1	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1260	11096-82-5	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1262	37324-23-5	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
PCB, Aroclor 1268	11100-14-4	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA		<330	<330	<330	<330	<330	<330	<330	<330
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA	NLL	NLL	NLL	NLL	1.6E+7	8.1E+5	2.8E+7	2.8E+7	6.5E+6	(T)	NA			<330	<330	<330	<330	<330	<330	<330
Semivolatiles, PNAs ug/Kg																																
Acenaphthene	83-32-9	NA	3.0E+5	8,700	9.7E+5	1.9E+8	8.1E+7	8.1E+7	8.1E+7	1.4E+10	4.1E+7	NA	3.0E+5	8.8E+5	8,700	9.7E+5	3.5E+8	9.7E+7	9.7E+7	9.7E+7	6.2E+9	1.3E+8	NA		<330	<330	<330	860	<330	<330	<330	<330
Acenaphthylene	208-96-8	NA	5,900	ID	4.4E+5	1.6E+6	2.2E+6	2.2E+6	2.2E+6	2.3E+9	1.6E+6	NA	5,900	17,000	ID	4.4E+5	3.0E+6	2.7E+6	2.7E+6	2.7E+6	1.0E+9	5.2E+6	NA		<330	<330	<330	1,100	<330	<330	<330	<330
Anthracene	120-12-7	NA	41,000	ID	41,000	1.0E+9 (D)	1.4E+9	1.4E+9	1.4E+9	6.7E+10	2.3E+8	NA	41,000	41,000	ID	41,000	1.0E+9 (D)	1.6E+9	1.6E+9	1.6E+9	2.9E+10	7.3E+8	NA		<330	580	<330	2,900	<330	480	<330	<330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000	NA		790	9,400	<330	5,300	<330	2,200	<330	<330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	**2,000**	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	1.9E+6	**8,000**	NA		850	**12,000**	<330	**18,000**	<330	**2,300**	<330	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	NLL	ID	ID	ID	ID	ID	**20,000**	NA	NLL	NLL	NLL	NLL	ID	ID	ID	ID	ID	80,000	NA		1,400	**23,000**	480	**21,000**	410	3,500	<330	<330
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.5E+6	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	3.5E+8	7.0E+6	NA		330	7,500	<330	6,800	<330	1,200	<330	<330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.0E+5	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	8.0E+5	NA		460	6,400	<330	5,700	<330	1,300	<330	<330
Chrysene (Q)	218-01-9	NA	NLL	NLL	NLL	ID	ID	ID	ID	ID	2.0E+6	NA	NLL	NLL	NLL	NLL	ID	ID	ID	ID	ID	8.0E+6	NA		830	12,000	<330	4,300	<330	2,100	<330	<330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	**2,000**	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	8,000	NA		<330	**2,300**	<330	**2,100**	<330	<330	<330	<330
Fluoranthene	206-44-0	NA	7.3E+5	**5,500**	7.3E+5	1.0E+9 (D)	7.4E+8	7.4E+8	7.4E+8	9.3E+9	4.6E+7	NA	7.3E+5	7.3E+5	**5,500**	7.3E+5	1.0E+9 (D)	8.9E+8	8.8E+8	8.8E+8	4.1E+9	1.3E+8	NA		2,500	**15,000**	680	**13,000**	650	**5,600**	<330	<330
Fluorene	86-73-7	NA	3.9E+5	5,300	8.9E+5	5.8E+8	1.3E+8	1.3E+8	1.3E+8	9.3E+9	2.7E+7	NA	3.9E+5	8.9E+5	5,300	8.9E+5	1.0E+9 (D)	1.5E+8	1.5E+8	1.5E+8	4.1E+9	8.7E+7	NA		<330	<330	<330	1,400	<330	<330	<330	<330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	NLL	NLL	NLL	NLL	NLV	NLV	NLV	NLV	ID	80,000	NA		400	8,700	<330	8,400	<330	1,300	<330	<330
2-Methylnaphthalene	91-57-6	NA	57,000	**4,200**	5.5E+6	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA	57,000	1.7E+5	**4,200**	5.5E+6	4.9E+6	1.8E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	NA		360	<330	490	860	920	<330	4,100	**5,000**
Phenanthrene	85-01-8	NA	56,000	**2,100**	1.1E+6	2.8E+6	1.6E+5	1.6E+5	1.6E+5	6.7E+6	1.6E+6	NA	56,000	1.6E+5	**2,100**	1.1E+6	5.1E+6	1.9E+5	1.9E+5	1.9E+5	2.9E+6	5.2E+6	NA		1,700	**3,200**	660	**11,000**	660	**3,100**	1,300	1,500
Pyrene	129-00-0	NA	4.8E+5	ID	4.8E+5	1.0E+9 (D)	6.5E+8	6.5E+8	6.5E+8	6.7E+9	2.9E+7	NA	4.8E+5	4.8E+5	ID	4.8E+5	1.0E+9 (D)	7.8E+8	7.8E+8	7.8E+8	2.9E+9	8.4E+7	NA		1,900	12,000	510	16,000	510	4,400	<330	<330
Volatiles, VOCs ug/Kg																																
Acetone (I)	67-64-1	NA	15,000	34,000	1.1E+8 (C)	1.1E+8 (C)	1.3E+8	1.3E+8	1.9E+8	3.9E+11	2.3E+7	1.1E+8	15,000	42,000	34,000	1.1E+8 (C)	1.1E+8 (C)	1.6E+8	1.6E+8	2.0E+8	1.7E+11	7.3E+7	1.1E+8		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Acrylonitrile (I)	107-13-1	NA	100 (M); 52	100 (M); 40	2.8E+5	6,600	5,000	5,100	10,000	4.6E+7	16,000	8.3E+6	100 (M); 52	220	100 (M); 40	2.8E+5	35,000	17,000	17,000	31,000	5.8E+7	74,000	8.3E+6		<100	<100	<100	<100	<100	<100	<100	<100
Benzene (I)	71-43-2	NA	**100**	4,000 (X)	2.2E+5	1,600	13,000	34,000	79,000	3.8E+8	1.8E+5	4.0E+5	**100**	**100**	4,000 (X)	2.2E+5	8,400	45,000	99,000	2.3E+5	4.7E+8	4.0E+5 (C)	4.0E+5		<50	<50	<50	<50	<50	<50	**130**	<50
Bromobenzene (I)	108-86-1	NA	550	NA	3.6E+5	3.1E+5	4.5E+5	4.5E+5	4.5E+5	5.3E+8	5.4E+5	7.6E+5	550	1,500	NA	3.6E+5	5.8E+5	5.4E+5	5.4E+5	5.4E+5	2.4E+8	7.6E+5 (C)	7.6E+5		<100	<100	<100	<100	<100	<100	<100	<100
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	2.8E+5	1,200	9,100	9,700	19,000	8.4E+7	1.1E+5	1.5E+6	1,600 (W)	1,600 (W)	ID	2.8E+5	6,400	31,000	31,000	57,000	1.1E+8	4.9E+5	1.5E+6		<100	<100	<100	<100	<100	<100	<100	<100
Bromoform	75-25-2	NA	1,600 (W)	ID	8.7E+5 (C)	1.5E+5	9.0E+5	9.0E+5	9.0E+5	2.8E+9	8.2E+5	8.7E+5	1,600 (W)	1,600 (W)	ID	8.7E+5 (C)	7.7E+5	3.1E+6	3.1E+6	3.1E+6	3.6E+9	8.7E+5 (C)	8.7E+5		<100	<100	<100	<100	<100	<100	<100	<100
Bromomethane	74-83-9	NA	200	700	1.4E+6	860	11,000	57,000	1.4E+5	3.3E+8	3.2E+5	2.2E+6	200	580	700	1.4E+6	1,600	13,000	57,000	1.4E+5	1.5E+8	1.0E+6	2.2E+6		<200	<200	<200	<200	<200	<200	<200	<200
2-Butanone (MEK) (I)	78-93-3	NA	2.6E+5	44,000	2.7E+7 (C)	2.7E+7 (C)	2.9E+7	2.9E+7	3.5E+7	6.7E+10	2.7E+7 (C,DD)	2.7E+7	2.6E+5	7.6E+5	44,000	2.7E+7 (C)	2.7E+7 (C)	3.5E+7	3.5E+7	3.6E+7	2.9E+10	2.7E+7 (C,DD)	2.7E+7		<750	<750	<750	<750	<750	<750	<750	<750
n-Butylbenzene	104-51-8	NA	1,600	ID	1.2E+5	ID	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7	1,600	4,600	ID	1.2E+5	ID	ID	ID	ID	8.8E+8	8.0E+6	1.0E+7		<50	<50	<50	<50	<50	<50	<50	<50
sec-Butylbenzene	135-98-8	NA	1,600	ID	88,000	ID	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7	1,600	4,600	ID	88,000	ID	ID	ID	ID	1.8E+8	8.0E+6	1.0E+7		<50	<50	<50	<50	<50	<50	<50	<50
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	1.8E+5	ID	ID	ID	ID	6.7E+8	2.5E+6	1.0E+7	1,600	4,600	ID	1.8E+5	ID	ID	ID	ID	2.9E+8	8.0E+6	1.0E+7		<50	<50	<50	<50	<50	<50	<50	<50
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	2.8E+5 (C)	76,000	1.3E+6	7.9E+6	1.9E+7	4.7E+10	2.8E+5 (C,DD)	2.8E+5	16,000	46,000	ID	2.8E+5 (C)	1.4E+5	1.6E+6	8.0E+6	1.9E+7	2.1E+10	2.8E+5 (C,DD)	2.8E+5		<250	<250	<250	<250	<250	<250	<250	<250
Carbon tetrachloride	56-23-5	NA	100	900 (X)	92,000	190	3,500	12,000	28,000	1.3E+8	96,000	3.9E+5	100	100	900 (X)	92,000	990	12,000	34,000	79,000	1.7E+8	3.9E+5 (C)	3.9E+5		<50	<50	<50	<50	<50	<50	<50	<50
Chlorobenzene (I)	108-90-7	NA	2,000	500	2.6E+5 (C)	1.2E+5	7.7E+5	9.9E+5	2.1E+6	4.7E+9	2.6E+5 (C)	2.6E+5	2,000	2,000	500	2.6E+5 (C)	2.2E+5	9.2E+5	1.1E+6	2.1E+6	2.1E+9	2.6E+5 (C)	2.6E+5		<50	<50	<50	<50	<50	<50	<50	<50

Table 1, Summary of Soil Analytical Results
203 Water Street
AKT Peerless Project No. 7059s

