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SAMPLING AND ANALYSIS TECHNICAL REPORT (MPCA Phase II Investigation Report)

**City of Saint Paul
U.S. EPA Brownfields Assessment Grant
Hazardous Substances and Petroleum
Grant Number: 00E01582**

**West Side Flats Greenway
St. Paul, Minnesota**

AET Project No. 03-06069

Date:

May 25, 2017

Submitted to:

U.S. Environmental Protection Agency
Region V
Mail Code SB-7J
77 – W. Jackson
Chicago, IL 60604

Prepared for:



City of Saint Paul
Planning and Economic Development
Community-Wide Assessment Coalition Grant Project Lead
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May 25, 2017

City of Saint Paul
Planning and Economic Development
Community-Wide Assessment Coalition Grant Project Lead
25 West Fourth Street
1200 City Hall Annex
Saint Paul, MN 55102

Attn: Jamie Radel

RE: Sampling and Analysis Technical Report
West Side Flats Greenway
Fillmore Street, St. Paul, MN
U.S. EPA Brownfields Assessment Grant Number: 00E01582
AET Project No. 03-06069

Dear Ms. Radel:

American Engineering Testing, Inc. has completed the enclosed Sampling and Analysis Technical Report; (MPCA Phase II Environmental Site Assessment) for the West Side Flats Greenway Site. This investigation was conducted as part of Contract Number 878 between the City of St. Paul Department of Planning and Economic Development and American Engineering Testing, Inc. and in accordance with the U.S. EPA-approved Sampling and Analysis Plan and Quality Assurance Project Plan.

Upon your review and any revisions requested the final report will be forwarded to the MPCA and Ms. Linda Mangrum, U.S. EPA, for their review. Please contact me if you have any questions.

Sincerely,
American Engineering Testing, Inc.

A handwritten signature in black ink, appearing to read 'C. V. Howard III', is written over a light blue horizontal line.

C. V. Howard III, PG, CHMM]
Senior Geologist

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Enclosure



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EXECUTIVE SUMMARY

American Engineering Testing, Inc. (AET) was authorized by City of Saint Paul Department of Planning and Economic Development (PED) to conduct soil, groundwater and soil vapor sampling and analysis for the West Side Flats Greenway Site. The Sampling and Analysis activities and services were completed in accordance with AET's EPA-approved Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP). The work was conducted under U.S. EPA Brownfields Assessment Grant Number: 00E01582

The following subsurface impacts have been identified:

- Debris is present in the fill soils which makes the fill/debris mixture a solid waste if it is excavated;
- The levels of DRO, certain metals and BaP Equivalents in the fill soils in certain areas render the materials as MPCA regulated fill soil rather than unregulated fill soil for purposes of off-site reuse;
- Soil vapors are not impacted above the MPCA 33x Residential ISV regulatory criteria; and
- Groundwater appears not to be impacted above regulatory guidelines.

AET recommends the following:

- The information obtained from this investigation coupled with the information from the previous investigation is sufficient to begin designing the Green Infrastructure.
- The excavated soil/debris would need to be disposed of at a landfill. An alternative would be to screen the material to separate the debris from the soil which may result in a more cost-effective measure;
- Additional vapor sampling and a vapor mitigation system are not required however, we can discuss vapor mitigation further based on the information gathered; and
- Because the measured concentrations of contaminant impacts exceed regulatory criteria for the envisioned Site use, an MPCA Response Action Plan (RAP) is warranted to manage the contamination and risks during Site redevelopment. The RAP will depend on the final development of the Site.

1.0 INTRODUCTION

1.1 Introduction

American Engineering Testing, Inc. (AET) was authorized by City of Saint Paul Planning and Economic Development (PED) to conduct soil, groundwater and soil vapor sampling and analysis for the West Side Flats Greenway Site. The Sampling and Analysis (SAP) activities and services were completed in accordance with AET's MPCA and EPA-approved Sampling and Analysis Plan under the U.S. EPA Brownfields Assessment Grant Number: 00E01582

The West Side Flats Greenway Site is bordered by Fillmore Ave., Livingston Street, Plato Blvd. and Starkey Street in St. Paul, MN. The location of the Site is shown on Figure 1 and Figure 2 shows the Site boundaries. The Site is to be developed as a greenway and an area to treat and/or collect storm water prior to being discharged to the Mississippi River. AET understands that mixed use buildings are to be erected on both sides of the greenway. Hereafter, the West Side Flats Greenway Site described above is referred to as the "Site."

Appendix A contains a list of the acronyms and abbreviations used in this report. Appendix B contains a list of documents referenced for this report.

1.2 Purpose

The purpose of the sampling and analysis activities was to determine if the potential sources of contamination due to the presence of recognized environmental conditions (RECs) identified in the Phase I ESA impacted the subsurface. RECs identified in the Phase I ESA include:

- Soils at the Site are impacted with DRO, PAHs, arsenic, lead and chromium above regulated levels. Concentrations of lead exceeded hazardous levels on the parcel east of the Site.
- Fill at the Site also contains non-soil constituents including concrete, ash, coal, slag, plastic, brick, sheet metal, iron scrap and possibly foundry sand.
- Based upon the results of the previous investigations, subsurface impacts from properties with historic uses listed as a machine shop and scrap yards have not been adequately assessed.

As appropriate for any impacts identified by this assessment, relevant assurances will be requested through the Minnesota Pollution Control Agency (MPCA) Voluntary Investigation and Cleanup (VIC) and/or Petroleum Brownfields (PB) Programs for the soils and groundwater at the Site. Such assurances will be requested under separate cover.

1.3 Non-Scope Considerations

The following were not assessed:

- Asbestos in fill. One piece of tile that was suspected of containing asbestos was analyzed; and asbestos was not detected in the sample.
- The presence of methane.

2.0 BACKGROUND

2.1 Site Description and Features

The Site is comprised of 3 acres located in an industrial area. Figure 2 shows the Site configuration. The Site is located in Section 5, Township 28 North, Range 22 West; Ramsey County, Minnesota. The Site is currently not in use and is mostly vacant; the only remaining structures are a warehouse, building foundation and asphalt parking/driving surfaces associated with the former Waterous facility in the northern portion of the Site. The Site has recently been used for parking.

The Site has been developed since at least 1901. Former industrial uses of the Site and nearby properties include food processing, manufacture of gasoline engines and fire hydrants, textiles, scrap yards, stamp- and die shop, a machine shop and a grain mill and elevator. Rail lines and spurs have been present on Site and currently border the western edge of the Site. Adjoining and nearby properties are impacted with diesel range organics (DRO), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), arsenic, lead and mercury

At present, neighboring property uses include the following:

Northeast:	A vacant plot and then various commercial properties including a parking ramp, parking lots, night club and restaurant. Livingston Ave. borders the north and south portions.
Southeast:	A vacant plot and then vacant commercial building at the southwest Site corner and an office building and associated parking lot beyond Plato Boulevard.
Southwest:	Former rail line right of way with commercial properties beyond including vacant commercial building, mechanical contractor and restaurants.
Northwest:	Former rail line right of way

2.2 Physical Setting

AET reviewed published geologic studies, atlases, soil conservation service maps, the current topographic map, and the Wenck Phase II ESA report. The Site is located in the Mississippi River watershed. Underlying soils are stream sediments composed of sand and gravel with areas of fine sediments and organic material. The depth to bedrock, the Prairie du Chien Group, a dolostone with thin beds of sandstone, is approximately 100 to 150 feet below ground surface (bgs).

The Minnesota Department of Health (MDH) maintains a limited database of water well records, the Minnesota Well Index. AET reviewed this database for well logs located at or near the Site. This search identified one well (#272154) registered on the parcel adjacent east to the Site. The well was 10 inches in diameter, 220 feet deep and was an artesian flowing well. Gamma logging indicated the bedrock (Prairie Du Chien Group) could be as shallow as 46 feet bgs.

In the borings that AET advanced on the Site, groundwater was encountered at a depth of 10 feet bgs and appears to flow to the northeast towards the Mississippi River.

2.3 History of Site and Vicinity

Historical records were reviewed because past land use is an indication of whether hazardous substances or petroleum products have been used at the Site and adjoining properties and introduced to the subsurface. The historical records were searched for and reviewed, if available, for types of businesses regulated for hazardous substances or petroleum products, evidence of spills, leaks, or disposal, and potential routes of entry to the subsurface.

Review of the historical data indicates the following commercial businesses that are potentially of environmental concern on and adjacent to the Site:

- The C.A. Stickley and then later the Waterous Co. occupied the northern portion of the Site from before 1901 until sometime in the late 1970s. These businesses appear to be associated with black smith shops, a foundry, a gasoline engine maker, boilers and coal storage. All the buildings but the remaining warehouse were demolished by 1991.

2.4 Previous Environmental Reports

Several previous environmental investigation reports were reviewed by AET. Key findings from the review are summarized in the sections below. Figure 2 shows the Site features and sample locations described in these previous reports. Appendix C contains a table of historical sample analytical results. These investigations were conducted by Wenck Associates.

2.4.1 Phase I ESA

AET reviewed the Phase I ESA previously completed by Wenck for the Site. Wenck concluded that the presence of fill containing construction debris, demolition debris, scrap metal, known elevated levels of metals in the soil, and documented concentrations of DRO and PAHs in soil were RECs in relation to the Site and further investigation was warranted.

2.4.2 Phase II ESA

The Wenck draft Phase II ESA included investigation on the Site and several adjoining parcels to the east, between E. Fairfield Avenue and Plato Boulevard. The Wenck draft Phase II ESA appears to have been focused in two primary areas; the future greenway on the west side and that portion east of Livingston Street. The draft Phase II ESA report provided to AET did not contain the appendices.

Wenck's draft report was completed in 2015 and therefore, results were compared to MPCA's pre- 2016 soil action levels. A figure showing Wenck's sampling location and results is provided in Appendix C. The following is a summary of the findings of the Wenck draft Phase II ESA specific to the Greenway area:

- Twelve test pits were conducted on the Site. No soil borings were conducted on the Site.
- Generally, the test pits encountered 10 to 15 feet of fill consisting of mainly sand with varying amounts of gravel, silt, clay and debris.
- DRO Concentrations exceeded MPCA unregulated fill criteria.
- GRO was not sampled and analyzed.
- Naphthalene was detected at a concentration below MPCA action levels.
- Various PAHs were detected in of the soil samples analyzed for PAHs. None of the detected parameters exceeded regulatory levels. BaP equivalent concentrations were calculated to estimate the aggregate carcinogenic portion of PAHs relative to BaP equivalent. None of the samples exceeded the MPCA Residential Soil Reference Value (SRV).
- Lead exceeded the MPCA Residential SRV (300 mg/kg) at one location. Mercury exceeded the MPCA Residential SRV (0.5 mg/kg) at two locations. Arsenic exceeded the MPCA Residential SRV (9 mg/kg) at one location. Chromium did not exceed the MPCA Residential SRV (87 mg/kg). Barium did not exceed the MPCA Residential SRV (1,100 mg/kg). Cadmium did not exceed the MPCA Residential SRV (25 mg/kg). Two

of the soil samples were also submitted for analysis of lead by the Toxicity Characteristic Leaching Procedure (TCLP). Hazardous lead was not detected in the soil samples.

Based upon field and analytical results, Wenck prepared maps summarizing their results. The maps showed the areas in the Greenway where there is unregulated fill, and where mercury and arsenic were observed at levels above the Residential SRVs. Copies of these maps are included in Appendix C.

The Phase II ESA did not address groundwater contamination or soil gas conditions at the Site. Wenck indicated that due to the preponderance of regulated sites in the Site vicinity, there is a potential risk for groundwater contamination and vapor intrusion into structures on and planned for the Site.

The Wenck Response Action Plan (RAP) included the Site and several parcels adjoining to the east, between E. Fairfield Avenue and Plato Boulevard. The Wenck RAP is focused towards redeveloping the portion of the Site east of Livingston Street to Robert Street, construction of a relocated E Fairfield Avenue and associated utilities, green storm water control infrastructure on the western portion (West Side Flats Greenway Site), demolition of the remaining Waterous building as associated foundations and parking surfaces and target reuse of unregulated fill soils.

Contaminants of Concern (COCs) identified on the Greenway Site are lead, mercury, and arsenic. The source of these contaminants is likely due to incomplete combustion byproducts and residual infill materials placed on the Site in the past.

2.4.3 Additional Previous Reports

AET conducted investigative services on the site for JLT Group, Inc. care of Legend Technical Services, Inc. in 2002. The services consisted of advancing Geoprobos and sampling soil. It appears that no analysis was performed on the samples collected on the Site

3.0 SAMPLING AND ANALYSIS OVERVIEW

3.1 Scope of Services

The Sampling and Analysis were completed in accordance with AET's Sampling and Analysis Plan and the Quality Assurance Project Plan (QAPP).

The scope of services included the following tasks, listed in chronological order:

- Prepared a site specific site safety plan for AET personnel on the site.
- Prepare a Quality Assurance Project Plan (QAPP) and a Sampling and Analysis Plan.

- Cleared public and private underground utilities and located and marked locations for the test pits and borings prior to the day of field activities.
- Advanced seven test pits to 14 feet bgs.
- Advanced six Geoprobe push probes to 10 feet below ground surface (bgs).
- Collected up to three soil samples (representative fill, debris and natural materials) from each test pit and Geoprobe borings for field screening with a photoionization detector (PID) and for submittal to a laboratory.
- Analyzed the samples for volatile organic compounds (VOCs), the 8-RCRA metals, Semi-VOCs, diesel range organics (DRO), polychlorinated biphenyls (PCBs), Polynuclear Aromatic Hydrocarbons (PAHs), gasoline range organics (GRO), pH, and the toxicity characterization procedure (TCLP)
- Prepared this report with the results of the above investigation.

It was originally intended to advance trenches between test pits but concrete footings were encountered.

3.2 Environmental Sampling Rationale

The environmental sample locations were selected to focus on potential contaminant sources such as the Watrous building and to achieve a distribution of sampling locations encompassing potential contamination across the Site. Figure 2 shows the investigation sampling locations. The sampling methods, depths and analytical parameters were selected to generate data which AET considers useful to achieve the objectives described in the Purpose section of this report.

The rationales for specific sampling locations are described below:

- Test pits ATP-1 to ATP-8 were distributed across the Site to determine the extent of debris and possible burial of impacted materials.
- Soil borings AGP-1 to AGP-6 were advanced from south to north to collect groundwater data and additional soil data.
- Vapor probes VP-1, VP-2 and VP-3 were conducted at the north and south ends and in the middle to determine if soil gas impacts are present at the Site.

3.3 Environmental Sampling Methods

Appendix D contains AET's Standard Operating Procedures (SOPs) which detail AET's standard environmental sampling methods. Site-specific considerations or variations from the standard approaches are described in the sections below.

3.3.1 Field Exploration Technologies

The field exploration included Geoprobe borings, test pits/trenches and temporary monitoring wells. The field investigation was conducted on November 16 – 17, 2016. The sampling locations and elevations were recorded using a hand-held global-positioning system (GPS) with a manufacturer-reported accuracy of 1 meter.

Temporary monitoring wells were installed, sampled and sealed in accordance with the MDH rules relating to wells and borings. The temporary monitoring well details are on the logs in Appendix E. The MDH well sealing records are also included in Appendix E.

Temporary vapor probes were conducted and sampled in accordance with MPCA guidance document c-s4-06, “Risk-Based Guidance for the Vapor Intrusion Pathway.”

Test pits were excavated by Taylor West LLC. A trackhoe was used to excavate each test pit to base-of-fill depth for environmental observation and sampling. The test pits were backfilled with the same material which had been removed and the excavator packed the surface with the bucket.

3.3.2 Field Screening Techniques

Soil samples were screened in the field with a photoionization detector (PID) equipped with a [10.6] electron volt (eV) lamp to measure organic vapors in parts-per-million (ppm). Obvious odors and observed visual evidence of contamination were also noted.