Guidesheet Number	→	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	#11	#21	#12	#13	#22	#23	#24	#25	#26	#27	#20									
Parameters*	**Chemical Abstract Service Number**	**Statewide Default Background Levels**	**Residential Drinking Water Protection Criteria and RBSLs**	**Groundwater Surface Water Interface Protection Criteria & RBSLs**	**Groundwater Contact Protection Criteria & RBSLs**	**Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs**	**Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs**	**Residential Finite VSIC for 5 Meter Source Thickness**	**Residential Finite VSIC for 2 Meter Source Thickness**	**Residential Particulate Soil Inhalation Criteria and RBSLs**	**Residential Direct Contact Criteria and RBSLs**	**Residential Soil Saturation Concentration Screening Levels**	**Residential Drinking Water Protection Criteria & RBSLs**	**Non-residential Drinking Water Protection Criteria & RBSLs**	**Groundwater Surface Water Interface Protection Criteria & RBSLs**	**Groundwater Contact Protection Criteria & RBSLs**	**Non-Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs**	**Non-Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs**	**Non-Residential Finite VSIC for 5 Meter Source Thickness**	**Non-Residential Finite VSIC for 2 Meter Source Thickness**	**Non-Residential Particulate Soil Inhalation Criteria and RBSLs**	**Non-Residential Direct Contact Criteria and RBSLs**	**Soil Saturation Concentration Screening Levels**	Sample Location	B-1 (0-2')	B-1 (3-5')	B-2 (3-5')	B-3 (3-5')	B-4 (1-3')	B-5 (0-2')	B-6 (4-6')	B-7 (5-7')
**(Refer to detailed laboratory report for method reference data)*																								Collection Date	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011
																								Depth	0-2.0	3.0-5.0	3.0-5.0	3.0-5.0	1.0-3.0	0-2.0	4.0-6.0	5.0-7.0
Chloroethane	75-00-3	NA	8,600	22,000 (X)	9.5E+5 (C)	9.5E+5 (C)	3.0E+7	1.2E+8	2.8E+8	6.7E+11	9.5E+5 (C)	9.5E+5	8,600	34,000	22,000 (X)	9.5E+5 (C)	9.5E+5 (C)	3.6E+7	1.2E+8	2.8E+8	2.9E+11	9.5E+5 (C)	9.5E+5		<250	<250	<250	<250	<250	<250	<250	<250
Chloroform	67-66-3	NA	1,600 (W)	7,000	1.5E+6 (C)	7,200	45,000	1.2E+5	2.7E+5	1.3E+9	1.2E+6	1.5E+6	1,600 (W)	1,600 (W)	7,000	1.5E+6 (C)	38,000	1.5E+5	3.4E+5	7.9E+5	1.6E+9	1.5E+6 (C)	1.5E+6		<50	<50	<50	<50	<50	<50	<50	<50
Chloromethane (I)	74-87-3	NA	5,200	ID	1.1E+6 (C)	2,300	40,000	4.1E+5	1.0E+6	4.9E+9	1.1E+6 (C)	1.1E+6	5,200	22,000	ID	1.1E+6 (C)	10,000	1.2E+5	1.0E+6	2.5E+6	2.6E+9	1.1E+6 (C)	1.1E+6		<250	<250	<250	<250	<250	<250	<250	<250
o-Chlorotoluene (I)	95-49-8	NA	3,300	ID	5.0E+5 (C)	2.7E+5	1.2E+6	2.9E+6	6.3E+6	4.7E+9	5.0E+5 (C)	5.0E+5	3,300	9,300	ID	5.0E+5 (C)	5.0E+5 (C)	1.5E+6	3.1E+6	6.4E+6	2.1E+9	5.0E+5 (C)	5.0E+5		<50	<50	<50	<50	<50	<50	<50	<50
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3.6E+5	3,900	24,000	24,000	33,000	1.3E+8	1.1E+5	6.1E+5	1,600 (W)	1,600 (W)	ID	3.6E+5	21,000	80,000	80,000	98,000	1.6E+8	5.0E+5	6.1E+5		<100	<100	<100	<100	<100	<100	<100	<100
Dibromochloropropane	96-12-8	NA	10 (M); 4.0	ID	1,200 (C)	1,200 (C)	13,000	13,000	13,000	1.3E+7	1,200 (C)	1,200	10 (M); 4.0	10 (M); 4.0	ID	1,200 (C)	1,200 (C)	15,000	15,000	15,000	5.9E+6	1,200 (C)	1,200		<10	<10	<10	<10	<10	<10	<10	<10
Dibromomethane	74-95-3	NA	1,600	NA	2.0E+6 (C)	ID	ID	ID	ID	ID	2.0E+6 (C)	2.0E+6	1,600	4,600	NA	2.0E+6 (C)	ID	ID	ID	ID	ID	2.0E+6 (C)	2.0E+6		<250	<250	<250	<250	<250	<250	<250	<250
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	2.1E+5 (C)	2.1E+5 (C)	3.9E+7	3.9E+7	5.2E+7	1.0E+11	2.1E+5 (C)	2.1E+5	14,000	14,000	280	2.1E+5 (C)	2.1E+5 (C)	4.6E+7	4.6E+7	5.5E+7	4.4E+10	2.1E+5 (C)	2.1E+5		<100	<100	<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	541-73-1	NA	170	680	51,000	26,000	79,000	79,000	1.1E+5	2.0E+8	1.7E+5 (C)	1.7E+5	170	480	680	51,000	48,000	94,000	94,000	1.1E+5	8.8E+7	1.7E+5 (C)	1.7E+5		<100	<100	<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	1.4E+5	19,000	77,000	77,000	1.1E+5	4.5E+8	4.0E+5	NA	1,700	1,700	360	1.4E+5	1.0E+5	2.6E+5	2.6E+5	3.4E+5	5.7E+8	1.9E+6	NA		<100	<100	<100	<100	<100	<100	<100	<100
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	1.0E+6 (C)	9.0E+5	5.3E+7	5.5E+8	1.4E+9	3.3E+12	1.0E+6 (C)	1.0E+6	95,000	2.7E+5	ID	1.0E+6 (C)	1.7E+6	6.3E+7	5.5E+8	1.4E+9	1.5E+12	1.0E+6 (C)	1.0E+6		<250	<250	<250	<250	<250	<250	<250	<250
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	8.9E+5 (C)	2.3E+5	2.1E+6	5.9E+6	1.4E+7	3.3E+10	8.9E+5 (C)	8.9E+5	18,000	50,000	15,000	8.9E+5 (C)	4.3E+5	2.5E+6	6.0E+6	1.4E+7	1.5E+10	8.9E+5 (C)	8.9E+5		<50	<50	<50	<50	<50	<50	<50	<50
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	3.8E+5	2,100	6,200	11,000	26,000	1.2E+8	91,000	1.2E+6	100	100	7,200 (X)	3.8E+5	11,000	21,000	33,000	74,000	1.5E+8	4.2E+5	1.2E+6		<50	<50	<50	<50	<50	<50	<50	<50
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	6.4E+5 (C)	22,000	1.8E+5	4.2E+5	9.9E+5	2.3E+9	6.4E+5 (C)	6.4E+5	1,400	1,400	12,000	6.4E+5 (C)	41,000	2.1E+5	4.3E+5	1.0E+6	1.0E+9	6.4E+5 (C)	6.4E+5		<50	<50	<50	<50	<50	<50	<50	<50
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	1.4E+6 (C)	23,000	2.8E+5	8.3E+5	2.0E+6	4.7E+9	1.4E+6 (C)	1.4E+6	2,000	2,000	30,000 (X)	1.4E+6 (C)	43,000	3.3E+5	8.4E+5	2.0E+6	2.1E+9	1.4E+6 (C)	1.4E+6		<50	<50	<50	<50	<50	<50	<50	<50
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	2.2E+5	62	1,100	5,300	13,000	6.2E+7	2.0E+5	5.7E+5	140	140	2,600	2.2E+5	330	3,700	15,000	37,000	7.8E+7	5.7E+5 (C)	5.7E+5		<50	<50	<50	<50	<50	<50	<50	<50
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	3.2E+5	4,000	25,000	50,000	1.1E+5	2.7E+8	1.4E+5	5.5E+5	100	100	4,600 (X)	3.2E+5	7,400	30,000	51,000	1.2E+5	1.2E+8	5.5E+5 (C)	5.5E+5		<50	<50	<50	<50	<50	<50	<50	<50
cis-1,3-Dichloropropylene	10061-01-5	NA	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		<50	<50	<50	<50	<50	<50	<50	<50
trans-1,3-Dichloropropylene	10061-02-6	NA	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		<50	<50	<50	<50	<50	<50	<50	<50
Ethylbenzene (I)	100-41-4	NA	1,500	360	1.4E+5 (C)	87,000	7.2E+5	1.0E+6	2.2E+6	1.0E+10	1.4E+5 (C)	1.4E+5	1,500	1,500	360	1.4E+5 (C)	1.4E+5 (C)	2.4E+6	3.1E+6	6.5E+6	1.3E+10	1.4E+5 (C)	1.4E+5		<50	<50	<50	<50	<50	<50	150	<50
Ethylene dibromide	106-93-4	NA	20 (M); 1.0	110 (X)	500	670	1,700	1,700	3,300	1.4E+7	92	8.9E+5	20 (M); 1.0	20 (M); 1.0	110 (X)	500	3,600	5,800	5,800	9,800	1.8E+7	430	8.9E+5		<20	<20	<20	<20	<20	<20	<20	<20
2-Hexanone	591-78-6	NA	20,000	ID	2.5E+6 (C)	9.9E+5	1.1E+6	1.1E+6	1.4E+6	2.7E+9	2.5E+6 (C)	2.5E+6	20,000	58,000	ID	2.5E+6 (C)	1.8E+6	1.3E+6	1.3E+6	1.5E+6	1.2E+9	2.5E+6 (C)	2.5E+6		<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
Isopropyl benzene	98-82-8	NA	91,000	3,200	3.9E+5 (C)	3.9E+5 (C)	1.7E+6	1.7E+6	2.8E+6	5.8E+9	3.9E+5 (C)	3.9E+5	91,000	2.6E+5	3,200	3.9E+5 (C)	3.9E+5 (C)	2.0E+6	2.0E+6	3.0E+6	2.6E+9	3.9E+5 (C)	3.9E+5		<250	<250	<250	<250	<250	<250	<250	<250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	2.7E+6 (C)	2.7E+6 (C)	4.5E+7	4.5E+7	6.7E+7	1.4E+11	2.7E+6 (C)	2.7E+6	36,000	1.0E+5	ID	2.7E+6 (C)	2.7E+6 (C)	5.3E+7	5.3E+7	7.0E+7	6.0E+10	2.7E+6 (C)	2.7E+6		<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
Methylene chloride	75-09-2	NA	100	30,000 (X)	2.3E+6 (C)	45,000	2.1E+5	5.9E+5	1.4E+6	6.6E+9	1.3E+6	2.3E+6	100	100	30,000 (X)	2.3E+6 (C)	2.4E+5	7.0E+5	1.7E+6	4.0E+6	8.3E+9	2.3E+6 (C)	2.3E+6		<300	<490	<490	<1,200	<440	<730	<420	<320
2-Methylnaphthalene	91-57-6	NA	57,000	**4,200**	5.5E+6	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA	57,000	1.7E+5	**4,200**	5.5E+6	4.9E+6	1.8E+6	1.8E+6	1.8E+6	2.9E+8	2.6E+7	NA		360	<330	490	860	920	<330	4,100	**5,000**
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	5.9E+6 (C)	5.9E+6 (C)	2.5E+7	3.9E+7	8.7E+7	2.0E+11	1.5E+6	5.9E+6	800	800	1.4E+5 (X)	5.9E+6 (C)	5.9E+6 (C)	3.0E+7	4.1E+7	8.9E+7	8.8E+10	5.9E+6 (C)	5.9E+6		<250	<250	<250	<250	<250	<250	<250	<250
Naphthalene	91-20-3	NA	35,000	730	2.1E+6	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA	35,000	1.0E+5	730	2.1E+6	4.7E+5	3.5E+5	3.5E+5	3.5E+5	8.8E+7	5.2E+7	NA		<330	<330	<330	<330	<330	<330	580	<330
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	3.0E+5	ID	ID	ID	ID	1.3E+9	2.5E+6	1.0E+7	1,600	4,600	ID	3.0E+5	ID	ID	ID	ID	5.9E+8	8.0E+6	1.0E+7		<100	<100	<100	<100	<100	<100	<100	<100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.7E+5	2.5E+5	9.7E+5	9.7E+5	1.4E+6	5.5E+9	4.0E+5	5.2E+5	2,700	2,700	2,100 (X)	2.7E+5	5.2E+5 (C)	3.3E+6	3.3E+6	4.2E+6	6.9E+9	5.2E+5 (C)	5.2E+5		<50	<50	<50	<50	<50	<50	<50	<50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	4.4E+5 (C)	6,200	36,000	54,000	1.0E+5	4.2E+8	4.4E+5 (C)	4.4E+5	1,500	6,400	ID	4.4E+5 (C)	33,000	1.2E+5	2.1E+5	3.3E+5	5.3E+8	4.4E+5 (C)	4.4E+5		<100	<100	<100	<100	<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	94,000	4,300	10,000	10,000	14,000	5.4E+7	53,000	8.7E+5	170	700	1,600 (X)	94,000	23,000	34,000	34,000	34,000	6.8E+7	2.4E+5	8.7E+5		<50	<50	<50	<50	<50	<50	<50	<50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	88,000 (C)	11,000	1.8E+5	4.8E+5	1.1E+6	5.4E+9	88,000 (C)	88,000	100	100	1,200 (X)	88,000 (C)	60,000	6.0E+5	1.4E+6	3.3E+6	6.8E+9	88,000 (C)	88,000		<50	<50	<50	<50	<50	<50	<50	<50
Toluene (I)	108-88-3	NA	16,000	5,400	2.5E+5 (C)	2.5E+5 (C)	2.8E+6	5.1E+6	1.2E+7	2.7E+10	2.5E+5 (C)	2.5E+5	16,000	16,000	5,400	2.5E+5 (C)	2.5E+5 (C)	3.3E+6	3.6E+7	3.6E+7	1.2E+10	2.5E+5 (C)	2.5E+5		<50	<50	<50	<50	93	<50	960	220
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	1.1E+6 (C)	1.1E+6 (C)	2.8E+7	2.8E+7	2.8E+7	2.5E+10	9.9E+5 (DD)	1.1E+6	4,200	4,200	5,900 (X)	1.1E+6 (C)	1.1E+6 (C)	3.4E+7	3.4E+7	3.4E+7	1.1E+10	1.1E+6 (C,DD)	1.1E+6		<330	<330	<330	<330	<330	<330	<330	<330
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	4.6E+5 (C)	2.5E+5	3.8E+6	1.2E+7	2.8E+7	6.7E+10	4.6E+5 (C)	4.6E+5	4,000	4,000	1,800	4.6E+5 (C)	4.6E+5	4.5E+6	1.5E+7	3.1E+7	2.9E+10	4.6E+5 (C)	4.6E+5		<50	<50	<50	<50	<50	<50	<50	<50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4.2E+5	4,600	17,000	21,000	44,000	1.9E+8	1.8E+5	9.2E+5	100	100	6,600 (X)	4.2E+5	24,000	57,000	57,000	1.2E+5	2.5E+8	8.4E+5	9.2E+5		<50	<50	<50	<50	<50	<50	<50	<50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	4.4E+5	7,100	78,000	1.7E+5	3.9E+5	1.8E+9	5.0E+5 (C,DD)	5.0E+5	100	100	4,000 (X)	4.4E+5	37,000	2.6E+5	4.4E+5	1.1E+6	2.3E+9	5.0E+5 (C,DD)	5.0E+5		<50	<50	<50	<50	<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	5.6E+5 (C)	5.6E+5 (C)	9.2E+7	6.3E+8	1.5E+9	3.8E+12	5.6E+5 (C)	5.6E+5	52,000	1.5E+5	NA	5.6E+5 (C)	5.6E+5 (C)	1.1E+8	1.4E+11	1.4E+11	1.7E+12	5.6E+5 (C)	5.6E+5		<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	8.3E+5 (C)	4,000	9,200	9,200	11,000	2.0E+7	8.3E+5 (C)	8.3E+5	840	2,400	NA	8.3E+5 (C)	7,500	11,000	11,000	12,000	8.8E+6	8.3E+5 (C)	8.3E+5		<100	<100	<100	<100	<100	<100	<100	<100
1,2,3-Trimethylbenzene	526-73-8	NA	1,800	570	94,000 (C)	94,000 (C)	1.6E+7	3.8E+8	3.8E+8	8.2E+10	94,000 (C)	94,000	1,800	1,800	570	94,000 (C)	94,000 (C)	1.9E+7	4.6E+8	4.6E+8	3.6E+10	94,000 (C)	94,000		<100	<100	<100	<100	<100	<100	150	<100
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	1.1E+5 (C)	1.1E+5 (C)	2.1E+7	5.0E+8	5.0E+8	8.2E+10	1.1E+5 (C)	1.1E+5	2,100	2,100	570	1.1E+5 (C)	1.1E+5 (C)	2.5E+7	6.0E+8	6.0E+8	3.6E+10	1.1E+5 (C)	1.1E+5		<100	<100	<100	<100	<100	<100	270	<100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	94,000 (C)	94,000 (C)	1.6E+7	3.8E+8	3.8E+8	8.2E+10	94,000 (C)	94,000	1,800	1,800	1,100	94,000 (C)	94,000 (C)	1.9E+7	4.6E+8	4.6E+8	3.6E+10	94,000 (C)	94,000		<100	<100	<100	<100	<100	<100	<100	<100
Vinyl chloride	75-01-4	NA	40	260 (X)	20,000	270	4,200	30,000	73,000	3.5E+8	3,800	4.9E+5	40	40	260 (X)	20,000	2,800	29,000	1.7E+5	4.2E+5	8.9E+8	34,000	4.9E+5		<40	<40	<40	<40	<40	<40	<40	<40
Xylenes (I)	1330-20-7	NA	5,600	**820**	1.5E+5 (C)	1.5E+5 (C)	4.6E+7	6.1E+7	1.3E+8	2.9E+11	1.5E+5 (C)	1.5E+5	5,600	5,600	**820**	1.5E+5 (C)	1.5E+5 (C)	5.4E+7	6.5E+7	1.3E+8	1.3E+11	1.5E+5 (C)	1.5E+5		<150	<150	<150	<150	<150	<150	**1,100**	370

Table 2, Summary of Groundwater Analytical Results
203 Water Street
Bay City, Michigan
AKT Peerless Project No. 7059s

Guidesheet Number →		#1	#2	#3	#4	#5	#6	#7	#8	#9					
Parameters*	**Chemical Abstract Service Number**	**Residential Drinking Water Criteria & RBSLs**	**Non-residential Drinking Water Criteria & RBSLs**	**Groundwater Surface Water Interface Criteria & RBSLs**	**Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Groundwater Contact Criteria & RBSLs**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Acute Inhalation Screening Level**	Sample Location	B-4	B-7	B-2	B-3
											Collection Date	7/11/2011	7/11/2011	7/11/2011	7/11/2011
(Refer to detailed laboratory report for method reference data)											Depth	3.0-8.0	3.0-8.0	3.0-8.0	3.0-8.0
Metals ug/L															
Arsenic	7440-38-2	**10 (A)**	**10 (A)**	**10**	NLV	NLV	4,300	NA	ID	ID		<5.0	**110**	<5.0	5.4
Barium (B)	7440-39-3	2,000 (A)	2,000 (A)	(G)	NLV	NLV	1.4E+7	NA	ID	ID		280	440	140	150
Cadmium (B)	7440-43-9	5.0 (A)	5.0 (A)	(G,X)	NLV	NLV	1.9E+5	NA	ID	ID		<1.0	<1.0	<1.0	<1.0
Chromium, Total	7440-47-3	100 (A)	100 (A)	11	NLV	NLV	4.6E+5	NA	ID	ID		<10	<10	<10	<10
Copper (B)	7440-50-8	1,000 (E)	1,000 (E)	(G)	NLV	NLV	7.4E+6	NA	ID	ID		13	<4.0	<4.0	5.7
Lead (B)	7439-92-1	4.0 (L)	4.0 (L)	(G,X)	NLV	NLV	ID	NA	ID	ID		<3.0	<3.0	<3.0	<3.0
Mercury, Total	7439-97-6	2.0 (A)	2.0 (A)	0.0013	56 (S)	56 (S)	56 (S)	56	ID	ID		<0.20	<0.20	<0.20	<0.20
Selenium (B)	7782-49-2	50 (A)	50 (A)	5.0	NLV	NLV	9.7E+5	NA	ID	ID		<5.0	<5.0	<5.0	<5.0
Silver (B)	7440-22-4	34	98	0.2 (M); 0.06	NLV	NLV	1.5E+6	NA	ID	ID		<0.34	<0.26	<0.20	<0.20
Zinc (B)	7440-66-6	2,400	5,000 (E)	(G)	NLV	NLV	1.1E+8	NA	ID	ID		<50	<50	<50	<50
PCBs ug/L															
PCB, Aroclor 1016	12674-11-2	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1221	11104-28-2	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1232	11141-16-5	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1242	53469-21-9	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1248	12672-29-6	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1254	11097-69-1	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1260	11096-82-5	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1262	37324-23-5	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
PCB, Aroclor 1268	11100-14-4	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID		<0.20	NT	<0.25	<0.20
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	0.5 (A)	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	45 (S)	3.3 (AA)	44.7	ID	ID					
Semivolatiles, PNAs ug/L															
Acenaphthene	83-32-9	1,300	3,800	38	4,200 (S)	4,200 (S)	4,200 (S)	4,240	ID	ID		<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	52	150	ID	3,900 (S)	3,900 (S)	3,900 (S)	3,930	ID	ID		<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	43 (S)	43 (S)	ID	43 (S)	43 (S)	43 (S)	43.4	ID	ID		<5.0	<5.0	<5.0	<5.0
Benzo(a)anthracene (Q)	56-55-3	2.1	8.5	ID	NLV	NLV	9.4 (S,AA)	9.4	ID	ID		<1.0	<1.1	<1.0	<1.1
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	5.0 (A)	ID	NLV	NLV	1.0 (M,AA); 0.64	1.62	ID	ID		<1.0	<1.1	<1.0	<1.1
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S, AA)	1.5 (S, AA)	ID	ID	ID	1.5 (S,AA)	1.5	ID	ID		<1.0	<1.1	<1.0	<1.1
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	1.0 (M); 0.26 (S)	ID	NLV	NLV	1.0 (M,AA); 0.26 (S)	0.26	ID	ID		<1.0	<1.1	<1.0	<1.1
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	1.0 (M); 0.8 (S)	NA	NLV	NLV	1.0 (M,AA); 0.8 (S)	0.8	ID	ID		<1.0	<1.1	<1.0	<1.1
Chrysene (Q)	218-01-9	1.6 (S)	1.6 (S)	ID	ID	ID	1.6 (S,AA)	1.6	ID	ID		<1.0	<1.1	<1.0	<1.1
Dibenzo(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.21	2.0 (M); 0.85	ID	NLV	NLV	2.0 (M,AA); 0.31	2.49	ID	ID		<2.0	<2.0	<2.0	<2.0
Fluoranthene	206-44-0	210 (S)	210 (S)	1.6	210 (S)	210 (S)	210 (S)	206	ID	ID		<1.0	<1.1	<1.0	<1.1
Fluorene	86-73-7	880	2,000 (S)	12	2,000 (S)	2,000 (S)	2,000 (S)	1,980	ID	ID		<5.0	<5.0	<5.0	<5.0

Table 2, Summary of Groundwater Analytical Results
203 Water Street
Bay City, Michigan
AKT Peerless Project No. 7059s

Guidesheet Number →		#1	#2	#3	#4	#5	#6	#7	#8	#9					
Parameters*	**Chemical Abstract Service Number**	**Residential Drinking Water Criteria & RBSLs**	**Non-residential Drinking Water Criteria & RBSLs**	**Groundwater Surface Water Interface Criteria & RBSLs**	**Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Groundwater Contact Criteria & RBSLs**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Acute Inhalation Screening Level**	Sample Location	B-4	B-7	B-2	B-3
											Collection Date	7/11/2011	7/11/2011	7/11/2011	7/11/2011
(Refer to detailed laboratory report for method reference data)											Depth	3.0-8.0	3.0-8.0	3.0-8.0	3.0-8.0
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	2.0 (M); 0.022 (S)	ID	NLV	NLV	2.0 (M, AA); 0.022 (S)	0.022	ID	ID		<2.0	<2.0	<2.0	<2.0
2-Methylnaphthalene	91-57-6	260	750	19	25,000 (S)	25,000 (S)	25,000 (S)	24,600	ID	ID		<5.0	<5.0	<5.0	<5.0
Phenanthrene	85-01-8	52	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	1,000 (S)	1,000	ID	ID		<2.0	<2.0	<2.0	<2.0
Pyrene	129-00-0	140 (S)	140 (S)	ID	140 (S)	140 (S)	140 (S)	135	ID	ID		<5.0	<5.0	<5.0	<5.0
Volatiles, VOCs ug/L															
Acetone (I)	67-64-1	730	2,100	1,700	1.0E+9 (D,S)	1.0E+9 (D,S)	3.1E+7	1.0E+9	1.5E+7	1.0E+9 (D)		<50	<50	<50	<50
Acrylonitrile (I)	107-13-1	2.6	11	2.0 (M); 1.2	34,000	1.9E+5	14,000	7.50E+7	6.4E+6	ID		<2.0	<2.0	<2.0	<2.0
Benzene (I)	71-43-2	5.0 (A)	5.0 (A)	200 (X)	5,600	35,000	11,000	1.75E+6	68,000	67,000		<1.0	<1.0	<1.0	<1.0
Bromobenzene (I)	108-86-1	18	50	NA	1.8E+5	3.9E+5	12,000	4.13E+5	ID	ID		<1.0	<1.0	<1.0	<1.0
Bromochloromethane	74-97-5	NC	NC	NC	NC	NC	NC	NC	NC	NC		<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	75-27-4	80 (A,W)	80 (A,W)	ID	4,800	37,000	14,000	6.74E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	80 (A,W)	80 (A,W)	ID	4.7E+5	3.1E+6 (S)	1.4E+5	3.10E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
Bromomethane	74-83-9	10	29	35	4,000	9,000	70,000	1.45E+7	ID	ID		<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (I)	78-93-3	13,000	38,000	2,200	2.4E+8 (S)	2.4E+8 (S)	2.4E+8 (S)	2.40E+8	ID	2.4E+8 (S)		<25	<25	<25	<25
n-Butylbenzene	104-51-8	80	230	ID	ID	ID	5,900	NA	ID	ID		<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	80	230	ID	ID	ID	4,400	NA	ID	ID		<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene (I)	98-06-6	80	230	ID	ID	ID	8,900	NA	ID	ID		<1.0	<1.0	<1.0	<1.0
Carbon disulfide (I,R)	75-15-0	800	2,300	ID	2.5E+5	5.5E+5	1.2E+6 (S)	1.19E+6	13,000	ID		<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	5.0 (A)	5.0 (A)	45 (X)	370	2,400	4,600	7.93E+5	ID	96,000		<1.0	<1.0	<1.0	<1.0
Chlorobenzene (I)	108-90-7	100 (A)	100 (A)	25	2.1E+5	4.7E+5 (S)	86,000	4.72E+5	1.6E+5	ID		<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	430	1,700	1,100 (X)	5.7E+6 (S)	5.7E+6 (S)	4.4E+5	5.74E+6	1.1E+5	ID		<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	80 (A,W)	80 (A,W)	350	28,000	1.8E+5	1.5E+5	7.92E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
Chloromethane (I)	74-87-3	260	1,100	ID	8,600	45,000	4.9E+5	6.34E+6	36,000	2.1E+5		<5.0	<5.0	<5.0	<5.0
o-Chlorotoluene (I)	95-49-8	150	420	ID	2.2E+5	3.7E+5 (S)	44,000	3.73E+5	ID	ID		<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	124-48-1	80 (A,W)	80 (A,W)	ID	14,000	1.1E+5	18,000	2.60E+6	ID	ID		<5.0	<5.0	<5.0	<5.0
Dibromochloropropane	96-12-8	0.2 (A)	0.2 (A)	ID	1,200 (S)	1,200 (S)	390	1,230	NA	ID		<1.0	<1.0	<1.0	<1.0
Dibromomethane	74-95-3	80	230	NA	ID	ID	5.3E+5	1.10E+7	ID	ID		<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	600 (A)	600 (A)	13	1.6E+5 (S)	1.6E+5 (S)	1.6E+5 (S)	1.56E+5	NA	1.6E+5 (S)		<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	6.6	19	28	18,000	41,000	2,000	1.11E+5	ID	ID		<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	75 (A)	75 (A)	17	16,000	74,000 (S)	6,400	73,800	NA	ID		<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	1,700	4,800	ID	2.2E+5	3.0E+5 (S)	3.0E+5 (S)	3.00E+5	ID	ID		<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	880	2,500	740	1.0E+6	2.3E+6	2.4E+6	5.06E+6	3.8E+5	ID		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (I)	107-06-2	5.0 (A)	5.0 (A)	360 (X)	9,600	59,000	19,000	8.52E+6	2.5E+6	ID		<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	156-59-2	70 (A)	70 (A)	620	93,000	2.1E+5	2.0E+5	3.50E+6	5.3E+5	ID		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	100 (A)	100 (A)	1,500 (X)	85,000	2.0E+5	2.2E+5	6.30E+6	2.3E+5	ID		<1.0	<1.0	<1.0	<1.0

Table 2, Summary of Groundwater Analytical Results
203 Water Street
Bay City, Michigan
AKT Peerless Project No. 7059s