3.3.3 Laboratory Analytical Methods

Soil, soil vapor and groundwater samples were submitted under chain-of-custody procedures to Legend Technical Services, Inc. (Legend) for laboratory analysis. The laboratory analytical reports and chain-of-custody records are provided in Appendix F.

Soil

Soil samples were analyzed for the chemical parameters below by the methods referenced

- Diesel range organics (DRO): WI(95) DRO
- Gasoline range organics (GRO): WI(95) GRO
- Volatile organic compounds (VOCs): United States Environmental Protection Agency (EPA) method 8260
- Semi-volatile organic compounds (SVOCs): EPA method 8270

- Polynuclear aromatic hydrocarbons (PAHs) “standard list,” containing the short 7-compound suite of carcinogenic PAHs (also known as cPAHs): EPA method 8270
- Polynuclear aromatic hydrocarbons (PAHs) “extended list,” containing the 25-compound suite of cPAHs: EPA method 8270
- Polychlorinated biphenyls (PCBs): EPA method 8082
- The eight metals of the Resource Conservation and Recovery Act (RCRA) list: EPA methods 6010/7471
- Lead or RCRA metals by the EPA Toxicity Characteristic Leaching Procedure (TCLP): EPA methods 1311/6010
- pH: EPA method 150.1
- Asbestos: Polarized light microscopy: EPA method 600/R-93/116

Groundwater

Groundwater samples were filtered and then analyzed for the chemical parameters below by the methods referenced:

- Diesel range organics (DRO): WI(95) DRO
- GRO: WI(95) GRO
- VOCs: EPA method 8260
- SVOCs: EPA method 8270
- PCBs: EPA method 8082
- The eight RCRA metals list: EPA methods 6010/7471

Soil Gas,

Soil gas samples were analyzed for the chemical parameters below by the methods referenced:

- VOCs: EPA method TO-15.

3.3.4 QA/QC Sampling

Additional samples were collected in accordance with the project QAPP. The results of the QA/QC sample analyses are included in the results tables. Two blind duplicate soil samples were collected from among the testing locations to achieve a minimum frequency of 10% duplicates. The laboratory provided a trip blank for VOCs in soil.

3.4 Reference Standards

The analytical results were compared to MPCA action/regulatory guidance and/or standards. The MPCA values are included in the results tables for comparison with analytical results. The media-specific standards are described in the sections below. The sources of the standards are referenced in Appendix A.

3.4.1 Soil Standards

The following reference standards apply to potential contaminant exposures in soils:

- MPCA Residential and Recreational Soil Reference Values (SRVs): Compound-specific values for long-term soil exposure in unrestricted-use settings (i.e., residential and recreational) above which an unacceptable risk to human health is predicted to exist.
- MPCA Industrial SRVs: Compound-specific values for long-term soil exposure in industrial/commercial-use settings.
- EPA Hazardous Characteristics: Compound-specific values in leachate by TCLP above which the material is considered “hazardous.”
- DRO and GRO Criterion: SRVs do not exist for DRO and GRO soil impacts. The MPCA Remediation Division applies the guidance document “Best Management Practices for the Off-Site Reuse of Unregulated Fill,” which states that petroleum-impacted soil exhibiting measured DRO or GRO concentrations over 100 milligrams-per-kilogram (mg/kg) or PID screening results over 10 ppm is considered “regulated” for reuse. Stricter standards may apply based on the intended property use, soil management considerations, or local solid waste ordinances.

3.4.2 Groundwater Standards

The following reference standards apply to groundwater:

- MDH Health Risk Limits (HRLs): Compound-specific values for drinking water in various exposure scenarios above which an unacceptable risk to human health is predicted to exist. AET references the lowest value for a given compound because the MPCA applies the lowest value in risk assessment for groundwater as a potential drinking water source.
- MDH Health Based Values (HBVs) or Risk Assessment Advice (RAAs): Where toxicity data is sufficient to suggest human health risks yet insufficient to set a HRL value, the MPCA applies the provisional HBVs and RAAs.

- EPA Maximum Contaminant Levels (MCLs): Compound-specific values for drinking water “at the tap” above which an unacceptable risk to human health is predicted to exist. AET references the MCLs for compounds with no assigned HRLs, HBVs, or RAAs.

3.4.3 Soil Gas

The following reference standards apply to the potential inhalation of vapors by intrusion from contaminated soil gas to indoor air environments depending upon the intended redevelopment use of the Site:

- MPCA Residential Intrusion Screening Values (ISVs): Compound-specific inhalation risk screening values for VOCs in residential settings due to vapor intrusion. A multiple factor of 33 times is applied to ISVs to reflect attenuation during vapor intrusion from soils, sub-slab spaces, or groundwater (new MPCA guidance as of 10/31/16).
- MPCA Industrial ISVs: Compound-specific inhalation risk screening values for VOCs in industrial/commercial settings due to vapor intrusion. A multiple factor of 33 times is applied to ISVs to reflect attenuation during vapor intrusion from soils, sub-slab spaces, or groundwater.
- MPCA Acute ISVs: Compound-specific inhalation risk screening values for VOCs that indicate the potential for adverse health effects from short-term exposure.
- PID Screening Criterion: The practical detection limit of a PID is considered to be 1 ppm, although field conditions during sampling may result in higher background measurements. The “action level” for this Site is 5 ppm VOCs in the breathing zone. If the PID detects VOCs of 5 ppm or more over background, work in that area shall stop and the VOCs concentrations shall be re-evaluated.
- Ten-Percent of the Lower Explosion Limit (10%-LEL): AET’s assigned action level for explosive vapors in ambient air, which is one-tenth of the concentration at which methane would theoretically combust if provided sufficient oxygen and a spark.

4.0 SAMPLING AND ANALYSIS RESULTS

4.1 Field Observations

AET performed the field exploration and sampling for this investigation on November 16 -17, 2016. The observational data collected during field exploration activities at the Site are included on the logs in Appendix E.

4.1.1 On-Site Observations

AET's field personnel noted that the snow plows had plowed the snow so a snow berm was around the Site. The berm was comprised of demolition debris, slag, soil, etc. The Site had some bare locations primarily due to parking vehicular traffic and some areas of heavy vegetation. A tent presumed to be erected by a transient was observed. Some test pits and borings had to be moved 10 – 20 feet due to vegetation or concrete obstructions.

4.1.2 Soil Boring Observations

Fill soils were identified in all six borings, ranging from 5 feet thick to 10 feet thick. The observed fill materials generally consisted of silty sand with a trace of gravel. Brick concrete, glass, coal, slag, and ash were noted in fill from all of the boring. Other than debris, obvious indications of potential environmental impacts such as staining or odor were not noted.

Natural alluvial deposits were observed beneath the fill in borings. The alluvium consisted of lenses poorly graded sand and clayey sand extending to the terminal depths of the borings.

4.1.3 Test Pit Observations

Fill soils were also identified in the nine test pits, ranging from 8 feet thick to 10.5 feet thick. Brick concrete, glass, coal, slag, and ash were noted in fill at all of the test pits. The Site also contains concrete footings and metal debris in the fill. Figure 3 depicts the percentage of debris encountered at each AET sampling location. Other than debris, obvious indications of potential environmental impacts such as staining or odor were not noted. Natural alluvial deposits were observed beneath the fill in the test pits and borings. The alluvium consisted of lenses poorly graded sand and clayey sand extending to the terminal depths of the test pits and borings.

4.2 Field Screening Results

The screening data collected during field exploration activities at the Site are included on the soil boring and test pit logs included in Appendix E.

4.2.1 Organic Vapors by PID

PID screening results ranged from 0.0 to 2.1 ppm. The results did not exceed 1 ppm, except in sample: AGP – 2 (10-12 ft. bgs).

4.3 Laboratory Analysis

Appendix F includes the laboratory analytical reports and chains-of-custodies. The laboratory results are summarized in the sections below.

4.3.1 Soil Analytical Results

Table 2 summarizes the results of laboratory analyses performed on soil samples. The soil results are reported in milligrams-per-kilogram (mg/kg), which is equivalent to ppm. The MPCA guidance/action levels are included on the table for comparison and evaluation of impacts.

DRO

Laboratory analyses detected DRO in 10 of 30 soil samples analyzed. Results ranged from non-detect to 500 mg/kg in sample AGP-5 (0 ft. to 2 ft.). The concentration of DRO exceeded 100 mg/kg in samples AGP-5 (0 ft. to 2 ft.), ATP-1 (0 ft. to 2 ft.), ATP-2 (12 ft. to 14 ft.), ATP-3 (6 ft. to 8 ft.), ATP-4 (4 ft. to 6 ft.), ATP-5 (10 ft. to 12 ft.), and ATP-5 Dup (10 ft. to 12 ft.).

VOCs

Laboratory analyses detected various VOCs in 1 of 23 soil samples analyzed (at APT-4). The analytical results did not exceed the MPCA Residential SRVs.

PAHs and SVOCs

Environmental laboratories report the analytical results for each PAH and SVOC compound separately. In accordance with MPCA guidance, AET normalizes the cPAH results to the toxicity of benzo(a)pyrene by applying a designated “potency equivalency factor” to each compound and calculating the weighted sum as total cPAHs (also known as “BaP equivalents”).

Laboratory analyses detected various PAHs in 6 of 11 soil samples analyzed. The results did not exceed the MPCA Residential SRVs except for the following:

- BaP Equivalent greater than the Residential SRV in samples ATP-3 (6 ft. to 8 ft.) ATP-4 (4 ft. to 6 ft.), ATP-5 (10 ft. to 12 ft.), and ATP-5 Dup (10 ft. to 12 ft.).

RCRA Metals

Laboratory analyses detected various RCRA metals in 30 of 30 soil samples analyzed. The results did not exceed the MPCA Residential SRVs, except for the following:

- Arsenic greater than the MPCA Residential SRV in samples AGP-4 (2 ft. to 4 ft.), AGP-6 (2 ft. to 4 ft.), ATP-4 (4 ft. to 6 ft.), ATP-5 (10 ft. to 12 ft.), and ATP-5 Dup (10 ft. to 12 ft.);
- Cadmium greater than the MPCA Residential SRV in samples AGP-4 (2 ft. to 4 ft.), ATP-5 (10 ft. to 12 ft.), and ATP-5 Dup (10 ft. to 12 ft.);
- Chromium greater than the MPCA Residential SRV in samples AGP-1(0 ft. to 2 ft.), AGP-2(2 ft. to 4 ft.), AGP-3(6 ft. to 8 ft.), AGP-4(2 ft. to 4 ft.), AGP-4(12 ft. to 15 ft.),

AGP-5(0 ft. to 2 ft.), and AGP-5 (8 ft. to 10 ft.) ATP-1(0 ft. to 2 ft.), ATP-2(2 ft. to 4 ft.), ATP-2(12 ft. to 14 ft.) ATP-4(12 ft. to 14 ft.), ATP-5(10 ft. to 12 ft.), ATP-5 Dup (10 ft. to 12 ft.) ATP-5 (12 ft. to 14 ft.), ATP-6 (0 ft. to 2 ft.), ATP-7 (2 ft. to 4 ft.) and ATP-8 (0 ft. to 2 ft.);

- Lead greater than the MPCA Residential SRV in sample AGP-3(6 ft. to 8 ft.) ATP-4(4 ft. to 6 ft.) and ATP-5 Dup (12 ft. to 14 ft.).
- The concentration of lead in samples AGP-3(6 ft. to 8 ft.), AGP-4 (2 ft. to 4 ft.) AGP-5(0 ft. to 2 ft.), AGP-5(8 ft. to 10 ft.), ATP-2(12 ft. to 14 ft.) ATP-3(6 ft. to 8 ft.), ATP-4(4 ft. to 6 ft.), ATP-5(12 ft. to 14 ft.), ATP-5 Dup (12 ft. to 14 ft.), ATP-7 (2 ft. to 4 ft.) and ATP-8 (0 ft. to 2 ft.) exceeded the 100 mg/kg threshold at which area landfills require additional laboratory characterization to distinguish hazardous character. The subsequent TCLP analytical results did not exceed EPA hazardous characteristics.

4.3.2 Groundwater Results

Table 3 lists the results of laboratory analyses performed on groundwater samples. The water results are reported in micrograms-per-kilogram ($\mu\text{g}/\text{kg}$) which is equivalent to parts-per-billion (ppb). The reference standards are included on the table for comparison and evaluation of impacts.

DRO

Laboratory analyses detected DRO in six soil samples and one groundwater sample. DRO was also detected in the duplicate soil and groundwater samples. Detected results ranged from non-detect to 170 $\mu\text{g}/\text{L}$ in sample AGP-5 and its duplicate sample. The DRO results are below the MDH HBV

GRO

Laboratory analyses did not detect GRO in the 6 groundwater samples analyzed for GRO.

RCRA Metals

Laboratory analyses did not detect RCRA metals in the 6 groundwater samples analyzed except for barium which was detected at levels well below the HRL.

VOCs

Laboratory analyses did not detect VOCs in the 6 groundwater samples analyzed for VOCs except for tetrachloroethene at a concentration of 1.4 $\mu\text{g}/\text{L}$ well below the HRL of 5 $\mu\text{g}/\text{L}$.

SVOCs

Laboratory analyses did not detect SVOCs in the 6 groundwater samples analyzed for SVOCs.

PCBs

Laboratory analyses did not detect PCBs in the 3 groundwater samples analyzed for PCBs.

4.3.3 Soil Vapors

Table 4 lists the results of laboratory analyses performed on soil gas samples. The vapor results are reported in micrograms-per-cubic-meter ($\mu\text{g}/\text{m}^3$); this is *not* directly equivalent to parts-per-billion by volume (ppbv). The reference standards are included on the table for comparison and evaluation of impacts.

Various soil vapor compounds were detected, all below their respective ISV except for 1,3 Butadiene, Benzene, Carbon tetrachloride and Trichloroethene.

5.0 DISCUSSION

5.1 Soil Physical Conditions

5.1.1 Fill Soils

Subsurface sampling during this investigation indicates that the fill soils in the tested areas are typically 10 feet thick. The presence of debris in the fill across the Site but particularly in the center the Site indicate a likelihood of localized contamination.

The fill soil with debris will have to be treated as solid waste if excavated and therefore regulated. The presence of debris may be difficult to quantify and delineate by field methods during the site preparation and development of the Greenway.

5.1.2 Natural Soils

The fill is underlain by natural alluvium consisting of sand. Evidence of contamination has not been observed or detected by laboratory analysis in the natural soils at the Site. Therefore, AET considers the natural soils consistent with criteria for use as unregulated fill, based on MPCA guidance documents.

5.2 Soil Contamination Conditions

5.2.1 Regulated Fill

The fill soil with debris will have to be treated as solid waste if excavated. In March 2012, the MPCA released guidance on the off-site reuse of regulated fill soils. However, there are reporting requirements and there may be business environmental risks associated with the movement of “contaminated” soil among properties. Since this is an evolving regulatory matter, further discussion is warranted if it is intended to reuse regulated fill soil.

5.2.2 BaP Equivalentents

The BaP Equivalentents exceeds the MPCA Industrial SRV in fill soils at various sample locations. The presence of contaminants at such levels would require off-site disposal if the fill soils are removed to sufficient depths to encounter the contaminated materials. If liability assurances are needed, then additional contaminated soils may need to be removed to meet MPCA standards.

5.2.3 Metals

Lead was detected at levels above natural concentrations. At one location (AGP-3) the lead concentration exceeded the MPCA Residential SRV but the material was below the hazardous waste TCLP criteria. Chromium was observed at levels equal to or slightly greater than the MPCA Residential SRV at seven locations. Given the results were slightly less than or equal to the MPCA Residential SRV in the alluvium this may be an area of naturally high chromium. The past investigation also noted that in one local area on the north side, arsenic and lead exceeded their respective Residential SRV (TP-23).

5.3 Groundwater Contamination Conditions

The groundwater analytical results indicate that the groundwater is not impacted above regulatory levels.