Guidesheet Number →		#1	#2	#3	#4	#5	#6	#7	#8	#9					
Parameters*	**Chemical Abstract Service Number**	**Residential Drinking Water Criteria & RBSLs**	**Non-residential Drinking Water Criteria & RBSLs**	**Groundwater Surface Water Interface Criteria & RBSLs**	**Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs**	**Groundwater Contact Criteria & RBSLs**	**Water Solubility**	**Flammability and Explosivity Screening Level**	**Acute Inhalation Screening Level**	Sample Location	B-4	B-7	B-2	B-3
											Collection Date	7/11/2011	7/11/2011	7/11/2011	7/11/2011
**(Refer to detailed laboratory report for method reference data)*											Depth	3.0-8.0	3.0-8.0	3.0-8.0	3.0-8.0
1,1-Dichloroethylene (I)	75-35-4	7.0 (A)	7.0 (A)	130	200	1,300	11,000	2.25E+6	97,000	1.4E+5		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (I)	78-87-5	5.0 (A)	5.0 (A)	230 (X)	16,000	36,000	16,000	2.80E+6	5.5E+5	2.8E+6 (S)		<1.0	<1.0	<1.0	<1.0
Ethylbenzene (I)	100-41-4	74 (E)	74 (E)	18	1.1E+5	1.7E+5 (S)	1.7E+5 (S)	1.69E+5	43,000	1.7E+5 (S)		<1.0	<1.0	<1.0	<1.0
Ethylene dibromide	106-93-4	0.05 (A)	0.05 (A)	5.7 (X)	2,400	15,000	25	4.20E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	1,000	2,900	ID	4.2E+6	8.7E+6	5.2E+6	1.60E+7	NA	ID		<50	<50	<50	<50
Isopropyl benzene	98-82-8	800	2,300	28	56,000 (S)	56,000 (S)	56,000 (S)	56,000	29,000	ID		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	1,800	5,200	ID	2.0E+7 (S)	2.0E+7 (S)	1.3E+7	2.00E+7	ID	2.0E+7 (S)		<50	<50	<50	<50
Methylene chloride	75-09-2	5.0 (A)	5.0 (A)	1,500 (X)	2.2E+5	1.4E+6	2.2E+5	1.70E+7	ID	ID		<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	260	750	19	25,000 (S)	25,000 (S)	25,000 (S)	24,600	ID	ID		<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether (MTBE)	1634-04-4	40 (E)	40 (E)	7,100 (X)	4.7E+7 (S)	4.7E+7 (S)	6.1E+5	4.68E+7	ID	ID		<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	520	1,500	11	31,000 (S)	31,000 (S)	31,000 (S)	31,000	NA	31,000 (S)		<5.0	<5.0	<5.0	<5.0
n-Propylbenzene (I)	103-65-1	80	230	ID	ID	ID	15,000	NA	ID	ID		<1.0	<1.0	<1.0	<1.0
Styrene	100-42-5	100 (A)	100 (A)	80 (X)	1.7E+5	3.1E+5 (S)	9,700	3.10E+5	1.4E+5	3.1E+5 (S)		<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	630-20-6	77	320	ID	15,000	96,000	30,000	1.10E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	8.5	35	78 (X)	12,000	77,000	4,700	2.97E+6	ID	ID		<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	5.0 (A)	5.0 (A)	60 (X)	25,000	1.7E+5	12,000	2.0E+5	ID	2.0E+5 (S)		<1.0	<1.0	<1.0	<1.0
Toluene (I)	108-88-3	790 (E)	790 (E)	270	5.3E+5 (S)	5.3E+5 (S)	5.3E+5 (S)	5.26E+5	61,000	ID		<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	70 (A)	70 (A)	99 (X)	3.0E+5 (S)	3.0E+5 (S)	19,000	3.00E+5	NA	3.0E+5 (S)		<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	71-55-6	200 (A)	200 (A)	89	6.6E+5	1.3E+6 (S)	1.3E+6 (S)	1.33E+6	ID	1.3E+6 (S)		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	5.0 (A)	5.0 (A)	330 (X)	17,000	1.1E+5	21,000	4.42E+6	NA	ID		<1.0	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	5.0 (A)	5.0 (A)	200 (X)	15,000	97,000	22,000	1.10E+6	ID	1.1E+6 (S)		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	75-69-4	2,600	7,300	NA	1.1E+6 (S)	1.1E+6 (S)	1.1E+6 (S)	1.10E+6	ID	1.1E+6 (S)		<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	96-18-4	42	120	NA	8,300	18,000	84,000	1.90E+6	NA	ID		<2.0	<2.0	<2.0	<2.0
1,2,3-Trimethylbenzene	526-73-8	63 (E)	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	55,890	56,000 (S)	ID		<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (I)	95-63-6	63 (E)	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	55,890	56,000 (S)	ID		<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (I)	108-67-8	72 (E)	72 (E)	45	61,000 (S)	61,000 (S)	61,000 (S)	61,150	ID	ID		<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	2.0 (A)	2.0 (A)	13 (X)	1,100	13,000	1,000	2.76E+6	33,000	ID		<1.0	<1.0	<1.0	<1.0
Xylenes (I)	1330-20-7	280 (E)	280 (E)	41	1.9E+5 (S)	1.9E+5 (S)	1.9E+5 (S)	1.86E+5	70,000	1.9E+5 (S)		<3.0	<3.0	<3.0	<3.0

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APPENDIX A

Soil Boring Logs

AKTPEERLESS
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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

B-1

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	6.0 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	NA
		SCREEN MATERIAL:	NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	*GEOLOGIC DESCRIPTION*	MOISTURE	*TEMPORARY WELL DIAGRAM*
							CONCRETE: Crushed, Gravel		
					CL	Brown	SANDY CLAY: Gravel, Moist		
02			0						
					SW	Black	SAND: Medium, Moist		
04			0						
06			0		CL	Brown	CLAY: Saturated	▽	
					SW	Brown	SAND: Medium, Saturated		
08			0				END OF BORING @8.0 FEET BGS		
10									
12									

▽ = TOP OF GROUNDWATER BGS = BELOW GROUND SURFACE N/A = NOT APPLICABLE

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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

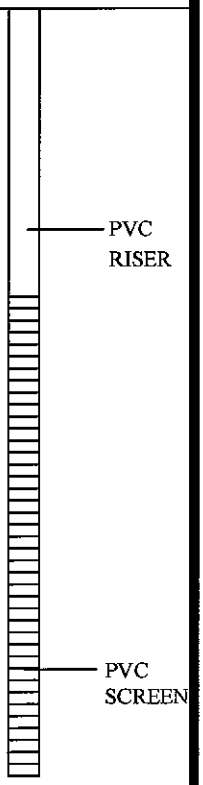
B-2 TMW

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	5.5 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	3.0-8.0 FEET BGS
		SCREEN MATERIAL:	1" PVC

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	*GEOLOGIC DESCRIPTION*	MOISTURE
					SW	Brown	SAND: Coarse, Gravel, Moist	
					SW	Brown	SAND: Fine, Moist	
02			0					
					SW	Black	SAND: Medium, Wood Debris @7.0-8.0' bgs., Moist-Saturated @5.5' bgs.	▽
04			0					
06			0					
08			0				END OF BORING @8.0 FEET BGS	
10								
12								

TEMPORARY WELL DIAGRAM



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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

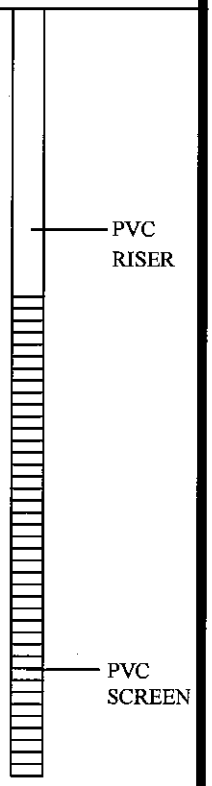
B-3 TMW

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	6.0 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	3.0-8.0 FEET BGS
		SCREEN MATERIAL:	1" PVC

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE
							CONCRETE: Crushed, Gravel	
					CL	Brown	SANDY CLAY: Moist	
02			0					
					SW	Black	SAND: Medium, Moist	
04			0					
					SW	Brown	SAND: Coarse, Moist-Saturated @6.0' bgs.	
06			0					▽
					CL	Gray	CLAY: Saturated	
08			0				END OF BORING @8.0 FEET BGS	
10								
12								

TEMPORARY WELL DIAGRAM



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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

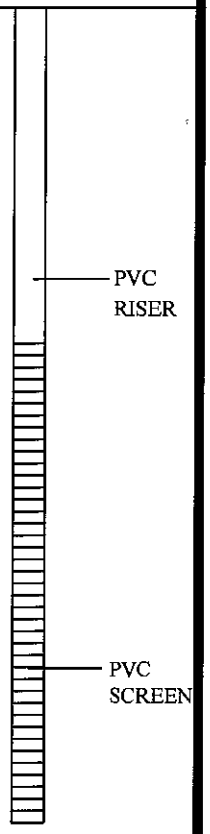
B-4 TMW

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.5 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	7.0 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	3.5-8.5 FEET BGS
		SCREEN MATERIAL:	1" PVC

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	*GEOLOGIC DESCRIPTION*	MOISTURE
						Black	CONRETE: Crushed	
					SW	Black	SAND: Coarse, Gravel, Trace Coal, Moist	
02			0					
04			0		GW		GRAVEL	
06			0					▽
08			0					
							END OF BORING @8.5 FEET BGS	
10								
12								

TEMPORARY WELL DIAGRAM



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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

B-5

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	1.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	NA
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	NA
		SCREEN MATERIAL:	NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	*GEOLOGIC DESCRIPTION*	MOISTURE	*TEMPORARY WELL DIAGRAM*
					SW	Gray	SAND: Fine, Gravel, Moist		
							END OF BORING @1.0 FEET BGS		
02									
04									
06									
08									
10									
12									

▽ = TOP OF GROUNDWATER BGS = BELOW GROUND SURFACE N/A = NOT APPLICABLE

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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

B-6

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	7.0 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	NA
		SCREEN MATERIAL:	NA

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	*GEOLOGIC DESCRIPTION*	MOISTURE	*TEMPORARY WELL DIAGRAM*
02			0		SW	Black	SAND: Coarse, Gravel, Moist		
04			0		SW	Black	SAND: Coarse-Medium, Trace Coal, Moist		
06			0		CL	Gray	SANDY CLAY: Moist-Saturated @7.0' bgs.	▽	
08			0				END OF BORING @8.0 FEET BGS		
10									
12									

▽ = TOP OF GROUNDWATER BGS = BELOW GROUND SURFACE N/A = NOT APPLICABLE

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BORING LOG

203 NORTH WATER STREET
BAY CITY, MICHIGAN
PROJECT NUMBER : 7059s-2-20

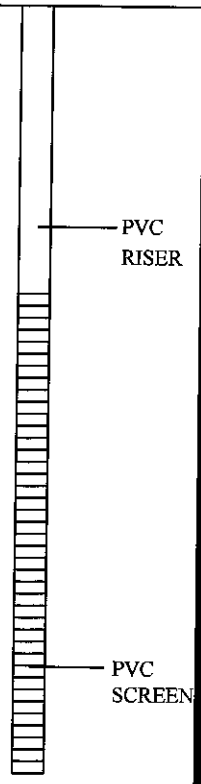
B-7 TMW

DRAWN BY: OGO
DATE: 07-13-11

DRILLING COMPANY:	AKT PEERLESS	WEATHER:	75°, CLOUDY
TECHNICIAN:	JEFF CARR/PAT HALL	BORING DEPTH:	8.0 FEET BGS
DATE DRILLED:	07-11-11	DEPTH TO GW:	6.0 FEET BGS
DRILLING METHOD:	GEOPROBE	SCREEN INTERVAL:	3.0-8.0 FEET BGS
		SCREEN MATERIAL:	1" PVC

DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	GRAPHIC LOG	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE
					SW	Black	SAND: Coarse, Conrete (crushed), Moist	
02			0					
04			0					
					SW	Black	SAND: Coarse, Moist	
06			1.0					▽
					SW	Black	SAND: Fine-Medium, Saturated	
08			0					
							END OF BORING @8.0 FEET BGS	
10								
12								

TEMPORARY WELL DIAGRAM



▽ = TOP OF GROUNDWATER BGS = BELOW GROUND SURFACE N/A = NOT APPLICABLE

AKTPEERLESS
environmental & energy services

APPENDIX B

Laboratory Analytical Report

Friday, July 15, 2011

Fibertec Project Number:	45379
Project Identification:	Water St. (2) Bay City/7059s
Submittal Date:	07/12/2011

Mr. Sean Robinson
AKT Peerless Environ. Svcs, Inc. - Saginaw
214 South Janes Ave.
Saginaw, MI 48607

Dear Mr. Robinson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

All water voas contain air bubbles.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-001

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**01**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-001A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1600**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**45000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**210**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**11000**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**9200**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**8400**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**380**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**32000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-001A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-001A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-001** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**01**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-001** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	300	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**01**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-001** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-001A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
3. Anthracene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
4. Benzo(a)anthracene (SIM)	**790**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
5. Benzo(a)pyrene (SIM)	**850**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**1400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
7. Benzo(ghi)perylene (SIM)	**330**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	**460**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
9. Chrysene (SIM)	**830**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
11. Fluoranthene (SIM)	**2500**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	**400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**360**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
15. Phenanthrene (SIM)	**1700**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B
16. Pyrene (SIM)	**1900**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-002