5.4 Soil Vapor Contamination Conditions

Various soil vapor compounds were detected, all below their respective ISV except for 1,3-Butadiene, Benzene, Carbon tetrachloride and Trichloroethene. The concentrations of Benzene, Carbon tetrachloride and Trichloroethene are well below the MPCA action levels of 33x their respective Residential ISV. 1,3-Butadiene is a common false positive. Given these results, soil vapors are not present at levels requiring a vapor mitigation system.

6.0 CONCLUSIONS

The following subsurface impacts have been identified:

- Debris present in the fill soils makes the fill/debris mixture a solid waste if it is excavated.
- The levels of DRO, certain metals and BaP Equivalents in the fill soils in certain areas depicted in Figure 4 render the materials as regulated fill soil rather than unregulated fill soil for purposes of off-site reuse;
- Soil vapors are not impacted above the MPCA 33x Residential ISV regulatory criteria; and
- Groundwater appears not to be impacted above regulatory guidelines.

7.0 RECOMMENDATIONS

AET recommends the following:

- The information obtained from this investigation coupled with the information from the previous investigation is sufficient to begin designing the Green Infrastructure;
- The excavated soil/debris would need to be disposed of at a landfill. An alternative would be to screen the material to separate the debris from the soil which may result in a more cost-effective measure;
- Additional vapor sampling and a vapor mitigation system are not required however, we can discuss vapor mitigation further based on the information gathered; and
- Because the measured concentrations of contaminant impacts exceed regulatory criteria for the envisioned Site use, an MPCA Response Action Plan (RAP) is warranted to manage the contamination and risks during Site redevelopment. The RAP will depend on the final development of the Site.

8.0 REPORT CLOSURE

8.1 Reliance

AET has prepared this Report for the exclusive use of the PED for specific application to the Site. Written authorization by AET is necessary for other parties to rely on this report.

Because Site uses and environmental conditions can change over time, this report must be considered time-sensitive. AET should be consulted if 180 days have elapsed since the report date or the passage of time results in uncertainty about the continuing applicability of this report. consulted to determine if there are material impacts on our conclusions or recommendations.

8.2 Methodology

This investigation has been conducted under the supervision of an Environmental Professional, pursuant to ASTM Practice E1903-11, and for the objectives described in the Purpose section of this report. AET's findings, opinions, conclusions, and recommendations are based on the Scope of Services defined in this report and are not intended to address non-scope considerations. If additional information on non-scope considerations is needed, please contact AET.

8.3 Remarks

The information gathered during the performance of this investigation may be useful for allocating business environmental risk in transactional and contractual contexts or for disclosing liability in financial statements and securities reporting. However, the PED is fully responsible for the appropriate use of this report in such contexts.

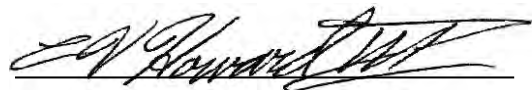
The data derived through this investigation has been used to develop professional opinions about the subsurface and environmental conditions at the Site. However, we recognize that not all critical information may have become known to AET and that no exploration program can fully reveal what is in the subsurface. As a result, there may be impacted locations or media that were not detected, and there may be contaminants present other than those for which we tested given the Purpose and Scope of Services.

9.0 QUALIFICATIONS AND SIGNATURES

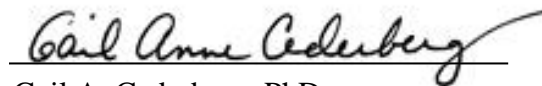
We, *Trey Howard and Gail Cederberg*, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. We have developed and performed the assessment in conformance with the practices set forth in ASTM: E1903-11.

Report Authored By:

Report Reviewed By:



C. V. Howard III, PG, CHMM
Senior Geologist
Project Manager



Gail A. Cederberg, PhD
Vice President, Environmental Services
Project Quality Manager

Tables



Sample	AGP-1	AGP-1	AGP-2	AGP-2	AGP-3	AGP-3	AGP-3 (Dup)	AGP-4	AGP-4	AGP-5	AGP-5	AGP-6	AGP-6	Trip Blank	MPCA Unregulated Fill Criteria 2013	DRAFT MPCA Residential / Recreational SRVs 2016	DRAFT MPCA Commercial / Industrial SRVs 2016
Depth (ft)	0-2	10-12	2-4	6-8	6-8	12-15	12-15	2-4	12-15	0-2	8-10	2-4	8-10				
Date Sampled	16-Nov-16	16-Nov-16	16-Nov-16	16-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	16-Nov-16			
Date Received	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16			
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Parameter / Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
Petroleum (mg/Kg)																	
Diesel Range Organics	33	<6.8	7.2	<7.0	62	<6.7	<6.5	36	<6.3	550	18	<7.2	<7.1	NS	100	NE	NE
Gasoline range organics	<5.7	<6.0	<6.7	<6.4	<7.2	<5.8	<5.6	<8.5	<5.6	<8.8	<6.1	<5.5	<5.9	<5.0	100	NE	NE
VOCs (mg/Kg)																	
Various VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
SVOCs (mg/Kg)																	
Benzo(a)anthracene	0.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	BaP Eq	BaP Eq	BaP Eq
Benzo(a)pyrene	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	BaP Eq	BaP Eq	BaP Eq
Benzo(b)fluoranthene	0.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	BaP Eq	BaP Eq	BaP Eq
Chrysene	0.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	BaP Eq	BaP Eq	BaP Eq
Fluoranthene	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	670	510	6700
Pyrene	0.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.36	<0.35	NS	440	44	44
BaP Equivalent	0.496	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0	0	NS	1.41	1	14
Total Metals (mg/Kg)																	
Antimony	NS	NS	NS	NS	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.4	6.2	93
Arsenic	1.8	1.6	1.7	1.2	14	2.1	2.6	22	2.9	5.2	2.9	19	1.6	NS	5.8	9	9
Barium	26	27	35	15	230	51	89	240	45	220	100	71	31	NS	1700	3000	35000
Beryllium	NS	NS	NS	NS	0.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.7	31	380
Cadmium	0.17	0.065	0.1	<0.052	1.3	0.14	0.19	2	0.081	0.29	0.3	0.12	0.08	NS	8.8	1.6	23
Chromium	13	7	11	10	21	9.6	8.4	19	11	14	13	8.6	6.5	NS	36	11	57
Copper	NS	NS	NS	NS	63	NS	NS	NS	NS	NS	NS	NS	NS	NS	700	2200	33000
Lead	17	2.2	6.7	1.4	450	4	5	270	6.4	200	140	18	2.1	NS	2700	300	700
Mercury	<0.57	<0.60	<0.54	<0.52	<0.62	<0.58	<0.56	<0.59	<0.56	0.93	<0.61	<0.55	<0.54	NS	3.3	3.1	3.1
Nickel	NS	NS	NS	NS	16	NS	NS	NS	NS	NS	NS	NS	NS	NS	180	170	2600
Selenium	<2.8	<3.0	<2.7	<2.6	<3.1	<2.9	<2.8	<2.9	<2.8	<2.9	<3.0	<2.7	<2.7	NS	2.6	77	1200
Silver	<0.57	<0.60	<0.54	<0.52	<0.62	<0.58	<0.56	<0.59	<0.56	<0.57	<0.61	<0.55	<0.54	NS	7.9	77	1200
Thallium	NS	NS	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	89	NE	2.3
Zinc	NS	NS	NS	NS	490	NS	NS	NS	NS	NS	NS	NS	NS	NS	3000	4600	70000
TCLP Metals (mg/L)																	
TCLP Lead	NS	NS	NS	NS	0.089	NS	NS	0.99	NS	<0.075	<0.075	NS	NS	NS	Maximum Concentration for Toxicity Characteristic = 5 mg/L		
PCBs (mg/Kg)																	
Various PCBs	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	2.1	0.81	10
Wet Chemistry																	
pH	NS	NS	NS	NS	8.5	9.3	NS	8.2	8.1	9.1	NS	8.8	NS	NS	NE	NE	NE

Notes:

- Exceeds MPCA Unregulated Fill Criteria
- Exceeds DRAFT MPCA Residential / Recreational SRVs 2016
- Exceeds DRAFT MPCA Commercial / Industrial SRVs 2016

< = Less than laboratory reporting limit

BaP Eq. = Benzo(a)pyrene Equivalent

Bold = detected concentration above laboratory reporting limit

Dup = Duplicate sample

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

MPCA = Minnesota Pollution Control Agency

MPCA Unregulated Fill Criteria: < SRVs, SLVs, 10 ppm organic vapors, 100 mg/kg DRO/GRO

ND = Not detected above laboratory reporting limit

NE = Not established

NS = Not sampled

PCBs = Polychlorinated biphenyls

SLV = Soil leaching value

SRV = Soil reference value

SVOCs = Semi-volatile organic compounds

TCLP = Toxicity characteristic leachate procedure

VOCs = Volatile organic compounds



Table 3 - Geoprobe Groundwater Analytical Results Summary Table
 West Side Flats - Fillmore Site, Greenway
 St. Paul, MN
 AET Project No. 03-06069

Sample		AGP-1	AGP-2	AGP-3	AGP-4	AGP-5	AGP-5 (Dup)	AGP-6	Equip. Blank	Trip Blank	MDH HRLs
Depth (ft)		10-15	13-17	12-17	11-21	5-10	5-10	14-19			
Date Sampled		16-Nov-16	16-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	16-Nov-16	
Date Received		17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16	
Parameter	Units/Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	
Petroleum (ug/L)											
Diesel Range Organics	ug/L	<100	<100	<100	<140	130	170	<100	<100	NS	NE
Gasoline range organics	ug/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	NE
VOCs (ug/Kg)											
VOCs	ug/L	ND	NS	NS	ND	NS	NS	ND	ND	NS	Various
SVOCs (ug/Kg)											
SVOCs	ug/L	ND	NS	NS	ND	NS	NS	ND	ND	NS	Various
Dissolved Metals (mg/L)											
Arsenic	mg/L	<0.020	NS	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NS	0.01
Barium	mg/L	0.069	NS	0.5	0.086	0.12	0.13	0.058	<0.020	NS	2,000
Cadmium	mg/L	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	0.05
Chromium	mg/L	<0.010	NS	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	0.1
Lead	mg/L	<0.015	NS	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	NS	0.015
Mercury	mg/L	<0.010	NS	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	0.002
Selenium	mg/L	<0.050	NS	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	30
Silver	mg/L	<0.010	NS	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	30
PCBs (ug/L)											
Total PCBs	ug/L	<2.0	NS	NS	<2.0	NS	NS	<2.0	<1.8	NS	0.004

Notes:

Exceeds MDH HRLs

< = Less than laboratory reporting limit

Bold = detected concentration above laboratory reporting limit

Dup = Duplicate sample

HRL = Health Risk Limit

MDH = Minnesota Department of Health

mg/L = Milligrams per liter

ND = Not detected above laboratory reporting limit

NE = Not established

NS = Not sampled

PCBs = Polychlorinated biphenyls

SVOCs = Semi-volatile organic compounds

ug/L = Micrograms per liter

VOCs = Volatile organic compounds



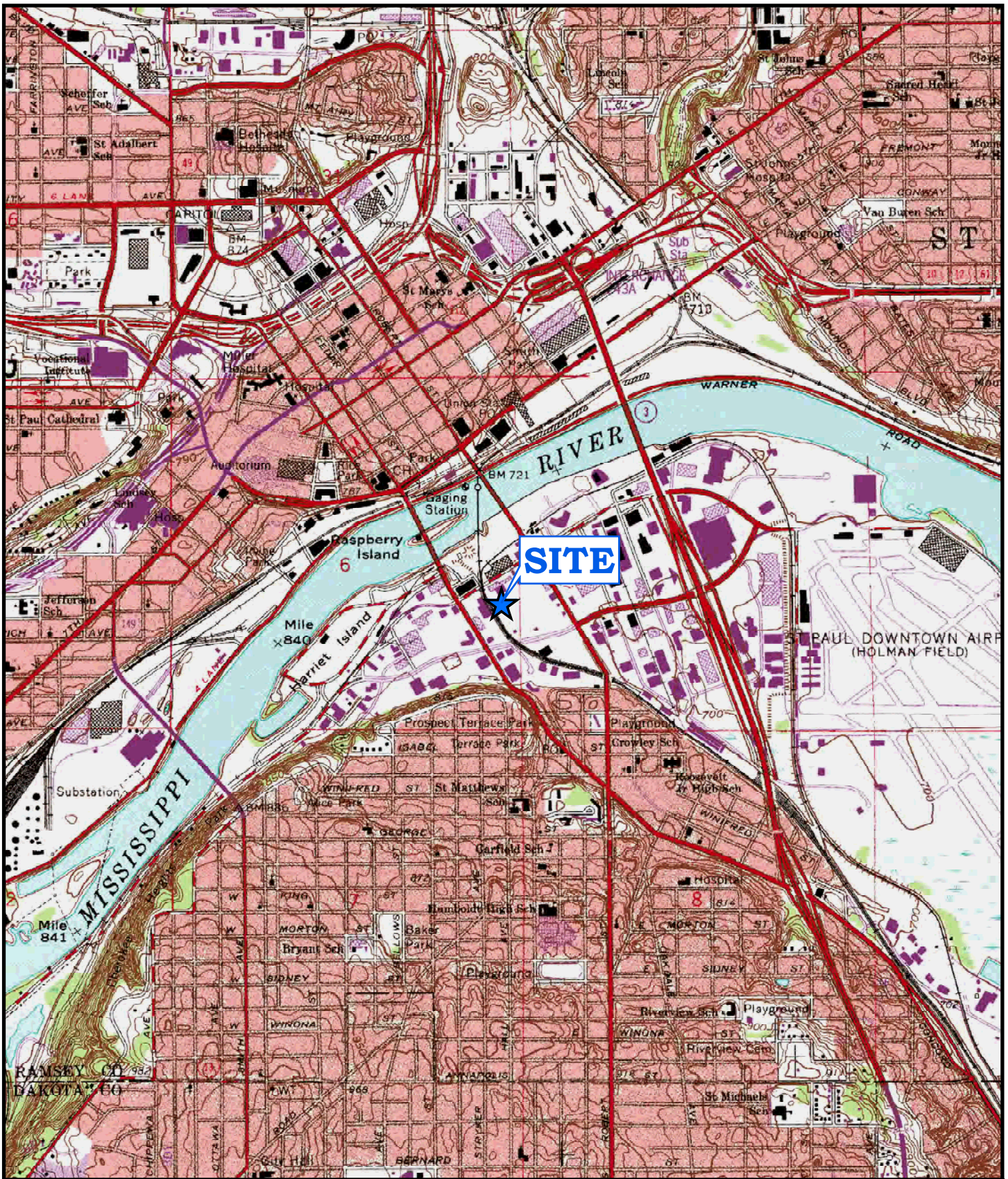
Table 4 - Soil Vapor Analytical Results Summary Table
West Side Flats - Fillmore Site, Greenway
St. Paul, MN
AET Project No. 03-06069

Sample	AGP-1 (SV-1)	AGP-2 (SV-2)	AGP-6 (SV-3)	AGP-6 (DUP)	Residential Intrusion Screening Values (ISVs)	Residential 10X ISVs	33X Residential ISVs	Residential 100X ISVs	Acute ISVs
Depth (ft)	3-5	3-5	3-5	3-5					
Date Sampled	16-Nov-16	16-Nov-16	17-Nov-16	16-Nov-16					
Date Received	17-Nov-16	17-Nov-16	17-Nov-16	17-Nov-16					
Matrix	Air	Air	Air	Air					
Parameter / Units	ug/m ³	ug/m ³	ug/m ³	ug/m ³					
Volatiles Organic Compounds (VOCs)									
1,2,4-Trimethylbenzene	<1.0	<1.0	1.4	1.4	7	70	231	700	6000
1,3-Butadiene*	56	19	14	53	0.3	3	9.9	30	NE
2-Butanone	39	22	47	50	5000	50000	165000	500000	NE
Acetone	150	68	190	180	31000	310000	1023000	3100000	60000
Benzene*	10	16	11	18	4.6	46	151.8	460	NE
Carbon disulfide	8.2	13	9.3	20	700	7000	23100	70000	NE
Carbon tetrachloride*	<3.1	5.2	<3.1	<3.1	1.7	17	56.1	170	NE
Chloromethane	<1.0	3.1	<1.0	<1.0	90	900	2970	9000	NE
Cyclohexane	24	4.3	2.7	9.4	6000	60000	198000	600000	NE
Dichlorodifluoromethane	<2.5	9.1	<2.5	2.7	NE	NE	NE	NE	1.8
Ethanol	16	9.4	<0.94	13	15000	150000	495000	1500000	10000
Ethylbenzene*	<0.87	2.2	1.8	1.7	4.1	41	135.3	410	7000
Isopropyl alcohol	4.7	5.3	2.9	5.5	7000	70000	231000	700000	NE
m,p-Xylene	2.2	2.8	4	4.8	100	1000	3300	10000	NE
Methylene chloride*	3	<1.7	<1.7	21	630	6300	20790	63000	NE
n-Heptane	6.7	6.9	4.7	17	NE	NE	NE	NE	20000
n-Hexane	13	11	23	77	2000	20000	66000	200000	NE
o-Xylene	0.95	1.1	1.4	1.5	100	1000	3300	10000	37000
Propylene	470	100	130	590	3000	30000	99000	300000	140000
Tetrachloroethene*	<3.4	<3.4	9	6.3	3.4	34	112.2	340	2000
Toluene	7.6	12	13	18	5000	50000	165000	500000	NE
Trichloroethene*	33	<1.1	<1.1	1.4	2.1	21	69.3	210	NE
Tentatively Identified Compounds									
1-Decene	120	150	84	77	NE	NE	NE	NE	NE
1-Propene, 2-methyl-	130	ND	44	91	NE	NE	NE	NE	NE
Acetaldehyde	ND	ND	35	ND	NE	NE	NE	NE	NE
Butane	110	ND	37	130	NE	NE	NE	NE	NE
Cyclohexane, 1,1,2,3-tetramethyl-	180	ND	ND	ND	NE	NE	NE	NE	NE
Cyclohexane, 1,1,2-trimethyl-	140	ND	ND	ND	NE	NE	NE	NE	NE
Cyclohexane, 1,1,3-trimethyl-	430	ND	ND	ND	NE	NE	NE	NE	NE
Cyclohexane, 1,1-dimethyl-	160	ND	ND	ND	NE	NE	NE	NE	NE
Cyclohexane, methyl-	460	ND	ND	ND	NE	NE	NE	NE	NE
Cyclopentane, 1,2-dimethyl-	160	ND	ND	ND	NE	NE	NE	NE	NE
Cyclopentane, 1,3-dimethyl-	ND	100	84	79	NE	NE	NE	NE	NE
Decane	180	240	140	130	NE	NE	NE	NE	NE
Hexane, 2,3-dimethyl-	ND	ND	43	59	NE	NE	NE	NE	NE
Isobutane	ND	ND	ND	72	NE	NE	NE	NE	NE
Nonane, 3-methyl-	ND	130	60	ND	NE	NE	NE	NE	NE
Nonane, 3-methylene-	ND	110	ND	58	NE	NE	NE	NE	NE
Octane	ND	71	ND	ND	NE	NE	NE	NE	NE
Pentane, 3-ethyl-2-methyl-	ND	100	ND	ND	NE	NE	NE	NE	NE
Propyne	ND	30	30	71	NE	NE	NE	NE	NE
Sulfurous acid, butyl nonyl ester	ND	170	ND	ND	NE	NE	NE	NE	NE
Undecane, 2,7-dimethyl-	ND	140	ND	99	NE	NE	NE	NE	NE
Undecane, 3,7-dimethyl-	ND	ND	97	ND	NE	NE	NE	NE	NE

Notes:

- Exceeds 33x Residential ISV
- * = Parameter compared to the Minnesota Pollution Control Agency's Interim Intrusion Screening Values (ISVs)
- < = Less than laboratory reporting limit
- Bold = detected concentration above laboratory reporting limit**
- ISV = Intrusion Screening Value
- MPCA - Minnesota Pollution Control Agency
- ND = Not detected above laboratory reporting limit
- NE = Not established
- ug/m³ = micrograms per cubic meter

Figures



Map Reference: USGS 7.5" Quadrangle, Saint Paul East, Minnesota

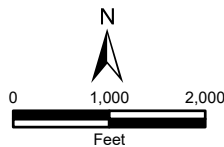


Figure 1
Site Location Map

Sampling and Analysis Technical Report

West Side Flats Greenway
St. Paul, Minnesota

Date: 01/05/2017

AET Project No. 03-06069

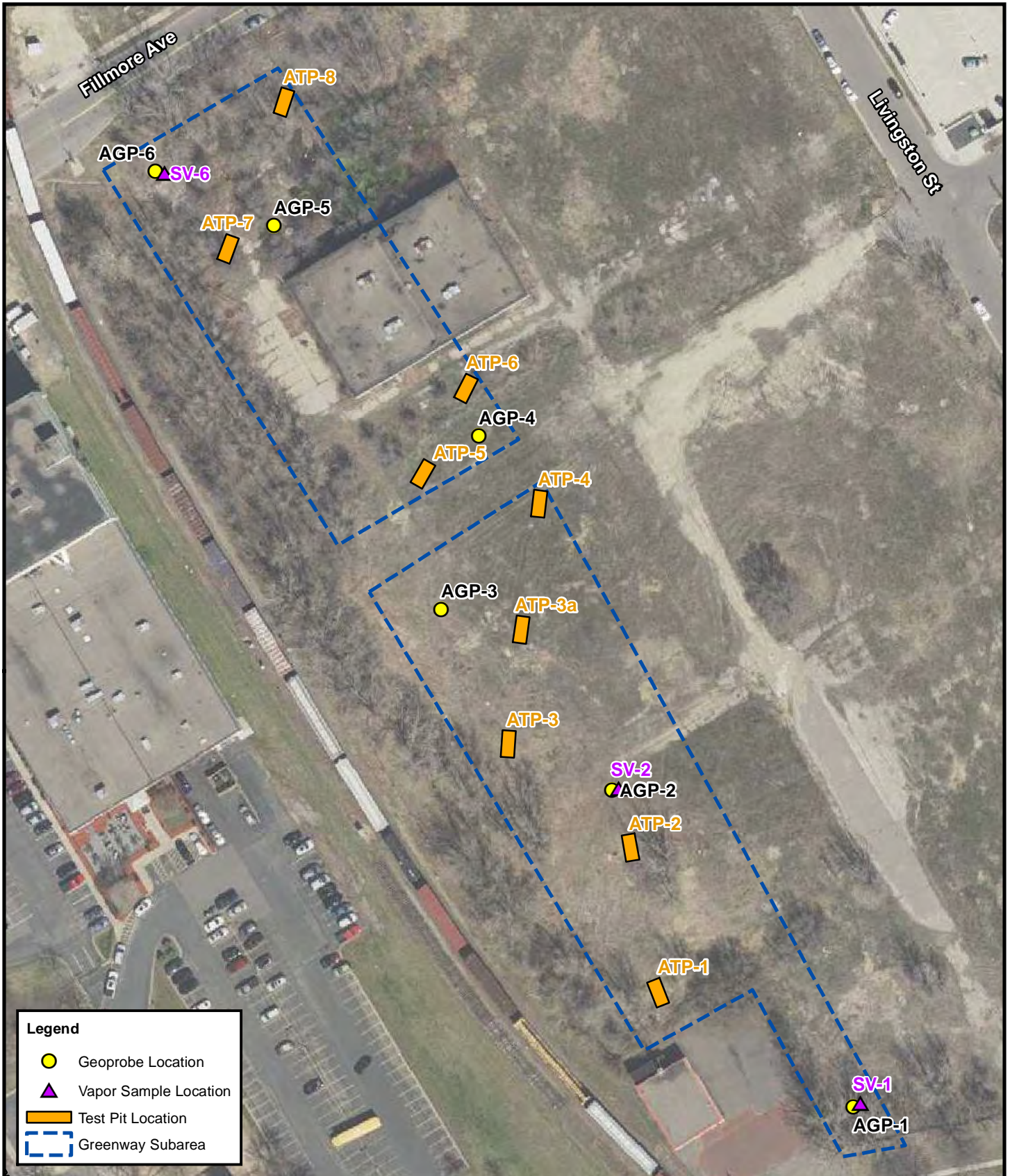


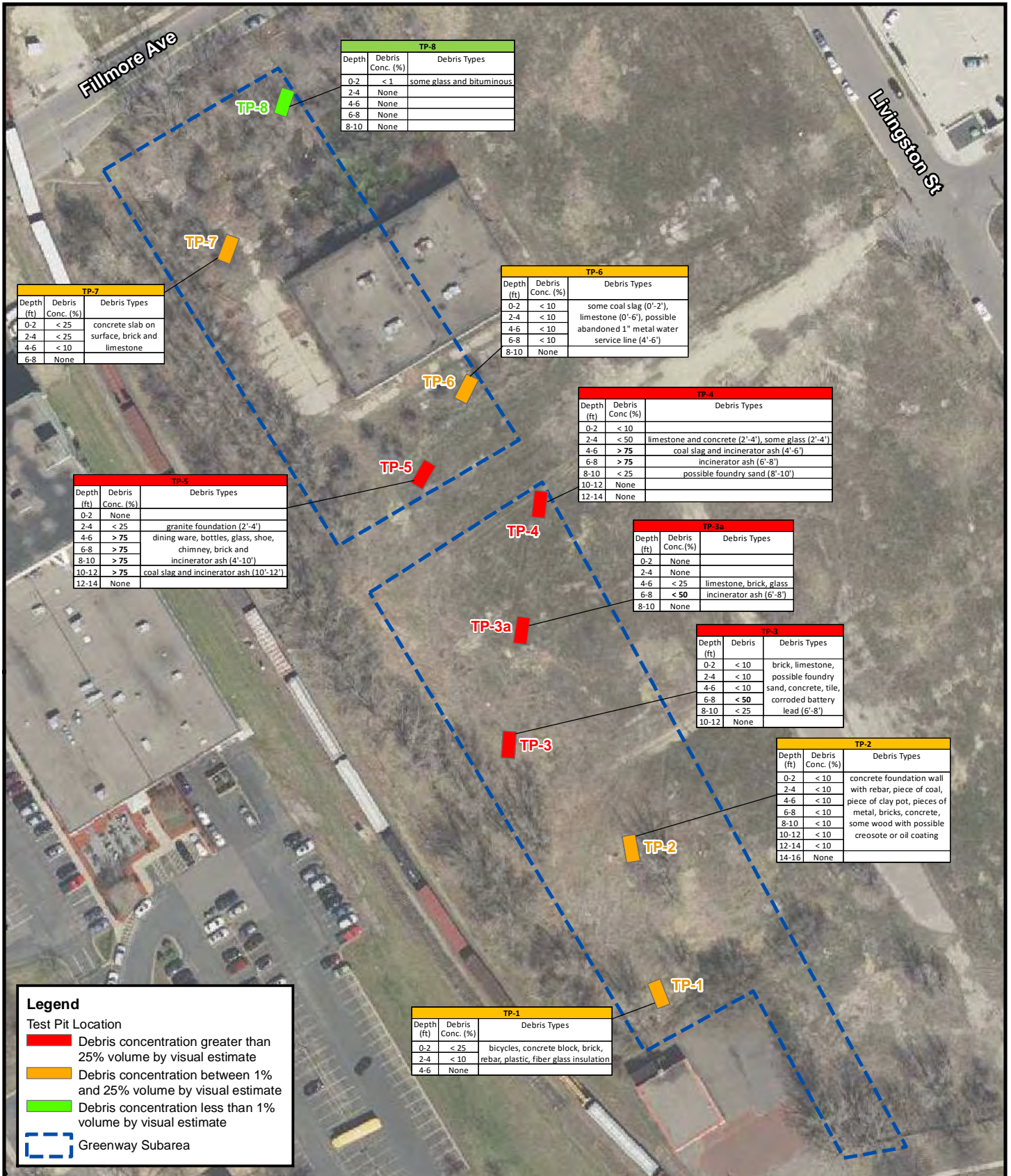
Figure 2
Site Map

Sampling and Analysis Technical Report

West Side Flats Greenway
St. Paul, Minnesota

Date: 01/05/2017

AET Project No. 03-06069



Map Reference: Metropolitan Council, Surdex Corporation, Digital Orthoimagery, Twin Cities, Minnesota, Spring 2016.

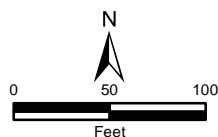
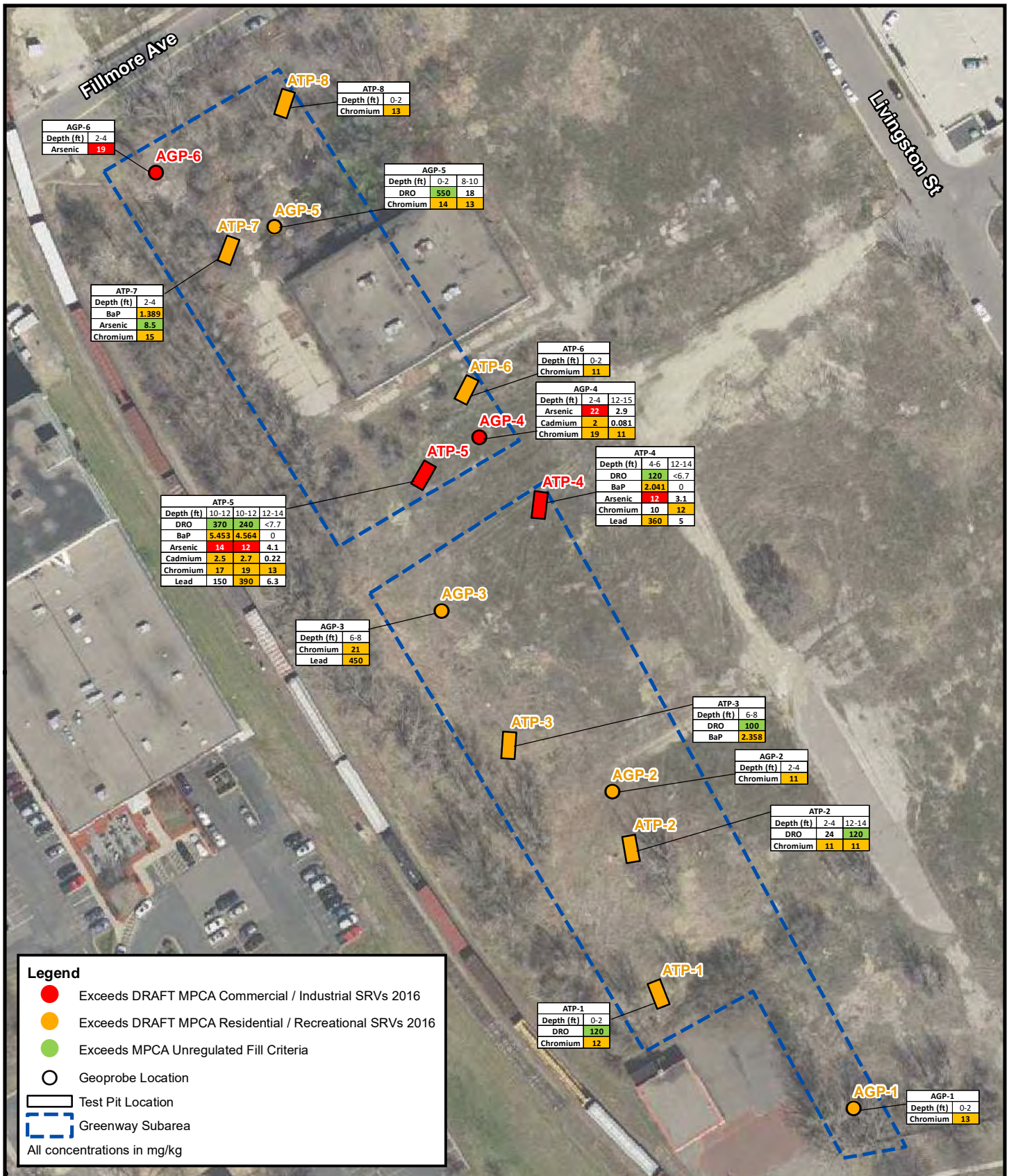


Figure 3
 Test Pit Debris Concentrations
 Sampling and Analysis Technical Report
 West Side Flats Greenway
 St. Paul, Minnesota

Date: 01/05/2017

AET Project No. 03-06069



Map Reference: Metropolitan Council, Surdex Corporation, Digital Orthoimagery, Twin Cities, Minnesota, Spring 2016.