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**02**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**13**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**6800**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**100000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**310**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**9500**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**65000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**120000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**520**		µg/kg	200	10	07/14/11	PT11G14D	07/15/11	T211G15A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**110000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-002A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**80**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-002A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/13/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-002** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**02**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-002** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	490	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-1 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**02**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-002** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-002A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	**580**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	**9400**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	**12000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**23000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	**7500**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	**6400**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	**12000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	**2300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	**15000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	**8700**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**3200**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	**12000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-003

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**03**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**35**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**9800**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**170000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**580**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**8700**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**110000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**170000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**1000**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	**300**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**220000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-003A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**140**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-003A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-003** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**03**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-003** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	490	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**03**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-003** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-003A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
2. Acenaphthylene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
3. Anthracene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
5. Benzo(a)pyrene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
6. Benzo(b)fluoranthene	**480**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
9. Chrysene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
11. Fluoranthene	**680**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
12. Fluorene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
14. 2-Methylnaphthalene	**490**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
15. Phenanthrene	**660**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
16. Pyrene	**510**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-004

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**04**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-004A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**30**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-004A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**7200**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**59000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**630**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**5600**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**43000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**65000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**1300**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	**130**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**180000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-004A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**58**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-004A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-004** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**04**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-004** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	1200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3 (3-5')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**04**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-004** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-004A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**860**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	**1100**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	**2900**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	**5300**		µg/kg	380	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	**18000**		µg/kg	380	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**21000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	**6800**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	**5700**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	**4300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	**2100**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	**13000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	**1400**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	**8400**		µg/kg	380	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**860**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**11000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	**16000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-005

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4 (1-3')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**05**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-005A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**9.7**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-005A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2800**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**360000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**150**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**7200**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**6200**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**9800**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**460**		µg/kg	200	10	07/14/11	PT11G14D	07/15/11	T211G15A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**20000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-005A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-005A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-005** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4 (1-3')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**05**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-005** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	440	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4 (1-3')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**05**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-005** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**93**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-005A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**410**		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	**650**		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**920**		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**660**		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	**510**		µg/kg	330	1.0	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-006

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-5 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**06**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**10**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-006A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**4900**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**53000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**1100**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**7600**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**45000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**110000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**610**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	**110**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**260000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-006A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**130**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-006A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-006** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-5 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**06**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-006** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	730	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-5 (0-2')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**06**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-006** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	U		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-006A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	**480**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	**2200**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	**2300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**3500**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	**1200**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	**1300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	**2100**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	**5600**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	**1300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**3100**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	**4400**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-007

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-6 (4-6')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**07**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**8.6**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-007A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3400**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**31000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**55**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**4200**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**12000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**7400**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**750**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**15000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-007A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**50**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-007A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-007** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	**130**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-6 (4-6')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**07**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-007** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	**150**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	420	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	**580**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-6 (4-6')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**07**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-007** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**960**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	**150**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	**270**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	**1100**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-007A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**4100**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**1300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-008

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7 (5-7')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**08**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-008A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-008A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**24000**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**29000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**130**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**5000**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**46000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**5500**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**7700**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**23000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-008A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-008A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-008** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7 (5-7')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**08**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-008** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	320	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7 (5-7')**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**08**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-008** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**220**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	**370**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-008A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**5000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**1500**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-009

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**DUP-1**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**09**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-009A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-009A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**8400**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**61000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**60**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**6100**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**41000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**6000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**1600**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	U		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**11000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-009A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-009A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1221	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
3. Aroclor-1232	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
4. Aroclor-1242	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
5. Aroclor-1248	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
6. Aroclor-1254	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
7. Aroclor-1260	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
8. Aroclor-1262 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
9. Aroclor-1268 (NN)	U		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-009** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	**180**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**DUP-1**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**09**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-009** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
6. Bromodichloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	U		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	U		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	**74**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	**210**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	U		µg/kg	360	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	U		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	**900**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**DUP-1**	Chain of Custody:	**88762**
Client Project Name:	**Water St. (2)**	Sample No:	**09**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-009** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**1300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
53. Trichloroethene	U		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	**270**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	**460**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	**120**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	U		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	**1700**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-009A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
3. Anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
4. Benzo(a)anthracene (SIM)	**620**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
6. Benzo(b)fluoranthene (SIM)	**450**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
9. Chrysene (SIM)	**440**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
11. Fluoranthene (SIM)	**760**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
12. Fluorene (SIM)	**420**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
14. 2-Methylnaphthalene (SIM)	**11000**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
15. Phenanthrene (SIM)	**4300**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B
16. Pyrene (SIM)	**760**		µg/kg	330	20	07/13/11	PS11G13E	07/13/11	S711G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-011

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MS**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**11**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-011A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**35**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-011A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**18000**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**220000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**10000**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**23000**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**97000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**200000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**10000**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	**9400**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**200000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-011A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**340**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-011A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	**1500**		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1260	**1500**		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-011** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	**8400**		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	**8700**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	**8100**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	**7100**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	**7500**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
6. Bromodichloromethane	**7800**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	**8900**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	**10000**		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	**8600**		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	**7900**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MS**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**11**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-011** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
13. Carbon Disulfide	**9800**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	**8400**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	**7500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	**8100**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	**7300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	**8200**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	**7200**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	**9000**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	**7800**		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	**7800**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	**7500**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	**7200**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	**6900**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	**7100**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	**7500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	**14000**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	**8200**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	**8600**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	**8500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	**8500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	**15000**		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	**9200**		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	**8000**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	**8900**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	**7500**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	**8900**		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	**16000**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	**7400**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	**7500**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	**8200**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
46. 1,1,1,2-Tetrachloroethane	**8500**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	**7600**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	**8000**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**7900**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	**7100**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	**7500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	**7900**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MS**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**11**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-011** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
53. Trichloroethene	**8300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	**10000**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	**7400**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	**7400**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	**7700**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	**7800**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	**8700**		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	**23000**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-011A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	**6200**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
2. Acenaphthylene	**6100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
3. Anthracene	**6900**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
4. Benzo(a)anthracene	**7100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
5. Benzo(a)pyrene	**7500**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
6. Benzo(b)fluoranthene	**9700**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
7. Benzo(ghi)perylene	**1900**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
8. Benzo(k)fluoranthene	**9100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
9. Chrysene	**7100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
10. Dibenzo(a,h)anthracene	**2800**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
11. Fluoranthene	**8900**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
12. Fluorene	**7200**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
13. Indeno(1,2,3-cd)pyrene	**2700**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
14. 2-Methylnaphthalene	**6500**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
15. Phenanthrene	**7900**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
16. Pyrene	**8600**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-012

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MSD**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**12**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 45379-012A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**34**		%	0.1	1.0	07/13/11	MC110713	07/14/11	MC110713

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 45379-012A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**18000**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
2. Barium	**240000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
3. Cadmium	**11000**		µg/kg	50	20	07/14/11	PT11G14D	07/14/11	T211G14A
4. Chromium	**25000**		µg/kg	500	20	07/14/11	PT11G14D	07/14/11	T211G14A
5. Copper	**110000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
6. Lead	**200000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A
7. Selenium	**11000**		µg/kg	200	20	07/14/11	PT11G14D	07/14/11	T211G14A
8. Silver	**10000**		µg/kg	100	20	07/14/11	PT11G14D	07/14/11	T211G14A
9. Zinc	**260000**		µg/kg	1000	20	07/14/11	PT11G14D	07/14/11	T211G14A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 45379-012A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**570**		µg/kg	50	10	07/13/11	PM11G13C	07/15/11	M411G15A

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 45379-012A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	**1400**		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B
2. Aroclor-1260	**1400**		µg/kg	330	5.0	07/13/11	PS11G13E	07/15/11	SA11G14B

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	**8700**		µg/kg	1000	1.0	07/13/11	V911G13A	07/13/11	V911G13A
2. Acrylonitrile	**8700**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
3. Benzene	**8300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
4. Bromobenzene	**7300**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
5. Bromochloromethane	**7400**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
6. Bromodichloromethane	**8000**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
7. Bromoform	**9200**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
8. Bromomethane	**12000**		µg/kg	200	1.0	07/13/11	V911G13A	07/13/11	V911G13A
9. 2-Butanone	**9200**		µg/kg	750	1.0	07/13/11	V911G13A	07/13/11	V911G13A
10. n-Butylbenzene	**8000**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
11. sec-Butylbenzene	**7900**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
12. tert-Butylbenzene	**8200**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MSD**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**12**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
13. Carbon Disulfide	**11000**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
14. Carbon Tetrachloride	**8600**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
15. Chlorobenzene	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
16. Chloroethane	**8300**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
17. Chloroform	**7300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
18. Chloromethane	**8600**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
19. 2-Chlorotoluene	**7400**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
20. Dibromochloromethane	**9400**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
21. 1,2-Dibromo-3-chloropropane (NN)	**5600**		µg/kg	10	1.0	07/13/11	V911G13A	07/13/11	V911G13A
22. Dibromomethane	**8100**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
23. 1,2-Dichlorobenzene	**7800**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
24. 1,3-Dichlorobenzene	**7600**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
25. 1,4-Dichlorobenzene	**7100**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
26. Dichlorodifluoromethane	**7300**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
27. 1,1-Dichloroethane	**7700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
28. 1,2-Dichloroethane	**14000**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
29. 1,1-Dichloroethene	**9500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
30. cis-1,2-Dichloroethene	**7800**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
31. trans-1,2-Dichloroethene	**7800**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
32. 1,2-Dichloropropane	**8800**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
33. cis-1,3-Dichloropropene	**8700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
34. trans-1,3-Dichloropropene	**8700**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
35. Ethylbenzene	**7800**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
36. Ethylene Dibromide	**16000**		µg/kg	20	1.0	07/13/11	V911G13A	07/13/11	V911G13A
37. 2-Hexanone	**9200**		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
38. Isopropylbenzene	**8200**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
39. Methyl Iodide	**9100**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
40. Methylene Chloride	**7600**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A
41. 4-Methyl-2-pentanone	**9100**		µg/kg	2500	1.0	07/13/11	V911G13A	07/13/11	V911G13A
42. MTBE	**16000**		µg/kg	250	1.0	07/13/11	V911G13A	07/13/11	V911G13A
43. Naphthalene	**7900**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
44. n-Propylbenzene	**7800**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
45. Styrene	**8400**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
46. 1,1,1,2-Tetrachloroethane	**8700**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
47. 1,1,2,2-Tetrachloroethane	**7800**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
48. Tetrachloroethene	**8300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
49. Toluene	**8100**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
50. 1,2,4-Trichlorobenzene	**7600**		µg/kg	330	1.0	07/13/11	V911G13A	07/13/11	V911G13A
51. 1,1,1-Trichloroethane	**7500**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
52. 1,1,2-Trichloroethane	**8100**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2 MSD**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**12**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 45379-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
53. Trichloroethene	**8300**		µg/kg	50	1.0	07/13/11	V911G13A	07/13/11	V911G13A
54. Trichlorofluoromethane	**14000**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
55. 1,2,3-Trichloropropane	**7600**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
56. 1,2,3-Trimethylbenzene (NN)	**7600**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
57. 1,2,4-Trimethylbenzene	**7900**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
58. 1,3,5-Trimethylbenzene	**8100**		µg/kg	100	1.0	07/13/11	V911G13A	07/13/11	V911G13A
59. Vinyl Chloride	**8800**		µg/kg	40	1.0	07/13/11	V911G13A	07/13/11	V911G13A
60. Xylenes	**23000**		µg/kg	150	1.0	07/13/11	V911G13A	07/13/11	V911G13A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 45379-012A** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	**5400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
2. Acenaphthylene	**5400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
3. Anthracene	**6100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
4. Benzo(a)anthracene	**6300**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
5. Benzo(a)pyrene	**6500**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
6. Benzo(b)fluoranthene	**8300**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
7. Benzo(ghi)perylene	**1400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
8. Benzo(k)fluoranthene	**7800**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
9. Chrysene	**6300**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
10. Dibenzo(a,h)anthracene	**2400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
11. Fluoranthene	**7600**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
12. Fluorene	**6400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
13. Indeno(1,2,3-cd)pyrene	**2200**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
14. 2-Methylnaphthalene	**5800**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
15. Phenanthrene	**7100**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A
16. Pyrene	**7400**		µg/kg	330	1.0	07/13/11	PS11G13E	07/14/11	S511G14A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**13**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-013A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	**280**		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	**13**		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.34	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-013A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Polychlorinated Biphenyls (PCBs) (EPA 3535A/EPA 8082A) **Aliquot ID: 45379-013B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
2. Aroclor-1221	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
3. Aroclor-1232	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
4. Aroclor-1242	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
5. Aroclor-1248	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
6. Aroclor-1254	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
7. Aroclor-1260	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-013** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**13**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-013** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
49. Toluene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-013

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-4**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**13**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-013** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-013B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
2. Acenaphthylene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
3. Anthracene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
4. Benzo(a)anthracene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
5. Benzo(a)pyrene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
6. Benzo(b)fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
7. Benzo(ghi)perylene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
8. Benzo(k)fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
9. Chrysene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
10. Dibenzo(a,h)anthracene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
11. Fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
12. Fluorene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
13. Indeno(1,2,3-cd)pyrene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
14. 2-Methylnaphthalene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
15. Phenanthrene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
16. Pyrene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-014

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**14**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-014A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**110**		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	**440**		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	U		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.26	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-014A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-014** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**14**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-014** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
49. Toluene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-014B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-014

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-7**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**14**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-014B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
2. Acenaphthylene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
3. Anthracene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
4. Benzo(a)anthracene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
5. Benzo(a)pyrene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
6. Benzo(b)fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
7. Benzo(ghi)perylene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
8. Benzo(k)fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
9. Chrysene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
10. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
11. Fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
12. Fluorene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
13. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
14. 2-Methylnaphthalene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
15. Phenanthrene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
16. Pyrene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-015

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**15**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-015A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	**140**		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	U		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.20	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-015A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Polychlorinated Biphenyls (PCBs) (EPA 3535A/EPA 8082A) **Aliquot ID: 45379-015B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
2. Aroclor-1221	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
3. Aroclor-1232	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
4. Aroclor-1242	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
5. Aroclor-1248	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
6. Aroclor-1254	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
7. Aroclor-1260	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/L	0.25	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-015** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**15**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-015** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
49. Toluene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**15**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-015** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-015B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
2. Acenaphthylene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
3. Anthracene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
4. Benzo(a)anthracene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
5. Benzo(a)pyrene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
6. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
7. Benzo(ghi)perylene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
8. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
9. Chrysene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
10. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
11. Fluoranthene	U		µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
12. Fluorene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
13. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
14. 2-Methylnaphthalene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
15. Phenanthrene	U		µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B
16. Pyrene	U		µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G13B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-016

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**16**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-016A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**5.4**		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	**150**		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	**5.7**		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.20	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-016A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Polychlorinated Biphenyls (PCBs) (EPA 3535A/EPA 8082A) **Aliquot ID: 45379-016B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
2. Aroclor-1221	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
3. Aroclor-1232	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
4. Aroclor-1242	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
5. Aroclor-1248	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
6. Aroclor-1254	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
7. Aroclor-1260	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/L	0.20	1.0	07/13/11	PS11G13C	07/14/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-016** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-016

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**16**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-016** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
49. Toluene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**B-3**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**16**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-016** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/13/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-016B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
2. Acenaphthylene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
3. Anthracene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
4. Benzo(a)anthracene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
5. Benzo(a)pyrene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
6. Benzo(b)fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
7. Benzo(ghi)perylene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
8. Benzo(k)fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
9. Chrysene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
10. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
11. Fluoranthene	U		µg/L	1.1	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
12. Fluorene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
13. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
14. 2-Methylnaphthalene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
15. Phenanthrene	U		µg/L	2.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B
16. Pyrene	U		µg/L	5.0	1.1	07/13/11	PS11G13D	07/14/11	S511G13B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FD-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**17**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-017A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	**260**		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	**10**		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.20	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-017A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Polychlorinated Biphenyls (PCBs) (EPA 3535A/EPA 8082A) **Aliquot ID: 45379-017B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
2. Aroclor-1221	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
3. Aroclor-1232	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
4. Aroclor-1242	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
5. Aroclor-1248	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
6. Aroclor-1254	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
7. Aroclor-1260	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/L	0.26	1.3	07/13/11	PS11G13C	07/14/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-017** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
8. Bromomethane	U		µg/L	11	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FD-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**17**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-017** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
18. Chloromethane	U		µg/L	6.3	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
39. Methyl Iodide	U		µg/L	7.7	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
49. Toluene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-017

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FD-2**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**17**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-017** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-017B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
2. Acenaphthylene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
3. Anthracene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
4. Benzo(a)anthracene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
5. Benzo(a)pyrene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
6. Benzo(b)fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
7. Benzo(ghi)perylene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
8. Benzo(k)fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
9. Chrysene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
10. Dibenzo(a,h)anthracene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
11. Fluoranthene	U	J,G-	µg/L	1.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
12. Fluorene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
13. Indeno(1,2,3-cd)pyrene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
14. 2-Methylnaphthalene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
15. Phenanthrene	U	J,G-	µg/L	2.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A
16. Pyrene	U	J,G-	µg/L	5.0	1.0	07/13/11	PS11G13D	07/14/11	S511G14A

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**18**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-018** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-018

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**18**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-018** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
41. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
42. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
43. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
44. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
45. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
46. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
47. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
48. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
49. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
50. Toluene	**1.3**		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
51. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
52. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
53. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
54. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
55. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
56. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
58. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
59. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
60. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
61. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FIELD EQUIP BLANK**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**19**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Michigan 10 Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 45379-019A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
2. Barium	U		µg/L	100	10	07/13/11	PT11G13B	07/14/11	T211G14A
3. Cadmium	U		µg/L	1.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
4. Chromium	U		µg/L	10	10	07/13/11	PT11G13B	07/14/11	T211G14A
5. Copper	U		µg/L	4.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
6. Lead	U		µg/L	3.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
7. Selenium	U		µg/L	5.0	10	07/13/11	PT11G13B	07/14/11	T211G14A
8. Silver	U		µg/L	0.20	10	07/13/11	PT11G13B	07/14/11	T211G14A
9. Zinc	U		µg/L	50	10	07/13/11	PT11G13B	07/14/11	T211G14A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 45379-019A** **Matrix: Ground Water** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	07/14/11	PM11G14A	07/14/11	M411G14A

Polychlorinated Biphenyls (PCBs) (EPA 3535A/EPA 8082A) **Aliquot ID: 45379-019B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Aroclor-1016	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
2. Aroclor-1221	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
3. Aroclor-1232	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
4. Aroclor-1242	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
5. Aroclor-1248	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
6. Aroclor-1254	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
7. Aroclor-1260	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
8. Aroclor-1262 (NN)	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B
9. Aroclor-1268 (NN)	U		µg/L	0.23	1.2	07/13/11	PS11G13C	07/14/11	SA11G13B

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-019** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
2. Acrylonitrile	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
3. Benzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
4. Bromobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
5. Bromochloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
6. Bromodichloromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
7. Bromoform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
8. Bromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
9. 2-Butanone	U		µg/L	25	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
10. n-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Analytical Laboratory Report
Laboratory Project Number: 45379
Laboratory Sample Number: 45379-019

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FIELD EQUIP BLANK**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**19**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-019** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
11. sec-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
13. Carbon Disulfide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
15. Chlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
16. Chloroethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
17. Chloroform	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
18. Chloromethane	U		µg/L	5.0	1.0	07/13/11	VB11G13B	07/13/11	VB11G13B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
20. Dibromochloromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
22. Dibromomethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
35. Ethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
36. Ethylene Dibromide	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
37. 2-Hexanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
38. Isopropylbenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
39. Methyl Iodide	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
40. Methylene Chloride	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
42. MTBE	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
43. Naphthalene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
44. n-Propylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
45. Styrene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
48. Tetrachloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
49. Toluene	**1.2**		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Client Identification:	**AKT Peerless Environ. Svcs, Inc. - Saginaw**	Sample Description:	**FIELD EQUIP BLANK**	Chain of Custody:	**88763**
Client Project Name:	**Water St. (2)**	Sample No:	**19**	Collect Date:	**07/11/11**
Client Project No:	**7059s**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 45379-019** **Matrix: Ground Water** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
53. Trichloroethene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
55. 1,2,3-Trichloropropane	U		µg/L	2.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
59. Vinyl Chloride	U		µg/L	1.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B
60. Xylenes	U		µg/L	3.0	1.0	07/12/11	VB11G12B	07/12/11	VB11G12B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 45379-019B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
2. Acenaphthylene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
3. Anthracene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
4. Benzo(a)anthracene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
5. Benzo(a)pyrene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
6. Benzo(b)fluoranthene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
7. Benzo(ghi)perylene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
8. Benzo(k)fluoranthene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
9. Chrysene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
10. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
11. Fluoranthene	U		µg/L	1.2	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
12. Fluorene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
13. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
14. 2-Methylnaphthalene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
15. Phenanthrene	U		µg/L	2.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A
16. Pyrene	U		µg/L	5.0	1.2	07/13/11	PS11G13D	07/14/11	S511G14A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

G- : Recovery of the associated Surrogate Compound exceeds the lower control limit. Results may be biased low.

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

AKTPEERLESS
environmental & energy services

APPENDIX C

Geophysical Survey Report

Geophysical Imaging, Inc.
3765 Timber Valley Drive
Maumee, OH 43537
Phone/fax: (419) 868-2902

July 14, 2011

GII Project No. 11-563A

Mr. Sean Robinson, CHMM
Project Manager
AKT Peerless Environmental Services
22725 Orchard Lake Road
Farmington, Michigan 48336

Geophysical Survey Report
202 Saginaw Street
Bay City, Michigan

Dear Mr. Robinson:

This letter report summarizes the results and interpretations of the geophysical survey performed for AKT Peerless Environmental Services (AKT) by Geophysical Imaging, Inc. (GII) at the above-referenced site. The purpose of the survey was to detect if abandoned underground storage tanks (USTs) are present at the site.

Project Background

According to AKT, USTs was historically present at the site. The status of the USTs is unknown.

Field Activities and Data Processing

On May 17, 19, 20, 21, 22, 23, 24, 26, 27, and July 9, 2011, a combined electromagnetic induction (EM) and ground-penetrating radar (GPR) survey was conducted by GII at the site in areas designated by AKT. Figure 1 depicts the approximate areas surveyed and the general site features. The EM survey was performed in "continuous survey" mode along 5-foot spaced transects. GII used a GSSI EMP-400 multi-frequency EM profiler with integrated GPS. Two EM exploration frequencies (9,000 Hz and 12,000 Hz) were selected for the site. Prior to the EM survey, field, operator, and zero in-phase calibrations were performed at the site. In "continuous survey" mode, data are acquired at a fixed time interval while the operator walks along a survey line at a steady pace. Both in-phase (metal sensitive) and quadrature (terrain conductivity) measurements were acquired during the EM survey.

These measurements were automatically stored in a wireless data logger, and later downloaded to a computer for subsequent processing. Two software packages were utilized to define suspect areas, MagMap (supplied by E.G. & G. Geometrics) and SURFER (developed by Golden Software). Selected EM measurement contour maps are presented on Figures 2 and 3.

The GPR survey was performed along 5-foot spaced profiles. GII used a GSSI SIR-3000 GPR system with a 400-megahertz (MHz) dipole antenna mounted on a wheeled cart to scan the survey area. Several test scans were completed to observe the overall GPR responses to setup survey parameters prior to the GPR survey. A survey wheel was used to acquire distance-based data at the density of 18 scans per foot. Anomalous reflective objects/structures were noted and marked on the ground surface during the data acquisition. Additional linescans were performed to better understand anomalous targets. The GPR data were automatically stored in a data logger, and later downloaded to a computer for subsequent processing. The data processing consisted of Time-Zero Adjustment (time zero of the vertical scale aligned with the surface reflection) and Background Removal (horizontal banding) to the GPR scans. Targeted GPR linescans are presented on Figures 4, 5, and 6.

Results and Interpretations

The EM survey identified a strong EM in-phase ('metal') anomaly located at the northern portion of the survey grid. Two targeted GPR linescans (Linescans J and K) were performed in this anomaly area. Two hyperbolic reflection responses were detected on GPR scans. The shape, strength and ring-down of these reflections are similar to the GPR response that is often observed over cylindrical-shaped steel objects such as USTs, large diameter metal pipes or cylindrical-shaped metal containers. Based on the EM and GPR data, this anomaly area was interpreted to represent two possible USTs. The EM survey identified a strong EM 'metal' anomaly located at the northeastern portion of the survey grid. One targeted GPR linescan (Linescan L) was performed in this anomaly area. Based on the EM and GPR data, this anomaly area was interpreted to represent possible metal debris fill. The EM survey identified two small areas of strong EM 'metal' anomaly located at the eastern central portion of the survey grid. Two targeted GPR linescans (Linescans N and O) were performed in these anomaly areas. Based on the EM and GPR data, these anomaly areas were interpreted to represent possible buried metal debris. The EM survey identified a large area of strong EM 'metal' anomaly located at the central portion of the site. Two targeted GPR linescans (Linescans Q and R) were performed in this anomaly area. Based on the EM and GPR data, this anomaly area was interpreted to represent possible former foundation filled with metal debris. The EM survey identified three small areas of strong EM 'metal' anomaly located at the southern portion of the site. Six targeted GPR linescans (Linescans B, C, F, G, V, and W) were performed in these anomaly areas. Based on the EM and GPR data, these anomaly areas were interpreted to represent possible buried metal debris/rebar concrete. The EM survey identified a large area of strong EM

'metal' anomaly located at the southwestern portion of the site. Four targeted GPR linescans (Linescans D, E, T, and U) were performed in this anomaly area. Based on the EM and GPR data, this anomaly area was interpreted to represent possible deep buried metal debris. Other strong EM 'metal' anomalies identified during the survey were most likely associated with the known aboveground interference, such as train car, truck, railroad tracks, dumpster, former foundation pad, and surface metal debris, etc.

Survey Methods and Limitations

The EM operates by driving a transmitter coil with an AC current at audio frequencies to generate a sinusoidal time-varying magnetic field. A receiver coil is positioned on or near the surface of the earth some distance away from the transmitter coil. The transmitted time-varying magnetic field generated by the transmitter coil induces secondary currents to flow in the subsurface, which in turn generate a secondary (induced) magnetic field. Both the induced secondary field, along with the primary field, is detected and recorded at the receiver coil.