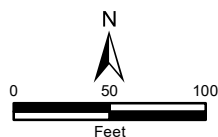


Figure 4
Regulatory Exceedances of Soil Impacts
Sampling and Analysis Technical Report

West Side Flats Greenway
St. Paul, Minnesota

Date: 01/05/2017

AET Project No. 03-06069

Appendix A

Acronyms/Abbreviations and Definitions

ACRONYMS / ABBREVIATIONS AND DEFINITIONS**AET Standard List**

°	degrees Celsius
°	degrees Fahrenheit
%	percent
AAI	EPA All Appropriate Inquiry (§312.10 of 40 CFR 312)
ACM	asbestos containing material
ACWM	asbestos containing waste material
AET	American Engineering Testing, Inc.
AHERA	Asbestos Hazard Emergency Response Act
AST	aboveground storage tank
ASTM	American Society for Testing and Materials (now known only by acronym)
AUL	activity and use limitation
BaPs	benzo(a)pyrene equivalents
BETX	benzene, ethlybenzene, toluene, xylene
bgs	below ground surface
CAP	Corrective Action Plan
CCP	Construction Contingency Plan
CERCLA	Comprehensive Environmental Response, Compensation, Liability Act (Superfund)
CERCLIS	Comprehensive Environmental Response, Compensation, Liability Information System
CESQG	RCRA Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CG	cleanup goal
CGI	combustible gas indicator
COC	MPCA Certificate of Completion
CoC	contaminant of concern
c.o.c.	chain of custody
CORRACTS	RCRA Corrective Actions Information System
cPAH	carcinogenic polynuclear aromatic hydrocarbon
CVOC	chlorinated volatile organic compound
cy or CY	cubic yards
DML	MPCA Dredge Management Level
DRO	diesel range organics ("-Si" indicates silica-gel pretreatment)
EA/EAW	Environmental Assessment [Worksheet]
EC	engineering control
ECP	Emissions Control Plan
ECR	Environmental Construction Report
EDR	Environmental Data Resources, Inc.
EIS	Environmental Impact Statement
EP	Environmental Professional (§312.10 of 40 CFR 312)
EPA	Environmental Protection Agency (also USEPA)
ERNS	Emergency Response Notification System (federal)
ESA	Environmental Site Assessment
EWP	Environmental Work Plan
f/cc	fibers-per-cubic-centimeter
ft	feet

ACRONYMS / ABBREVIATIONS AND DEFINITIONS**AET Standard List**

GEN	RCRA Generator
GIS	geographic information system
GPS	global positioning system
GRO	gasoline range organics
HASP	Health and Safety Plan
HBV	MDH Health Based Value
HIG	Historical Information Gatherers, Inc.
HREC	historical recognized environmental condition
HRL	MDH Health Risk Limit
IC	institutional control
ISV	MPCA Intrusion Screening Value
LAST	leaking aboveground storage tank
LEL	lower explosion limit
lf or LF	lineal feet
LIMS	laboratory information management system
LLP	landowner liability protection
LQG	RCRA Large Quantity Generator
LSI	MPCA Limited Site Investigation
LUST	leaking underground storage tank
MCES	Metropolitan Council Environmental Services
MCL	EPA Maximum Contaminant Level
MDA	Minnesota Department of Agriculture
MDH	Minnesota Department of Health
MDL	method detection limit.
mg/kg	milligrams-per-kilogram
mg/L	milligrams-per-liter
MGS	Minnesota Geological Survey
MMP	Materials Management Plan
MnDOT	Minnesota Department of Transportation
MPCA	Minnesota Pollution Control Agency
MS/MSD	matrix spike/matrix spike duplicate
MSDS	material safety data sheet
MTBE	methyl tert-butyl ether
NA	not assigned or not applicable
NAD	MPCA No Association Determination
ND	no detection
NEPA	National Environmental Protection Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFA	MPCA No Further Action
NFRAP	No Further Remedial Action Planned
NLR	RCRA No Longer Regulated Information System
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List (federal Superfund)
NR	not recorded

ACRONYMS / ABBREVIATIONS AND DEFINITIONS**AET Standard List**

ODI	EPA Open Dump Inventory
OSHA	Occupational Safety and Health Administration
PAH	polynuclear aromatic hydrocarbon
PEL	OSHA Permissible Exposure Limit
PBP	MPCA Petroleum Brownfield Program
PCB	polychlorinated biphenyl
pcm	point count method
PCM	phase-contrast microscopy
PE	Professional Engineer
PEF	potency equivalency factor
PG	Professional Geologist
PID	photoionization detector
PLM	polarized light microscopy
PLP	Permanent List of Priorities (state Superfund)
ppb	parts-per-billion
ppbv	parts-per-billion by volume
PPE	personal protective equipment
ppm	parts-per-million
ppmv	parts-per-million by volume
PRP	MPCA Petroleum Remediation Program
PVOC	petroleum volatile organic compound
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RACM	regulated asbestos containing material
RAI	Response Action Implementation
RAP	Response Action Plan
RCRA	Resource Conservation Recovery Act
REC	recognized environmental condition
RI	MPCA or MDA Remedial Investigation
RL	laboratory reporting limit
ROD	EPA Record of Decision
SHOP	Special Handling Operations Plan
SLV	MPCA Soil Leaching Value
SMP	Soil Management Plan
SOP	standard operating procedure
SPILLS	MPCA Spills inventory
SQG	RCRA Small Quantity Generator
SREC	suspect recognized environmental condition
SRV	MPCA Soil Reference Value
SSP	Site Safety Plan
SVOC	semi-volatile organic compound
SWF/LF	MPCA Solid Waste Facilities/Landfill Sites
TCLP	Toxicity Characteristic Leaching Procedure

ACRONYMS / ABBREVIATIONS AND DEFINITIONS**AET Standard List**

TPH	total petroleum hydrocarbons
TRIS	EPA Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	RCRA Transportation Storage and Disposal inventory
TWA	time-weighted average
µg/kg	micrograms-per-kilogram
µg/l or µg/L	micrograms-per-liter
µg/m ³	micrograms-per-cubic-meter
USEPA	United States Environmental Protection Agency (also EPA)
USGS	United States Geological Survey
UST	underground storage tank
VIC	MPCA Voluntary Investigation and Cleanup Program
VOC	volatile organic compound
WCA	Wetland Conservation Act
XRF	x-ray fluorescence

DEFINITIONS

Controlled recognized environmental condition (CREC): a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimus condition: a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimus conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

Historical recognized environmental condition (HREC): a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Recognized environmental condition (REC): the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.

Appendix B

Report References

References

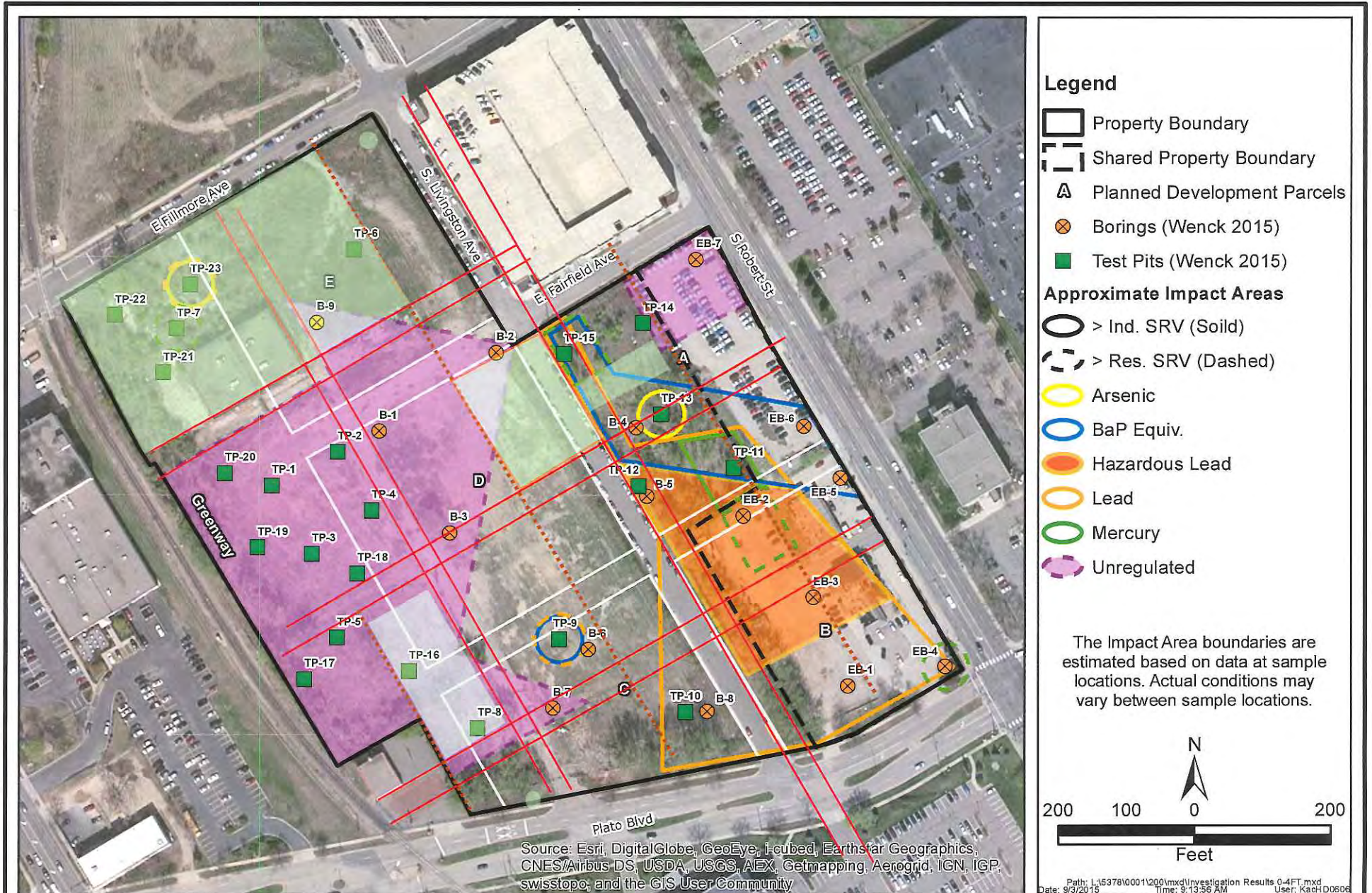
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- *Wenck Associates, draft Phase II Environmental Site Assessment, Fillmore Site, May 2015, Wenck File #B5378-0001 (Wenck draft Phase II ESA)*
- *Wenck Associates, Response Action Plan, Fillmore Site, September 2015, Wenck File #5378-0001 (500) (Wenck RAP)*

Appendix C

Documentation of Historical Conditions and/or Previous
Assessment Results

Table 3
Soil Analytical Results Summary - Soil Borings (July 2015)
Fillmore Redevelopment Site
St. Paul, Minnesota

Compound/Parameter	CAS No.	Sample Identifier and Date Collected							Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)
		EB-1 (2'-7')	EB-2 (2'-6')	EB-3 (3'-6')	EB-4 (2'-6')	EB-5 (4.5'-6')	EB-6 (2'-6')	EB-7 (4'-8')			
		7/2/2015	7/2/2015	7/2/2015	7/2/2015	7/2/2015	7/2/2015	7/2/2015			
Volatile Organic Compounds (VOCs) reported in mg/kg											
Benzene	71-43-2					<0.058			6	10	0.017
Ethylbenzene	100-41-4					<0.058			200	200	1.0
Toluene	108-88-3					<0.058			107	305	2.5
Xylene (Total)	1330-20-7					0.19			45	130	5.4
All other reported VOCs	NE					ND			Various	Various	Various
Polynuclear Aromatic Hydrocarbons (PAHs) reported in mg/kg											
Acenaphthene	83-32-9	<0.0119	0.205	0.135	0.0113	0.350	0.317	<0.0521	1,200	5,260	81
Acenaphthylene	208-96-8	0.0166	<0.0625	<0.0575	<0.0110	0.0678	0.157	<0.0521	NE	NE	NE
Anthracene	120-12-7	0.0151	0.676	0.307	0.0349	0.736	0.771	0.158	7,880	45,400	1,300
Benzo(a)anthracene	56-55-3	0.0597	0.977	0.755	0.0804	2.23	2.70	0.514	c	c	c
Benzo(b)fluoranthene	205-99-2	0.0863	1.33	0.923	0.103	2.70	2.82	0.592	c	c	c
Benzo(k)fluoranthene	207-08-9	0.0363	0.498	0.351	0.0360	0.929	0.838	0.236	c	c	c
Benzo(a)pyrene	50-32-8	0.0617	1.00	0.765	0.0857	2.84	2.51	0.528	c	c	c
Benzo(g,h,i)perylene	191-24-2	0.0450	0.957	0.598	0.0649	2.19	1.37	0.352	NE	NE	NE
Chrysene	218-01-9	0.0810	1.32	0.922	0.0947	2.41	3.14	0.525	c	c	c
Dibenz(a,h)anthracene	53-70-3	0.0127	0.252	0.145	0.0165	0.380	0.405	0.0963	c	c	c
Fluoranthene	206-44-0	0.134	2.35	1.46	0.142	4.13	4.40	0.799	1,090	6,800	670
Fluorene	86-73-7	<0.0119	0.210	0.149	0.0143	0.244	0.300	<0.0521	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	0.0409	0.765	0.493	0.0529	1.40	1.14	0.297	c	c	c
2-Methylnaphthalene	91-57-6								100	369	NE
Naphthalene	91-20-3	<0.0119	0.102	0.0775	<0.0110	0.0633	0.170	<0.0521	10	28	4.5
Phenanthrene	85-01-8	0.0913	2.41	1.23	0.119	2.88	3.23	0.505	NE	NE	NE
Pyrene	129-00-0	0.118	1.91	1.59	0.159	5.59	5.67	0.870	890	5,800	440
BaP Equivalent [c]	NE	0.0920	1.51	1.108	0.123	3.80	3.52	0.751	2	3	1.4
Metals reported in mg/kg											
Arsenic, Total	7440-38-2	<5.1	16.4	7.9	6.0	5.0	<4.3	<4.8	9	20	5.8
Barium, Total	7440-39-3	7.3	1,250	179	109	65.3	52.9	38.8	1,100	18,000	1,700
Cadmium, Total	7440-43-9	0.19	15.2	3.0	1.9	0.27	0.46	0.18	25	200	8.8
Chromium, Total (III+VI)	7440-47-3	10	629	18.8	21.4	10.5	10.4	6.7	44,000(tot.)/87(VI)	100,000(tot.)/650(VI)	1E05(tot.)/36(VI)
Lead, Total	7439-92-1	35.7	5,970	2,970	1,230	87.1	147	12.3	300	700	2,700
Mercury, Total	7439-97-6	0.066	1.3	0.32	0.87	0.24	0.048	0.025	0.5	1.5	3.3
Selenium, Total	7782-49-2	<5.1	<5.2	<4.1	<4.5	<4.8	<4.3	<4.8	160	1,300	2.6
Silver, Total	7440-22-4	<0.51	<2.6	<0.41	<0.45	<0.48	<0.43	<0.48	160	1,300	7.9
Lead by TCLP (in mg/L)	7439-92-1		47.8	35.6	1.1				Hazardous Characteristic = 5 mg/L		
Other Parameters reported in mg/kg											
Diesel Range Organics (DRO)	NE					68.1			NE	NE	NE
Gasoline Range Organics (GRO)	NE					<11.5			NE	NE	NE



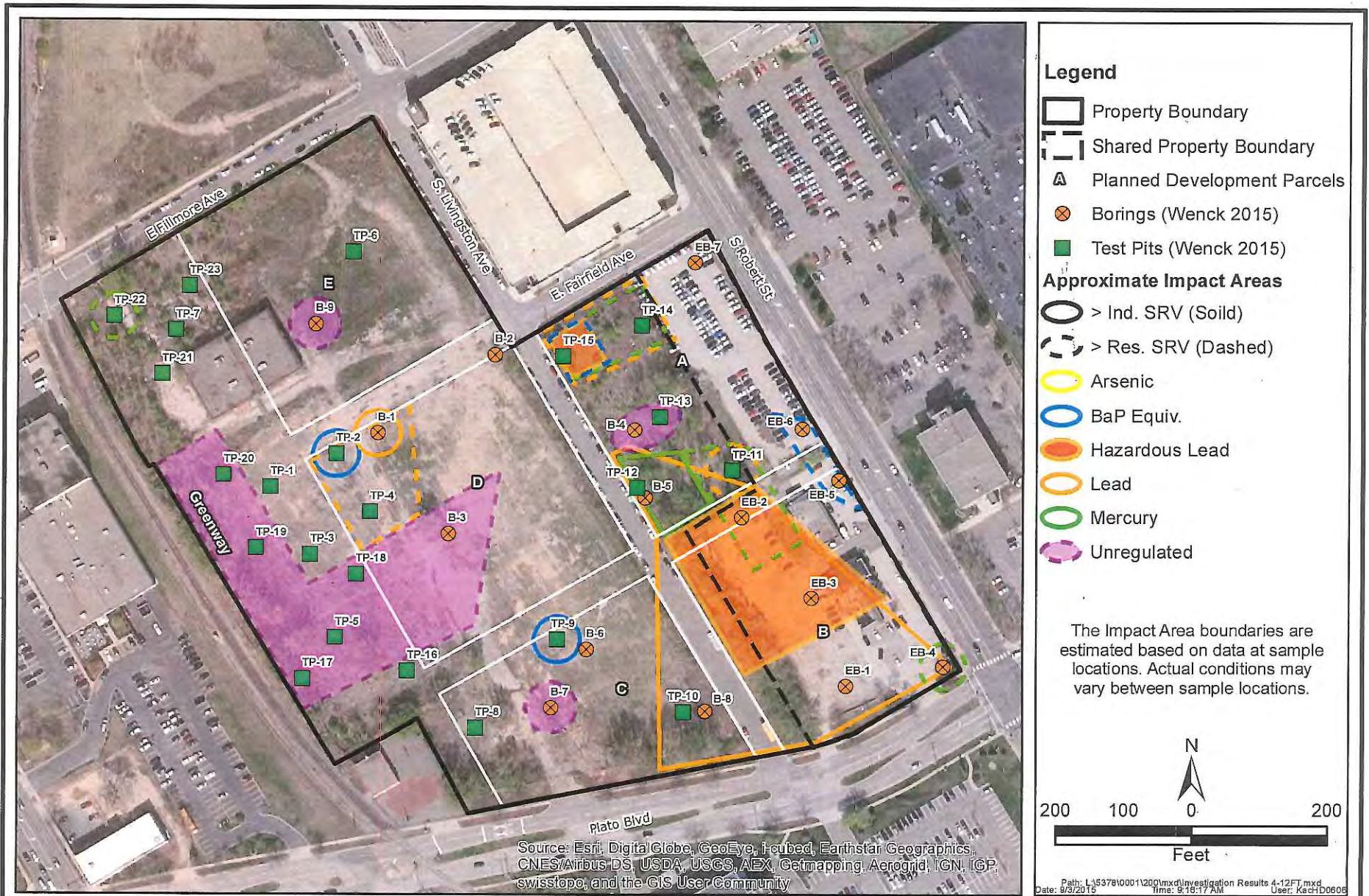
WEIDNER INVESTMENT SERVICES INC.

Investigation Results (0'-4')



SEP 2015

Figure 4A



WEIDNER INVESTMENT SERVICES INC.

Investigation Results (4'-12')



Responsive partner. Exceptional outcomes.

SEP 2015

Figure 4B

Table 1
Soil Analytical Results Summary - Test Pits (April 2015)
Fillmore Redevelopment Site
St. Paul, Minnesota

Compound/Parameter	CAS No.	Sample Identifier and Date Collected																		Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)		
		TP-1A (4) 04/02/15	TP-1B (4) 04/02/15	TP-2A (5) 04/02/15	TP-2B (5) 04/02/15	TP-3A (3) 04/02/15	TP-3B (3) 04/02/15	TP-4A (4.5) 04/02/15	TP-4B (4.5) 04/02/15	TP-5A (4) 04/02/15	TP-5B (4) 04/02/15	TP-6B (3) 04/02/15	TP-7A (4) 04/02/15	TP-7B (4) 04/02/15	TP-8A (4) 04/02/15	TP-8B (4) 04/02/15	TP-9A (5) 04/02/15	TP-9B (5) 04/02/15	TP-10A (6) 04/02/15				TP-10B (6) 04/02/15	
Volatiles Organic Compounds (VOCs) reported in mg/kg																								
Naphthalene	91-20-3			0.165	<0.180																10	28	4.5	
All other reported VOCs																								
Polynuclear Aromatic Hydrocarbons (PAHs) reported in mg/kg																						Various	Various	Various
Acenaphthene	83-32-9	<0.112	<0.112	<0.110	<0.0113	0.0112	<0.0114	<0.0103	<0.120	<0.0110	0.215	<0.106	0.0703	<0.0115	<0.0107	<0.126	<0.123	2.28	<0.0119	<0.0133	1,200	5,260	81	
Acenaphthylene	208-96-8	<0.112	<0.112	0.228	0.0162	0.0116	<0.0114	<0.0103	<0.120	0.0130	<0.109	<0.106	0.0637	<0.0115	<0.0107	0.142	0.228	0.204	<0.0119	<0.0133	NE	NE	NE	
Anthracene	120-12-7	<0.112	<0.112	1.14	0.0184	0.0395	0.0126	<0.0103	<0.120	<0.0110	0.319	0.125	0.207	<0.0115	<0.0107	0.248	0.515	4.17	<0.0119	<0.0133	7,880	45,400	1,300	
Benzo(a)anthracene	56-56-3	<0.112	<0.112	9.95	0.0791	0.161	0.0507	0.0153	<0.120	0.0896	0.0544	1.56	0.446	0.795	0.0358	0.0194	0.913	3.49	8.76	<0.0119	<0.0133	*	*	*
Benzo(b)fluoranthene	205-99-2	<0.112	<0.112	9.12	0.114	0.170	0.0612	0.0231	<0.120	0.0908	0.0535	1.85	0.458	0.782	0.0386	0.0257	1.25	3.37	7.14	<0.0119	<0.0133	*	*	*
Benzo(k)fluoranthene	207-08-9	<0.112	<0.112	5.17	0.0487	0.0823	0.0247	<0.0103	<0.120	0.0485	0.0291	0.850	0.199	0.282	0.0170	<0.0107	0.514	1.44	4.28	<0.0119	<0.0133	*	*	*
Benzo(a)pyrene	50-32-8	<0.112	<0.112	7.96	0.0744	0.143	0.0458	0.0164	<0.120	0.0879	0.0516	1.44	0.392	0.644	0.0325	0.0208	0.921	2.90	6.41	<0.0119	<0.0133	*	*	*
Benzo(g,h)perylene	191-24-2	<0.112	<0.112	4.34	0.0777	0.0598	0.0310	0.0122	<0.120	0.0553	0.0314	0.831	0.204	0.382	0.0203	0.0156	0.732	1.58	3.56	<0.0119	<0.0133	*	*	*
Chrysene	218-01-9	<0.112	<0.112	9.42	0.0906	0.147	0.0516	0.0178	<0.120	0.0637	0.0498	1.54	0.423	0.668	0.0342	0.0217	1.00	2.79	7.38	<0.0119	<0.0133	NE	NE	NE
Dibenz(a,h)anthracene	53-70-3	<0.112	<0.112	1.39	0.0198	0.0214	0.0170	<0.0103	<0.120	0.0120	<0.0110	0.199	<0.106	0.114	<0.0115	<0.0107	0.189	0.491	1.13	<0.0119	<0.0133	*	*	*
Fluoranthene	206-44-0	<0.112	<0.112	19.0	0.115	0.277	0.0873	0.0228	<0.120	0.143	0.0855	3.79	0.829	1.01	0.0592	0.0320	2.23	4.37	13.6	<0.0119	<0.0133	1,080	6,800	670
Fluorene	86-73-7	<0.112	<0.112	<0.110	<0.0113	0.0128	<0.0114	<0.0103	<0.120	<0.0110	<0.0110	0.139	<0.106	0.0662	<0.0115	<0.0107	0.135	0.129	2.13	<0.0119	<0.0133	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	<0.112	<0.112	3.64	0.0639	0.0654	0.0309	<0.0103	<0.120	0.0438	0.0250	0.702	0.181	0.338	0.0163	0.0122	0.635	1.53	3.20	<0.0119	<0.0133	*	*	*
2-Methylnaphthalene	91-57-6	<0.112	<0.112	<0.110	0.116	<0.0111	<0.0114	<0.0103	<0.120	<0.0110	<0.0110	<0.109	<0.106	0.0563	<0.0115	<0.0107	<0.126	<0.123	0.355	<0.0119	0.0248	100	359	NE
Naphthalene	91-20-3	<0.112	<0.112	0.114	0.0813	0.0111	0.0125	<0.0103	<0.120	<0.0110	<0.0110	<0.109	<0.106	0.0563	<0.0115	<0.0107	<0.126	<0.123	0.454	<0.0119	<0.0133	10	28	4.5
Phenanthrene	85-01-8	<0.112	<0.112	3.91	0.110	0.135	0.0510	0.0163	<0.120	0.0401	0.0227	2.14	0.452	0.685	0.0320	0.0193	1.39	1.88	12.2	<0.0119	0.0148	NE	NE	NE
Pyrene	129-00-0	<0.112	<0.112	17.6	0.129	0.261	0.0839	0.0243	<0.120	0.171	0.101	3.41	0.795	1.03	0.0572	0.0338	1.76	4.10	11.8	<0.0119	<0.0133	890	5,800	440
BaP Equivalent [c]	NE	ND	ND	11.6	0.117	0.204	0.0726	0.0204	ND	0.123	0.0583	2.07	0.525	0.935	0.0436	0.0267	1.37	4.19	9.46	ND	ND	2	3	1.4
Metals reported in mg/kg																								
Arsenic, Total	7440-38-2	2.18	4.17	12.5	4.28	1.63	1.28	1.41	1.68	5.56	4.25	3.38	3.53	4.29	3.10	2.91	4.88	4.14	6.05	4.49	5.20	9	20	5.6
Barium, Total	7440-39-3	41.9	47.5	85.1	130	42.5	27.0	30.9	70.0	57.4	65.9	51.7	94.2	51.3	32.8	97.1	130	94.2	229	45.0	1,100	18,000	1,700	
Cadmium, Total	7440-43-9	<3.24	<2.63	<2.63	<3.20	<2.80	<2.80	<2.86	<3.69	<2.97	<3.00	<3.00	<3.29	<3.40	<2.69	<3.53	3.62	<2.85	<12.5	<7.23	25	200	8.8	
Chromium, Total (III+VI)	7440-47-3	15.0	17.3	10.7	10.5	20.0	11.0	14.2	13.7	15.0	17.3	11.4	11.0	11.0	11.0	18.6	15.0	16.2	115	79.8	44,000(tot)/87(VI)	100,000(tot)/650(VI)	1E06(tot)/38(VI)	
Lead, Total	7439-92-1	28.7	37.3	62.5	153	42.5	16.0	19.6	51.1	33.2	29.4	106	88.0	17.5	24.5	<13.4	129	694	542	794	<36.1	300	700	2,700
Mercury, Total	7439-97-6	0.0481	0.104	0.201	0.101	0.193	0.145	0.0207	0.0853	0.106	0.232	0.784	0.756	0.0305	0.325	0.117	<0.0236	<0.0251	0.5	1.5	<0.0236	<0.0251	3.3	
Selenium, Total	7782-49-2	<24.3	<19.8	20.0	<24.0	<21.0	<19.5	<21.4	<27.6	<22.4	<22.5	<22.3	<24.7	<25.5	<20.1	<25.5	<25.8	<21.4	<83.4	<54.2	150	1,300	2.6	
Silver, Total	7440-22-4	<3.24	<2.63	<2.63	<3.20	<2.80	<2.80	<2.86	<3.69	<2.98	<3.00	<2.97	<3.29	<3.40	<2.69	<3.53	<3.57	<2.85	<12.5	<7.23	150	1,300	7.9	
Other Parameters reported in mg/kg																								
Diesel Range Organics (DRO)	NE			126	13.2																NE	NE	NE	

Table 4
Soil Analytical Results Summary - Test Pits (August 2015)
Fillmore Redevelopment Site
St. Paul, Minnesota