The EM instruments contain two sets of coils that are located within opposite sides of the tool. One set of coil is used to transmit a primary magnetic field, which generates electrical current in the ground. The created current then generates a secondary magnetic field, which is sensed by the coils in the receiver end of the instrument. Data is then collected on a control unit indicating the conductivity of the earth. The magnitude of the secondary field is broken into two orthogonal components. The two components of the secondary magnetic field are in-phase (real component) and the quadrature or out-of-phase (imaginary component). For instruments operating within the Low Induction Number (LIN) approximation, the magnitude of the quadrature component of the secondary field is linearly proportional to the apparent conductivity. The in-phase measurement is most sensitive to buried metallic objects and can be used locate buried steel reinforced structures, UST, large utility pipes, and other metallic targets. In the absence of a highly conductive material (e.g. metallic targets) in the subsurface, the magnitude of the in-phase component is dependant on the magnetic susceptibility of the subsurface. The EMP-400 allows multiple frequency measurements at each survey station. The depth of exploration depends on the operating frequencies, target size and shape, and host-target conductivity. Site conditions that can limit, even preclude EM data interpretation include: urban or developed areas, thunderstorms and nearby metallic objects at or above the ground surface such as parked vehicles near the survey stations, rebar concrete, metal siding, overhead power lines, metal fence/guard rail, and manhole covers, etc. Areas of a site that may be difficult or impossible to survey include: steep slopes, standing water areas, overgrown vegetation areas, and obstructed areas.

GPR operates by transmitting pulses of ultra high frequency radio waves (microwave electromagnetic energy) down into the ground through a transducer or antenna. When the transmitted signal enters the ground, it contacts objects or subsurface strata with

different electrical conductivities and dielectric constants. Part of the ground penetrating radar waves reflect off of the object or interface; while the rest of the waves pass through to the next interface. The reflected signals return to the antenna, pass through the antenna, and are received by the digital control unit. The control unit registers the reflections against two-way travel time in nanoseconds (ns) and then amplifies the signals. The output signal voltage peaks are plotted on the GPR profile as different color bands by the digital control unit.

GPR waves with 400 MHz frequency typically can reach depths up to 12 feet below ground surface (bgs) in low conductivity materials such as dry sand or granite. Clays, shale, and other high conductivity materials or materials having high moisture, may attenuate or absorb GPR signals, greatly decreasing the depth of penetration to 3 feet bgs or less. Other site conditions that can limit even preclude GPR data acquisition and interpretation include: surface obstructions, uneven ground surface, standing water, cellular tower, rebar concrete, small or shallow buried objects, and over-grown vegetation, etc.

Conclusions

This geophysical survey has identified nine anomalies, one of which may represent two buried USTs. The geophysical results presented herein are interpreted. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area(s) is contained herein. If uncertainties exist regarding the presence of geophysical anomalies, test pit excavations should be conducted to explore the actual subsurface conditions. No interpretation of subsurface conditions can be made for areas not surveyed or paved with rebar concrete. Please note that the survey data reflect site conditions on the day of the field survey.

GII greatly appreciates this opportunity to provide AKT with our geophysical survey service. If you have any questions, please contact me at (419) 868-2902.

Sincerely,

Geophysical Imaging, Inc.

Ming He
President/Geophysicist

Attachments
Figures 1 – 6

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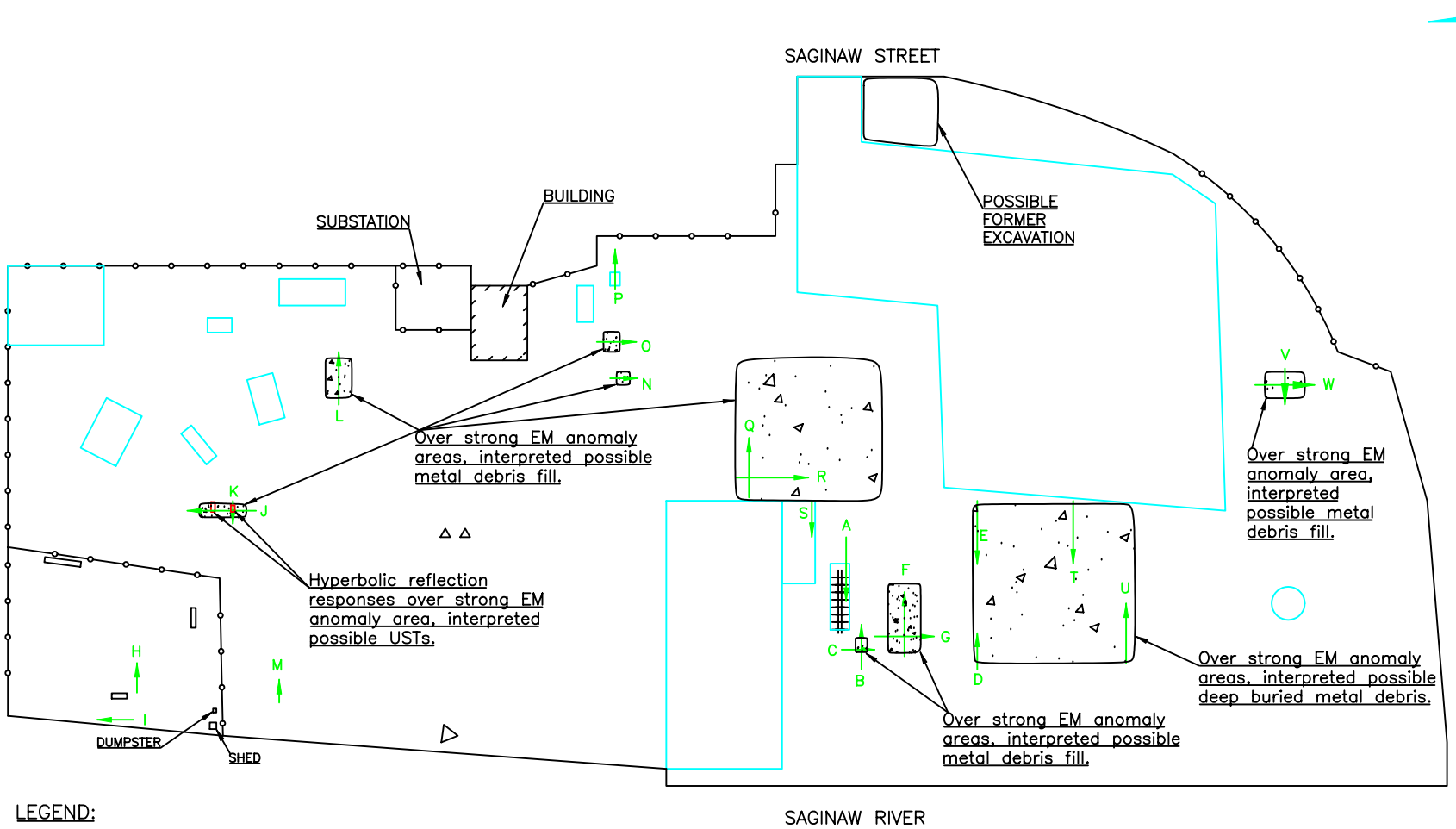


LEGEND:

- REBAR CONCRETE/FOUNDATION
- FENCE
- TRACKS
- TOWER
- TRUCK/TRAIN CAR

APPROXIMATE SCALE – FEET

0 250 500

FIGURE 1
SURVEY DIAGRAM WITH
GEOPHYSICAL INTERPRETATIONS

202 SAGINAW STREET
BAY CITY, MICHIGAN

Client
AKT PEERLESS ENVIRONMENTAL SERVICES
SAGINAW, MICHIGAN

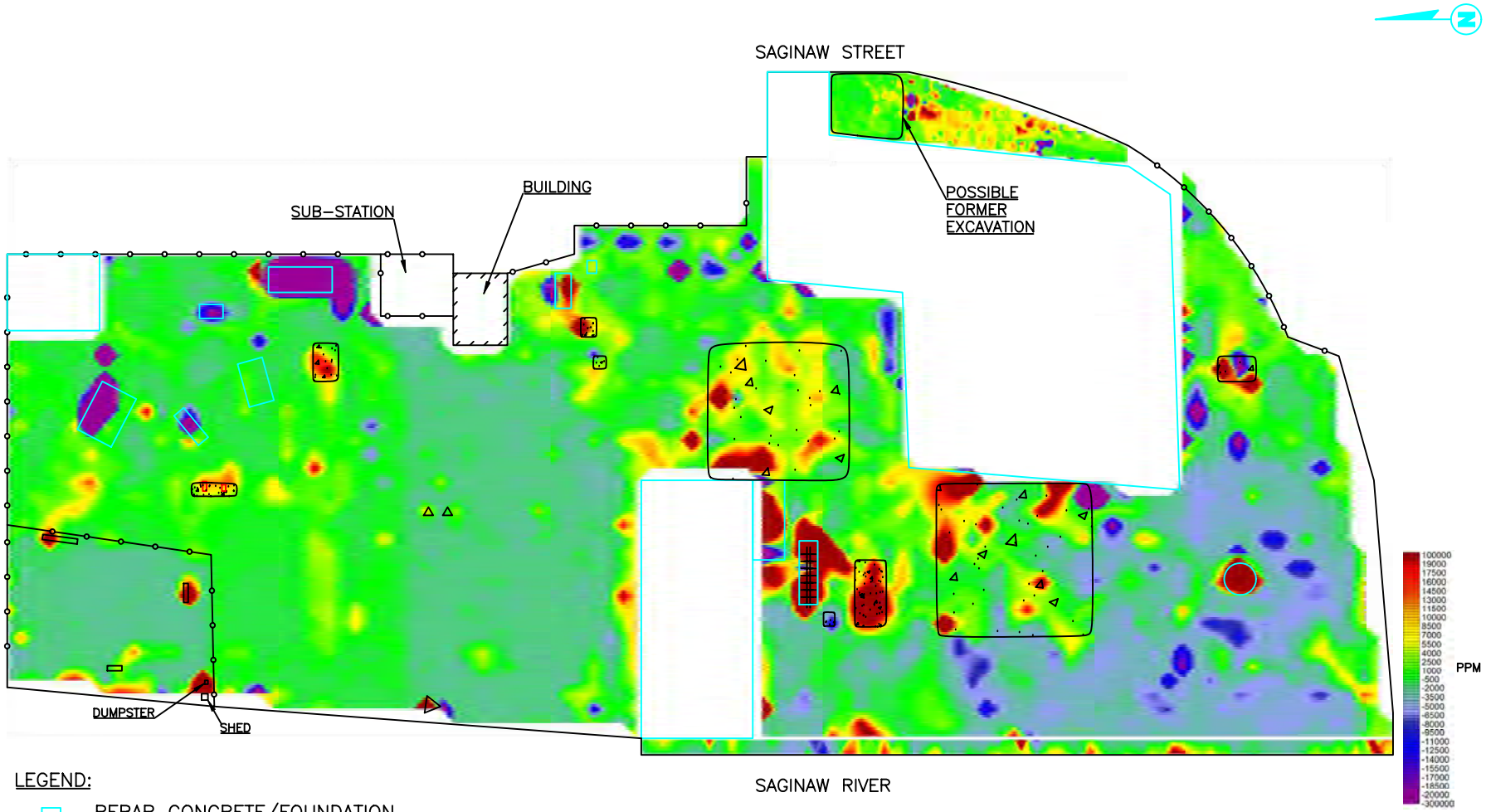
GEOPHYSICAL IMAGING, INC.
3765 TIMBER VALLEY DR
MAUMEE, OH 43537

DRAWN MH

CHECKED

DRAWING NAME
11–563Fig1A

Geophysical Imaging



LEGEND:

- REBAR CONCRETE/FOUNDATION
- FENCE
- TRACKS
- TOWER
- TRUCK/TRAIN CAR

APPROXIMATE SCALE – FEET

0 250 500

FIGURE 2
EM IN-PHASE (METAL SENSITIVE)
CONTOUR MAP – 9,000 Hz
202 SAGINAW STREET
BAY CITY, MICHIGAN

Client
AKT PEERLESS ENVIRONMENTAL SERVICES
SAGINAW, MICHIGAN

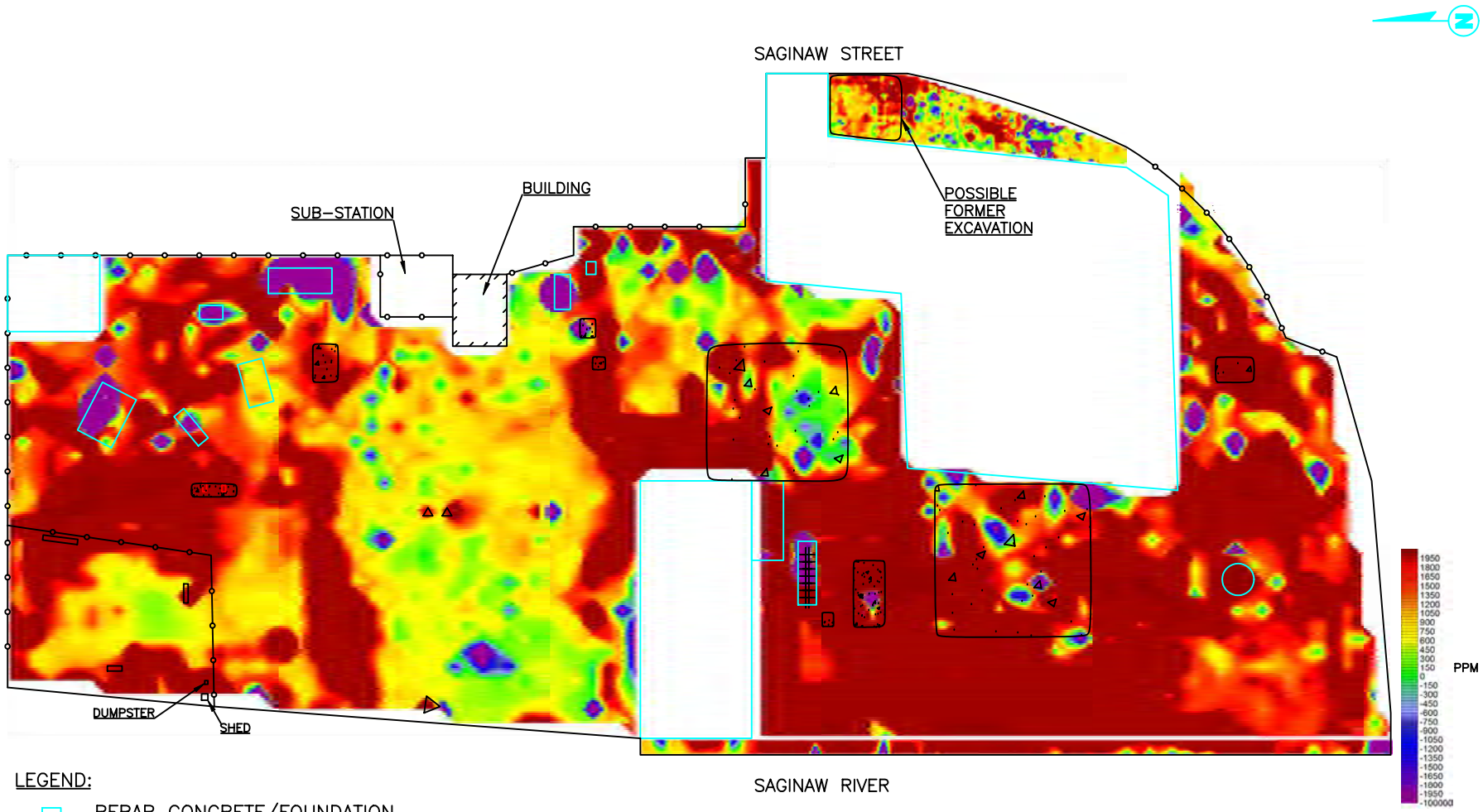
GEOPHYSICAL IMAGING, INC.
3765 TIMBER VALLEY DR
MAUMEE, OH 43537

DRAWN MH

CHECKED

DRAWING NAME
11-563Fig2A

Geophysical Imaging



LEGEND:

- REBAR CONCRETE/FOUNDATION
- FENCE
- TRACKS
- TOWER
- TRUCK/TRAIN CAR

APPROXIMATE SCALE – FEET

0 250 500

FIGURE 3
EM QUADRATURE (TERRAIN CONDUCTIVITY)
CONTOUR MAP – 9,000 Hz
202 SAGINAW STREET
BAY CITY, MICHIGAN

Client
AKT PEERLESS ENVIRONMENTAL SERVICES
SAGINAW, MICHIGAN

GEOPHYSICAL IMAGING, INC.
3765 TIMBER VALLEY DR
MAUMEE, OH 43537

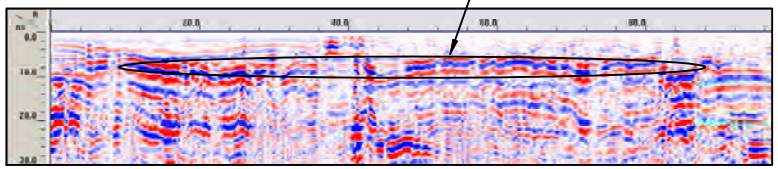
DRAWN MH

CHECKED

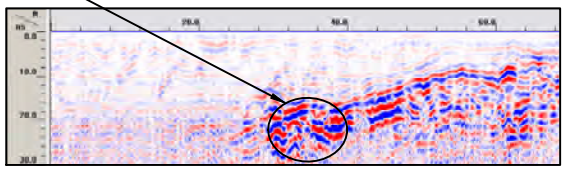
DRAWING NAME
11-563Fig3A

Geophysical Imaging

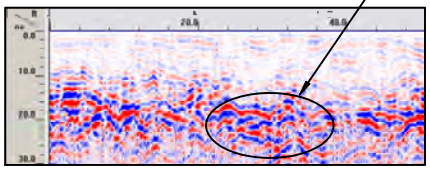
LINESCAN A: over strong EM anomaly area, interpreted possible ferroconcrete/metal debris.



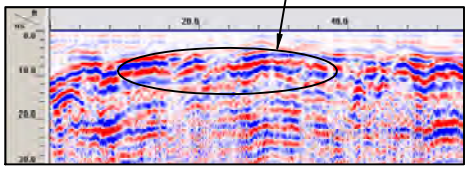
LINESCAN B: over strong EM anomaly area, interpreted possible shallow metal debris.



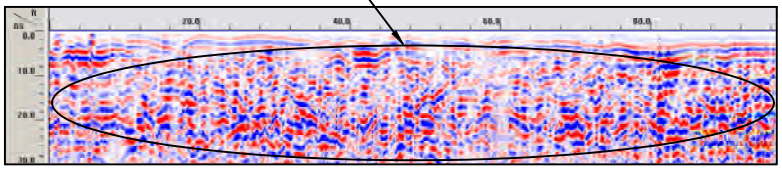
LINESCAN C: over strong EM anomaly area, interpreted possible shallow metal debris.



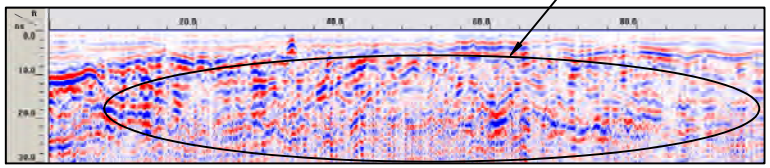
LINESCAN D: over strong EM anomaly area, interpreted possible rebar concrete.



LINESCAN E: over strong EM anomaly area, interpreted possible deep metal debris.



LINESCAN F: over strong EM anomaly area, interpreted possible foundation filled with metal debris.



LINESCAN G: over strong EM anomaly area, interpreted possible foundation filled with metal debris.

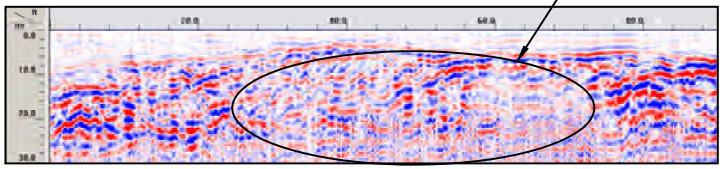


FIGURE 4
TARGETED GPR LINESCANS
LINESCANS A THROUGH G

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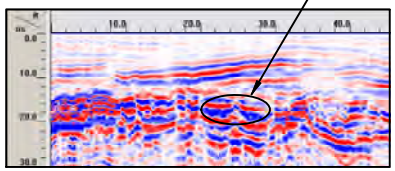
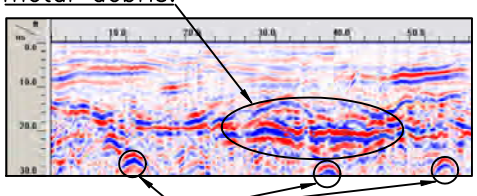
11-563Fig4A

Geophysical Imaging

LINESCAN H: over strong EM anomaly area, interpreted possible rebar concrete.

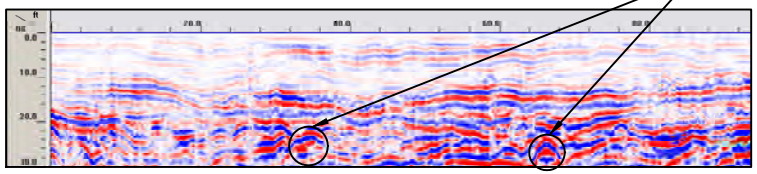


LINESCAN I: over strong EM anomaly area, interpreted possible metal debris.

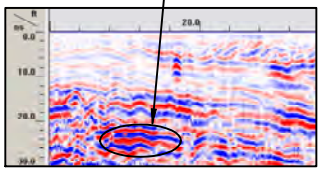


Deep buried large diameter pipes.

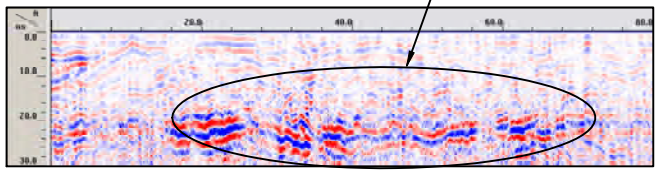
LINESCAN J: hyperbolic reflection responses over strong EM anomaly area, interpreted possible USTs.



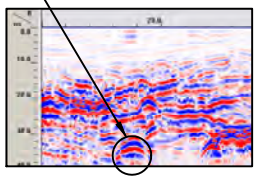
LINESCAN K: along the axis of interpreted possible UST.



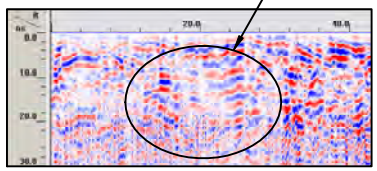
LINESCAN L: over strong EM anomaly area, interpreted possible metal debris.



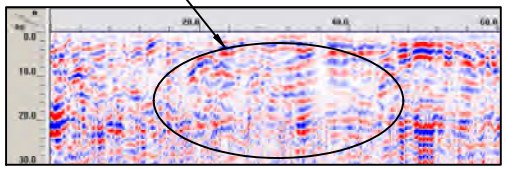
LINESCAN M: over linear EM anomaly area, interpreted possible deep buried large diameter pipe.



LINESCAN N: over strong EM anomaly area, interpreted possible metal debris.

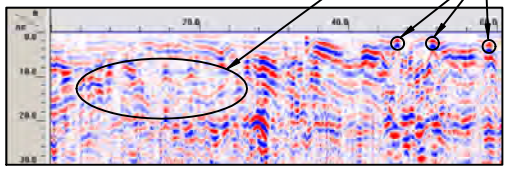


LINESCAN O: over strong EM anomaly area, interpreted possible metal debris.



LINESCAN P: rebar concrete.

Tracks



LINESCAN Q: over strong EM anomaly area, interpreted possible metal debris.

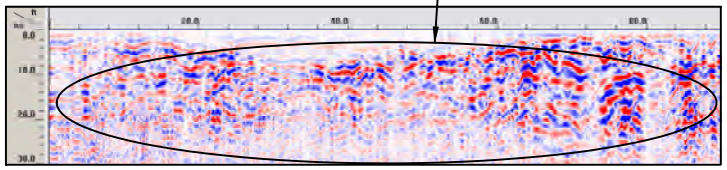


FIGURE 5
TARGETED GPR LINESCANS
LINESCANS H THROUGH Q

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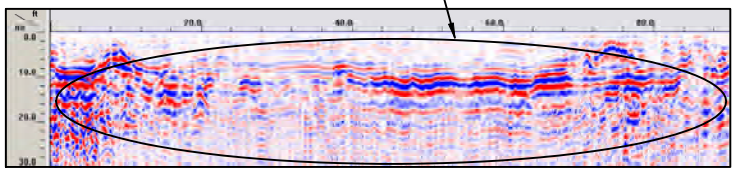
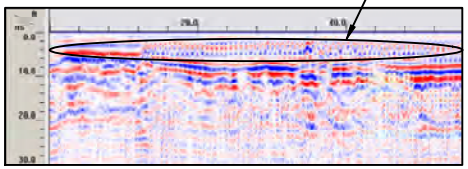
11-563Fig5A

Geophysical Imaging

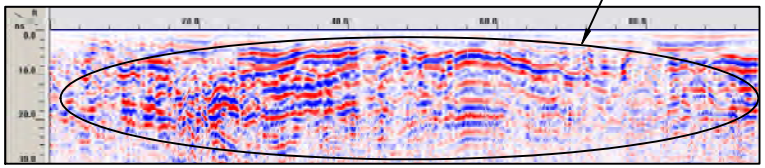
LINESCAN R: over strong EM anomaly area, interpreted possible metal debris.



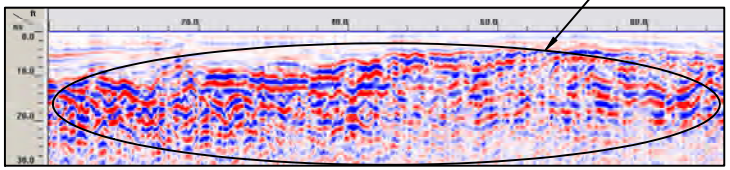
LINESCAN S: rebar concrete.



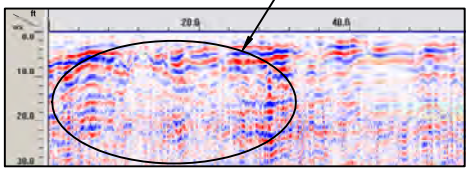
LINESCAN T: over strong EM anomaly area, interpreted possible deep buried metal debris.



LINESCAN U: over strong EM anomaly area, interpreted possible deep buried metal debris.



LINESCAN V: over strong EM anomaly area, interpreted possible rebar concrete/metal debris.



LINESCAN W: over strong EM anomaly area, interpreted possible rebar concrete/metal debris.

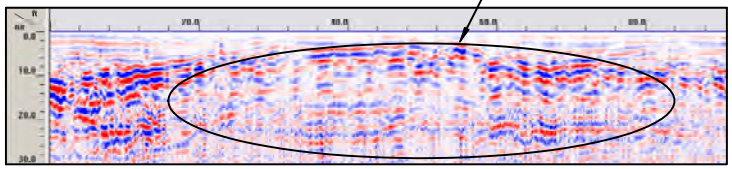


FIGURE 6
TARGETED GPR LINESCANS
LINESCANS H THROUGH Q

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11-563Fig6A

Geophysical Imaging