Compound/Parameter	CAS No.	Sample Identifier and Date Collected														Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)	
		TP-11 (0'-2') 8/17/2015	TP-11 (6'-8') 8/17/2015	TP-12 (2'-3') 8/17/2015	TP-12 (6'-8') 8/17/2015	TP-13 (0'-2') 8/17/2015	TP-14 (8'-10') 8/17/2015	TP-15 (4'-6') 8/17/2015	TP-15 (10') 8/17/2015	TP-16 (0'-4') 8/17/2015	TP-17 (0'-4') 8/17/2015	TP-19 (0'-4') 8/17/2015	TP-20 (0'-4') 8/17/2015	TP-22 (4'-8') 8/17/2015	TP-23 (0'-2') 8/17/2015				
Polynuclear Aromatic Hydrocarbons (PAHs) reported in mg/kg																			
Acenaphthene	83-32-9	0.439		<0.0525		1.39	0.123		0.110	<0.0109	<0.0108	<0.0529	<0.0115				1,200	5,260	81
Acenaphthylene	208-96-8	<0.289		<0.0525		<0.0524	0.294		0.422	0.0185	0.0291	<0.0529	0.0156				NE	NE	NE
Anthracene	120-12-7	1.34		0.0948		2.26	0.325		0.717	0.0343	0.0476	0.0924	0.0241				7,880	45,400	1,300
Benzo(a)anthracene	56-55-3	3.71		0.222		3.02	0.751		2.15	0.117	0.198	0.349	0.133				c	c	c
Benzo(b)fluoranthene	205-99-2	4.87		0.476		3.28	0.751		2.37	0.147	0.280	0.482	0.201				c	c	c
Benzo(k)fluoranthene	207-08-9	1.94		0.128		1.26	0.360		1.22	0.0734	0.128	0.168	0.0732				c	c	c
Benzo(a)pyrene	50-32-8	3.70		0.283		2.75	0.653		2.13	0.135	0.232	0.372	0.158				c	c	c
Benzo(g,h,i)perylene	191-24-2	2.73		0.489		1.64	0.390		1.40	0.122	0.160	0.233	0.138				c	c	c
Chrysene	218-01-9	3.86		0.255		2.98	0.763		2.19	0.127	0.232	0.352	0.141				NE	NE	NE
Dibenz(a,h)anthracene	53-70-3	0.725		0.0843		0.529	0.131		0.416	0.0274	0.0436	0.0716	0.0343				c	c	c
Fluoranthene	206-44-0	7.71		0.431		7.15	1.33		3.76	0.178	0.410	0.695	0.220				c	c	c
Fluorene	86-73-7	0.401		<0.0525		1.10	0.118		0.193	<0.0109	0.0119	<0.0529	<0.0115				1,080	6,800	670
Indeno(1,2,3-cd)pyrene	193-39-5	2.27		0.307		1.62	0.355		1.22	0.0790	0.133	0.209	0.101				850	4,120	110
2-Methylnaphthalene	91-57-6																c	c	c
Naphthalene	91-20-3	<.289		<0.0525		0.369	0.0526		0.0620	<0.0109	<0.0108	<0.0529	<0.0115				100	369	NE
Phenanthrene	85-01-8	4.14		0.256		7.82	1.04		2.30	0.0809	0.169	0.303	0.0728				10	28	4.5
Pyrene	129-00-0	6.51		0.388		6.34	1.25		3.84	0.191	0.390	0.641	0.239				NE	NE	NE
BaP Equivalent [c]	NE	5.42		0.446		3.99	0.956		3.08	0.193	0.333	0.537	0.230				890	5,800	440
Metals reported in mg/kg																			
Arsenic, Total	7440-38-2	18.9	17.9	11.9	<4.7	26.4	13.2	10.5	5.7	<5.2	4.2	<4.8	<5.5	5.2	25.0		2	3	1.4
Barium, Total	7440-39-3	1,230	173	377	74.6	65.7	145	152	266	54.6	61.7	51.7	90.5	62.9	116	9	9	20	5.8
Cadmium, Total	7440-43-9	41.1	2.3	6.3	1.1	<0.57	1.3	0.88	1.4	<0.78	<0.59	<0.72	<0.83	<0.74	4.7	1,100	18,000	1,700	
Chromium, Total (III+VI)	7440-47-3	109	14.5	34.3	12.2	10.9	21.6	15.1	17.7	11.1	10.1	9.1	9.3	10	28.2	25	200	8.8	
Lead, Total	7439-92-1	6,350	580	1,320	322	70.3	328	438	5,220	52.9	65.7	81.9	112	158	348	44,000(tot.)/87(VI)	100,000(tot.)/650(VI)	1E08(tot.)/36(VI)	
Mercury, Total	7439-97-6	7.3	0.58	0.19	2.2	0.051	0.80	0.44	0.54	0.090	0.15	0.32	0.41	0.77	0.34	300	700	2,700	
Selenium, Total	7782-49-2	<5.3	<5.7	<4.7	<4.7	<3.8	<5.3	<4.9	<4.5	<5.2	<3.9	<4.8	<5.5	<4.9	<4.4	0.5	0.5	1.5	3.3
Silver, Total	7440-22-4	10.5	<2.8	<2.4	<2.4	<1.9	<2.7	<2.4	<2.2	<2.6	<2.0	<2.4	<2.8	<2.5	<2.2	160	1,300	2.6	
Metals by Toxicity Characteristic Leaching Procedure (TCLP) reported in mg/L																			
Arsenic, Total	7440-38-2	<0.10																	
Barium, Total	7440-39-3	4.5																	
Cadmium, Total	7440-43-9	0.51																	
Chromium, Total (III+VI)	7440-47-3	<0.050																	
Lead, Total	7439-92-1	56.7	2.7	8.5	0.39		0.090	0.25	6.7										
Mercury, Total	7439-97-6	<0.60											<0.050		0.072				
Selenium, Total	7782-49-2	<0.10																	
Silver, Total	7440-22-4	<0.050																	
Other Parameters reported in mg/kg																			
Diesel Range Organics (DRO)	NE					38.7			149	<10.9	21.1	18.1	13.2				NE	NE	NE

Appendix D

Environmental Sampling Methods

ENVIRONMENTAL SAMPLING METHODS – GENERAL: EXCAVATIONS/TEST PITS, HAND AUGERS, SURFICIAL SOILS, STOCKPILES

Site Safety Issues

Safety is of paramount importance on construction, demolition, or other high-traffic sites with potentially unstable ground. Frequent visual and verbal contact is maintained with operators of heavy equipment in the sampling vicinity. Care is taken not to enter depressions or scale mounds that would constitute confined spaces, where engulfment, immersion, or falls are possible, or where harmful vapors may collect. Most observations and soil collection are performed from a stable and level ground surface with the help of heavy equipment operated by an excavation contractor.

Contamination Reduction

Sampling devices (except heavy equipment in most cases) are cleaned between sampling points to minimize cross contamination. The cleaning procedure may consist of an alconox detergent-water wash using a brush, followed by a tap water rinse. Certain types of projects may entail more or less stringent decontamination procedures.

Soil Collection

Most soil samples from excavations or test pits are collected directly from heavy equipment (e.g., excavation bucket, loader, or bulldozer), giving preference to soils that have not touched the equipment. A hand auger is used to complete shallow soil borings in locations of limited vehicle access. Hand auger borings are advanced manually, typically in 6" to 12" depth intervals. Soils are collected directly from the hollow auger barrel. A spade shovel is used to collect surficial soils (i.e., up to 6" depth). In many cases, soil samples can be collected by hand without added equipment.

Impacted soils or buried debris may be present in the ground that are not observed due to the spacing and depths of sampling points. Best judgment determinations, based on known site conditions and past experience in similar situations, do not guarantee identification or removal of all impacts.

Soil Classification

As the samples are obtained in the field, they are visually and manually classified by the field staff. Representative portions of the samples may be returned to the laboratory for further examination and for verification of the field classification. Soil classifications, visual/odor observations, and information on any groundwater encountered are reported on the Soil Screening Data Sheet or other field notes.

Soil Sample Vapor Screening

Soil samples collected directly or from equipment are screened with a photoionization detector (PID) for the presence of organic vapors with ionization potentials less than the lamp voltage. The PID is calibrated for direct reading in parts-per-million-volume (PPMv) of a benzene equivalent. Soil samples are collected and screened according to the bag-headspace field screening procedure, which consists of placing freshly collected soil into a polyethylene Whirl-Pak or freezer "baggie" (i.e., bag), sealing the bag to contain an air pocket (i.e., headspace), and allowing 10 to 20 minutes for vapors to disperse from the soil to the headspace. The highest reading upon inserting the PID probe into the bag headspace – typically attained within two to five seconds of probe insertion – is recorded on the Soil Screening Data Sheet or other field notes. Excessive moisture, temperature extremes, ambient vapors, or other unusual field circumstances can affect screening results.

Other Field Screening

For certain sites, field screening may be conducted for additional parameters in accordance with AET's Field Screening Methods Supplemental information sheet.

Soil Sampling for Chemical Analysis

Soil samples obtained for chemical analysis are collected directly or from the sampling device into laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

ENVIRONMENTAL SAMPLING METHODS – PUSH PROBES

Contamination Reduction

The push-probe down hole tooling is steam cleaned prior to mobilization. New clear plastic liners are used for each drive, and the tooling is cleaned between borings to minimize cross contamination. The cleaning procedure consists of analconox detergent-water wash using a brush, followed by a tapwater rinse. Thealconox wash and rinse water are changed regularly – typically between borings. Certain types of projects may entail more stringent decontamination procedures.

Soil Boring Advancement and Limitations

Soil sampling in the soil borings is performed using a Geoprobe® system. Soil borings are advanced using a vehicle-mounted, hydraulically-powered, soil probing machine, which uses static force (vehicle weight) and percussion to advance small-diameter sampling tools into the subsurface for collecting soil core, soil gas, or groundwater samples. Using this system, a 2" outer-diameter (OD) MacroCore® soil sampler containing a 1.75" OD clear plastic liner is driven into the soil in distinct 48" depth intervals, except where subsurface conditions limit the equipment to shorter drive lengths. In cases where soil recovery is poor, typically due to grain-size or moisture, a smaller “discrete” soil sampler (1.5" OD containing a 1.0" OD clear plastic liner) with a retractable piston tip may be used to collect soil in distinct 24" depth intervals. Probe rods are added to extend borings deeper beneath the surface. The plastic liner is removed from the sampler and cut lengthwise to expose discrete sections of soil for classification and sampling.

Unless actually observed, contacts between soil layers are estimated based on the spacing of samples and the action of the push-probe system. Cobbles, boulders, and other large objects generally cannot be recovered from push-probe soil borings, and may be present in the ground even if they are not noted on the boring logs. Impacted soils or buried debris may be present that are not observed due to the spacing and depths of sampling points. Best judgment determinations, based on known site conditions and past experience in similar situations, do not guarantee identification of all impacts.

Soil Classification

As the samples are obtained in the field, they are visually and manually classified by the field staff. Representative portions of the samples may be returned to the laboratory for further observation and for verification of the field classification. Logs of the borings are prepared indicating the depth and identification of the various strata, water level information, and other pertinent information regarding the method of advancing the borings. A chart illustrating the descriptive terminology and symbols used on the borings logs is also provided.

Boring logs include judgments of the geologic depositional origin. This judgment is primarily based on observations of the soil samples, which can be limited. Observations of the surrounding topography, vegetation, and development can sometimes aid this judgment. Visual/odor observations may aid in assessing impacts but are not relied on exclusively.

Soil Sample Vapor Screening

Soil samples collected directly from the sampling liner are screened with a photoionization detector (PID) for the presence of organic vapors with ionization potentials less than the lamp voltage. The PID is calibrated for direct reading in parts-per-million-volume (PPMv) of a benzene equivalent. Soil samples are collected and screened according to the bag-headspace field screening procedure, which consists of placing freshly collected soil into a polyethylene Whirl-Pak or freezer “baggie” (i.e., bag), sealing the bag to contain an air pocket (i.e., headspace), and allowing 10 to 20 minutes for vapors to disperse from the soil to the headspace. The highest reading upon inserting the PID probe into the bag headspace – typically attained within two to five seconds of probe insertion – is recorded on the boring log. Excessive moisture, temperature extremes, ambient vapors, or other unusual field circumstances can affect screening results.

Other Field Screening

For certain sites, field screening may be conducted for additional parameters in accordance with AET’s Field Screening Methods Supplemental information sheet.

Soil Sampling for Chemical Analysis

Soil samples obtained for chemical analysis are collected directly from the sampling liner and placed into laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

ENVIRONMENTAL SAMPLING METHODS – PUSH PROBES

Water Level Measurements

The groundwater level measurements are shown at the bottom of the boring logs. The following information appears under Water Level Measurements on the logs:

- Date and time of measurement
- Sampled Depth: greatest depth of soil sampling at the time of measurement
- Cave-in Depth: tape-measured depth of borehole
- Water Level: tape-measured depth of free water in the borehole

The true depth of the water table at the boring locations may be different from the water levels measured in the boreholes. This is possible because several factors can affect the water level measurements in the borehole such as permeability of each soil layer in profile, presence of perched water, amount of time between water-level readings, and weather conditions.

Groundwater Sampling for Chemical Analysis

Groundwater sampling in the boreholes/temporary monitoring wells is performed using a Geoprobe® system. Using this system, a 1.5" OD groundwater sampler with a 41" stainless-steel or PVC screen is driven into the soil to the desired sampling depth using static and percussive forces. The operation of extension rods through the hollow interior of the probe rods enables advancement of the screen beyond the depth of the probe rods while maintaining a closed system above the desired sampling depth.

Using a peristaltic pump or check-valve assembly, samples are pumped directly from the screen through new polyethylene tubing extended to depth through the probe rods. Samples are collected in laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. For analyses in which field-filtering is performed, samples are vacuum-filtered through a new dedicated plastic filter with 0.45- μ m pores. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

Because boreholes are not typically in equilibrium with ambient groundwater, results provide qualitative groundwater data. Purging additional water prior to sampling may improve the data representativeness somewhat. Monitoring wells are necessary to obtain more accurate quantitative groundwater data.

Soil Vapor Probes

For assessment of vapor encroachment or intrusion into structures, soil vapor sampling is performed using a Geoprobe® system. A 1.25" OD retractable rod with soil vapor adaptor tip is driven into the soil to the desired sampling depth (typically basement floor or base-of-foundation) using static and percussive forces. New polyethylene tubing is attached to the tip, and the rods are retracted approximately 6", creating a closed system. Air samples are pumped through the tubing, and collected in either summa canisters or tedlar bags, as approved by regulatory authorities. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

As appropriate, bore holes are stabilized in relative equilibrium with air in soil void spaces by removing a minimum of two borehole volumes of air as measured by a flow gauge. Due to the actions of push-probe tools, potential surface leakage, and diffusion from surrounding soils, air samples may not attain equilibrium with the air in soil void spaces; this method is considered a screening measurement.

Boring Elevations, Locations, and Abandonment

Following sampling, ground surface elevations at boring locations are typically measured to the nearest 0.1 foot. If a permanent benchmark of known elevation is unavailable, the measurement is referenced to a nearby temporary benchmark given the arbitrary reference elevation of 100.0 feet. Horizontal location control is typically based on tape measurements from fixed site features. Certain types of projects may entail more stringent measures such as global positioning systems (GPS) or contracting registered surveyors.

Boreholes/temporary monitoring wells are abandoned using appropriate grouting materials and methods. Licensed well contractors on staff ensure compliance with state and local standards.

Appendix E

Subsurface Boring Logs and Sealing Records



**AMERICAN
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TESTING, INC.**

SUBSURFACE BORING LOG

AET No: 03-06069

Log of Boring No. AGP-1 (p. 1 of 1)

Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly sand, dark brown, trace gravel	FILL		M							0.1
2											
3	FILL, mostly clay			M							0.1
4	FILL, mostly sand with some gravel, brown, moist										
5				M							0.3
6											
7				M							0.7
8											
9	CLAY, dark brown (CL)			M							0.9
10	POORLY GRADED SAND, brown, medium grained (SP)	COARSE ALLUVIUM		▼							
11				W							0.9
12											
13											
14				W							0.9
15	END OF BORING										

Draft

AET_CORP_03-06069.GPJ AET+CPT+WELL.GDT 1/6/17

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/18/16							10'
BORING COMPLETED: 11/18/16									
DR:	LG:	Rig:							



**AMERICAN
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SUBSURFACE BORING LOG

AET No: 03-06069

Log of Boring No. AGP-2 (p. 1 of 1)

Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly sand with brick, concrete at 3-4'	FILL		M							0.4
2											
3				M					0.3		
4				M							
5	POORLY GRADED SAND, medium grained, brown, moist (SP)	COARSE ALLUVIUM		M							1.7
6											
7				M					1.9		
8				M							
9				M							2.3
10	SILTY CLAY (CL)										
11	POORLY GRADED SAND, moist, brown (SP)			M							0.9
12					M						
13				M/W							1.9
14											
15	END OF BORING										

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AET_CORP 03-06069.GPJ AET+CPT+WELL.GDT 1/6/17

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/18/16							15'
BORING COMPLETED: 11/18/16									
DR:	LG:	Rig:							



**AMERICAN
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TESTING, INC.**

SUBSURFACE BORING LOG

AET No: 03-06069 Log of Boring No. AGP-3 (p. 1 of 1)
 Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly sand, trace gravel, brown	FILL		M								0.1
2												
3				M								1.5
4	FILL, mostly sand, dark brown, concrete, brick											
5	FILL, mixture of sand, ash, clinkers			M								1.2
6												
7				M								1.4
8												
9				M								0.0
10	SILTY CLAY, gray, firm (CL)	FINE ALLUVIUM										
11	SILTY SAND, gray, fine grained (SM)	COARSE ALLUVIUM		M								0.0
12												
13												
14	POORLY GRADED SAND, medium to fine grained, light gray (SP)											0.0
15	END OF BORING											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/18/16							14'
BORING COMPLETED: 11/18/16									
DR:	LG:	Rig:							

AET_CORP_03-06069.GPJ AET+CPT+WELL.GDT 1/6/17



**AMERICAN
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SUBSURFACE BORING LOG

AET No: 03-06069

Log of Boring No. AGP-4 (p. 1 of 2)

Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly sand with concrete/brick, brown	FILL		M							0.0	
2	FILL, sand with brick, trace ash/concrete, dark brown			M								0.0
3				M								0.0
4				M							0.0	
5				M							0.0	
6	FILL, mostly sand with some ash, brown	FILL		M							0.0	
7				M								0.0
8				M								0.0
9				M							0.0	
10				M							0.0	
11	POORLY GRADED SAND, medium grained, brown (SP)	COARSE ALLUVIUM		M							0.0	
12				M/W								0.0
13				M/W							0.0	
14				M/W							0.0	
15	SILTY SAND, fine to medium grained, dark brown (SM)	FINE ALLUVIUM		M							0.0	
16	SILTY CLAY, brown (CL)			M								0.0
17				M								0.0
18				M							0.0	
19				M							0.0	
20				M							0.0	
21				M							0.0	

DRAFT

AET_CORP 03-06069.GPJ AET-CPT+WELL.GDT 1/6/17

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/18/16							15'
BORING COMPLETED: 11/18/16									
DR:	LG:	Rig:							



**AMERICAN
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TESTING, INC.**

SUBSURFACE BORING LOG

AET No: 03-06069 Log of Boring No. AGP-4 (p. 2 of 2)
 Project: West Side Flats;

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
23	SILTY CLAY, brown (CL) (continued)	FINE ALLUVIUM (continued)		M							0.0
24			M								
25											
26	END OF BORING										

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AET CORP 03-06069.GPJ AET+CPT+WELL.GDT 1/6/17



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TESTING, INC.**

SUBSURFACE BORING LOG

AET No: 03-06069 Log of Boring No. AGP-5 (p. 1 of 1)
 Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly brick and concrete with some sandy silt, dark brown, moist	FILL		M							0.0	
2				M							0.0	
3				M								0.0
4	FILL, mostly sand with concrete, gravel, brown, wet			M							0.0	
5				M							0.0	
6				▼								0.0
7				M								0.0
8				W								0.0
9	END OF BORING											
10												

Draft

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/18/16							6'
BORING COMPLETED: 11/18/16									
DR:	LG:	Rig:							

AET CORP 03-06069.GPJ AET+CPT+WELL.GDT 1/6/17



**AMERICAN
ENGINEERING
TESTING, INC.**

SUBSURFACE BORING LOG

AET No: 03-06069 Log of Boring No. AGP-6 (p. 1 of 1)
 Project: West Side Flats;

DEPTH IN FEET	Surface Elevation _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly silt, trace ash/brick, dark brown	FILL		M								0.2
2	FILL, mostly sand, brown, moist, trace brick, trace ash			M								0.1
3				M								0.1
4				M								0.1
5				M								0.1
6				M								0.1
7				M								0.1
8	POORLY GRADED SAND, moist, brown, medium grained (SP)	COARSE ALLUVIUM		M								0.1
9				M								0.1
10				M								0.1
11				M								0.1
12				M								0.1
13				M								0.1
14				▼								0.1
15				W								0.1
16				W								0.1
17	SANDY LEAN CLAY, gray/brown, moist (CL)			W								0.1
18												
19	END OF BORING											

Draft

AET CORP 03-06069.GPJ AET+CPT+WELL.GDT 1/6/17

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	
		11/18/16						14'
BORING COMPLETED: 11/18/16								
DR:	LG:	Rig:						

WELL OR BORING LOCATION
 County Name
Ramsey

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING SEALING RECORD
 Minnesota Statutes, Chapter 103I

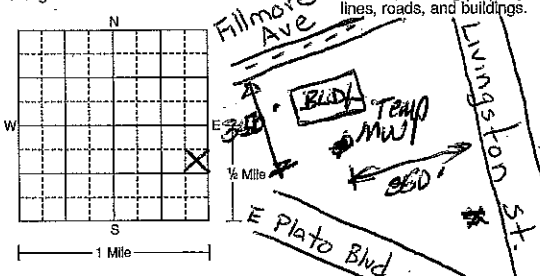
Minnesota Well and Boring Sealing No.
 Minnesota Unique Well No. or W-series No.
 (Leave blank if not known)

H 343932

Township Name **St. Paul** Township No. **28** Range No. **22W** Section No. **Los** Fraction (sm. → lg) **SE 1/4 N 1/4 SE**
 Date Sealed **11-16-16 and 11-17-16** Date Well or Boring Constructed **11-16-16 and 11-17-16**

GPS LOCATION - decimal degrees (to four decimal places)
 Latitude **44.939348** Longitude **-93.086015**
 Depth Before Sealing **26** ft. Original Depth **26** ft.

Numerical Street Address or Fire Number and City of Well or Boring Location
0 Fillmore Ave St. Paul, MN 55107
 Show exact location of well or boring in section grid with "X".
 Sketch map of well or boring location, showing property lines, roads, and buildings.



AQUIFER(S)
 Single Aquifer Multi-aquifer
 WELL/BORING
 Water-Supply Well Monit. Well
 Env. Bore Hole Other **Temp Wells**

STATIC WATER LEVEL
 Measured Estimated Date Measured **11-17-16**
15 ft. below above land surface

CASING TYPE(S)
 Steel Plastic Tile Other
 WELLHEAD COMPLETION
 Outside: Well House At Grade Pitless Adapter/Unit Well Pit Other
 Inside: Basement Offset Well Pit Buried Other
N/A

PROPERTY OWNER'S NAME/COMPANY NAME
City of St. Paul
 Property owner's mailing address if different than well location address indicated above
**25 W. Fourth St. 1400 City Hall Annex
 St. Paul, MN 55102**

CASING(S)
 Diameter **2** in. from **0** to **26** ft. Depth **26** ft. *casing removed on completion*
 Set in oversize hole? Yes No Annular space initially grouted? Yes No Unknown

WELL OWNER'S NAME/COMPANY NAME
City of St. Paul
 Well owner's mailing address if different than property owner's address indicated above

SCREEN/OPEN HOLE
 Screen from **15** to **26** ft. Open Hole from **15** to **26** ft. *screen removed on completion*

OBSTRUCTIONS
 Rods/Drop Pipe Check Valve(s) Debris Fill No Obstruction

Obstructions removed? Yes No Describe

PUMP
 Type
 Removed Not Present Other

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:
 No Annular Space Exists Annular Space Grouted with Tremie Pipe Casing Perforation/Removal

Grouting Material **Bentonite** from **0** to **26** ft. **1/2** yards **1/2** bags

VARIANCE
 Was a variance granted from the MDH for this well? Yes No TN#

OTHER WELLS AND BORINGS
 Other unsealed and unused well or boring on property? Yes No How many?

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION
 This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING
**AET Proj No: 03-06069
 PM: Trey Howard**

American Engineering Testing, Inc. **1795**
 Licensee Business Name License or Registration No.

Bill Tomczyk **737** **12/13/16**
 Certified Representative Signature Certified Rep. No. Date

MINN. DEPT OF HEALTH COPY **H 343932**
 Name of Person Sealing Well or Boring

AET Project No. 03-06069

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING SEALING RECORD
Minnesota Statutes, Chapter 103I

Minnesota Well and Boring
Sealing No.
Minnesota Unique Well No.
or W-series No.
(Leave blank if not known)

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H 305620

272154 ER

WELL OR BORING LOCATION
County Name
Beaumont

Township Name *St. Paul* Township No. *28* Range No. *28* Section No. *5* Fraction (sm. -> lg.) *MINNEDU*

Date Sealed *7-2-12*

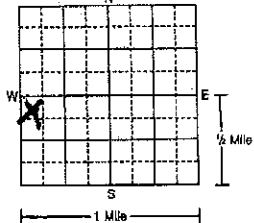
Date Well or Boring Constructed

GPS LOCATION: Latitude _____ degrees _____ minutes _____ seconds
Longitude _____ degrees _____ minutes _____ seconds

Depth Before Sealing _____ ft. Original Depth _____ ft.

STATIC WATER LEVEL
 Measured Estimated Date Measured *7-2-12*

Numerical Street Address or Fire Number and City of Well or Boring Location
50 Fillmore St. St. Paul, MN 55102
Show exact location of well or boring in section grid with "X."
Sketch map of well or boring location, showing property lines, roads, and buildings.



AQUIFER(S)
 Single Aquifer Multi-aquifer
WELL/BORING
 Water-Supply Well Monit. Well
 Env. Bore Hole Other _____

CASING TYPE(S)
 Steel Plastic Tile Other _____

WELLHEAD COMPLETION
Outside: Well House At Grade Pitless Adapter/Unit Well Pit Other _____
Inside: Basement Offset Buried Other _____

PROPERTY OWNER'S NAME/COMPANY NAME
Washington/Beaumont Associates LLC
Property owner's mailing address if different than well location address indicated above
*90 S. First St, Ste 4300
Minneapolis, MN 55402*

CASING(S)
Diameter *10* in. from *6* to *93* ft. Set in oversize hole? Yes No Annular space initially grouted? Yes No Unknown

WELL OWNER'S NAME/COMPANY NAME
Beaumont Associates LLC
Well owner's mailing address if different than property owner's address indicated above

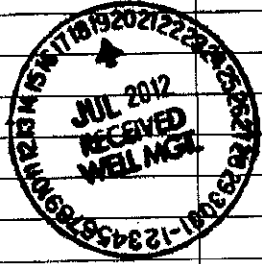
SCREEN/OPEN HOLE
Screen from _____ to _____ ft. Open Hole from *93'* to *220'* ft.

GEOLOGICAL MATERIAL COLOR HARDNESS OR FORMATION FROM TO

OBSTRUCTIONS
 Rods/Drop Pipe Check Valve(s) Debris Fill No Obstruction
Type of Obstructions (Describe) *Brick & misc cement*
Obstructions removed? Yes No Describe *Drill & Bail out*

If not known, indicate estimated formation log from nearby well or boring.

PUMP
Type
 Removed Not Present Other _____



METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:
 No Annular Space Exists Annular Space Grouted with Tremie Pipe Casing Perforation/Removal
10 in. from *93'* to *Surface* ft. Perforated Removed
Type of Perforator *hydraulic*

GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)
Grouting Material *Heat cement* from *220'* to *Surface* *10* yards _____ bags
Pucc Rock from *220'* to *93'* *1/2* yards _____ bags

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

OTHER WELLS AND BORINGS
Other unsealed and unused well or boring on property? Yes No How many? _____

MINN. DEPT. OF HEALTH COPY
29990T
H 305620

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION
This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.
Bergerson - Coaswell Licensee Business Name
John W. Hennell Certified Representative Signature
287 Certified Rep. No. *7-18-12* Date
Eugene Duorak Name of Person Sealing Well or Boring *7-2-12*



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-1 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly silty sand with roots and debris, fine to medium grained, brown	FILL		M	TP							0.0
2												
3												
4	FILL, mostly sand with silt and roots, fine to medium grained, brown			M	TP							0.0
5												
6	END OF TEST PIT											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-6	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-2 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly sand with silt, a little gravel, roots and debris, fine to medium grained, brown	FILL		M	TP						0.0
2											
3			M								
4											
5			M								
6											
7			M								
8	FILL, mostly clayey sand with a little gravel, debris, fine to medium grained, gray to black			M	TP						0.0
9											
10											
11			M								
12											
13	M									0.0	
14	SAND WITH SOME SHELLS, fine to medium grained, brown (SP)	COARSE ALLUVIUM		M	TP						0.0
15											
16	END OF TEST PIT										

DEPTH: 0-16'	DRILLING METHOD: Test Pit	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		11/16/16							16.0
BORING COMPLETED: 11/16/16									
DR: JD	LG: JL	Rig:							



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: **03-06069**

LOG OF BORING NO. **ATP-3 (p. 1 of 1)**

PROJECT: **West Site Flats, St. Paul, MN**

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly sand with silt and a little debris, fine to medium grained, brown	FILL			TP							0.0
2												
3												
4	FILL, mostly sand, fine to medium grained, brown, pockets of silty sand				TP							0.0
5												
6	FILL, mostly sand with silt and debris, fine to medium grained, light brown to dark brown				TP							0.0
7												
8	SAND WITH SILT TO SILTY SAND, fine grained, dark brown (SP) (possible fill)	COARSE ALLUVIUM OR FILL			TP							0.0
9												
10	SAND WITH SHELLS, fine to medium grained, brown (SP)	COARSE ALLUVIUM			TP							0.0
11												
12	END OF TEST PIT											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-12'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: **03-06069**

LOG OF BORING NO. **ATP-3a (p. 1 of 1)**

PROJECT: **West Site Flats, St. Paul, MN**

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly sand, medium to fine grained, brown	FILL			M	TP						0.0
2												
3												
4												
5	FILL, mostly sand with debris, dark brown				M	TP						0.0
6												
7												
8	SILTY CLAY WITH ORGANICS, gray, organic odor (CL)	FINE ALLUVIUM			M	TP						0.2
9												
10	END OF TEST PIT											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-10'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-4 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly sand with silt, debris, fine to medium grained, brown	FILL		M	TP						0.0
2	FILL, mostly silty sand, fine to medium grained, dark brown, debris		M	TP							0.7
3											
4	FILL, mostly debris with some sand, dark brown to gray to black		M	TP							0.5
5											
6	FILL, mostly sand with sandstone inclusions or foundry sand, fine to medium grained, light brown		M	TP							0.3
7											
8	FILL, mostly sand with sandstone inclusions or foundry sand, fine to medium grained, light brown		M	TP							0.0
9											
10	SILTY SAND, fine to medium grained, dark brown with foundry sand (SM)		FINE ALLUVIUM OR FILL		M	TP					
11											
12	SANDY SILT WITH ORGANICS, gray, organic odor (SP-SM)	FINE ALLUVIUM		M	TP						0.3
13											
14	END OF TEST PIT										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-14'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-5 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly sand with silt, fine grained, brown	FILL		M	TP						0.0
2	FILL, mostly silty sand with debris			M	TP						0.0
3				M	TP						0.0
4	FILL, mostly debris with sand, brown to black			M	TP						0.0
5				M	TP						0.0
6				M	TP						0.0
7				M	TP						0.0
8				M	TP						0.0
9				M	TP						0.0
10				M	TP						0.0
11				M	TP						0.0
12	SILTY SAND, fine grained, brown (SM)	COARSE ALLUVIUM		M	TP						0.0
13				M	TP						0.0
14	END OF TEST PIT										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-14'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
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TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-6 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly silty sand with a little debris, fine to medium grained, dark brown, roots	FILL		M	TP						0.1
2											
3			M	TP					0.0		
4											
5			M	TP					0.0		
6											
7			M	TP					0.1		
8	SAND, a little gravel and shells, roots, fine to coarse grained, brown (SP)	COARSE ALLUVIUM									
9			M	TP				0.1			
10	END OF TEST PIT)										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-10'	Test Pit								

BORING COMPLETED: **11/16/16**
 DR: **JD** LG: **JL** Rig:



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-7 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	PID (ppm)	
1	FILL, mostly silty sand with debris, fine to medium grained, dark brown	FILL			TP							0.0
2												
3												
4	SAND WITH SILT, fine grained, brown, some shells (SP-SM) (possible fill)	COARSE ALLUVIUM OR FILL			TP							0.0
5												
6	SAND WITH SOME SHELLS, fine grained, brown (SP)	COARSE ALLUVIUM			TP							0.0
7												
8	END OF TEST PIT											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-8'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									



**AMERICAN
ENGINEERING
TESTING, INC.**

TEST PIT LOGS

AET JOB NO: 03-06069 LOG OF BORING NO. ATP-8 (p. 1 of 1)
 PROJECT: West Site Flats, St. Paul, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	PID (ppm)
1	FILL, mostly silty sand, a little debris, fine to medium grained, dark brown	FILL		M	TP						0.0
2	FILL, mostly silty sand, a little gravel, fine to medium grained, brown		M	TP						0.0	
3			M	TP							
4	FILL, mostly silty sand, fine to coarse grained, dark brown		M	TP						0.1	
5			M	TP							
6	SANDY SILT WITH ROOTS THEN SAND, fine to medium grained, light brown (ML) (possible fill)	COARSE ALLUVIUM OR FILL		M	TP						0.1
7			M	TP							
8	SAND, fine to medium grained, light brown (SP) (possible fill)		M	TP						0.0	
9											
10	END OF TEST PIT										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
0-10'	Test Pit								
BORING COMPLETED: 11/16/16									
DR: JD LG: JL Rig:									

Appendix F

Laboratory Analytical Reports and Chains-of-Custody

**REVIEWED**

By Trey Howard at 11:36 am, Jan 09, 2017

Tel: 651-642-1150
Fax: 651-642-1239**BULK MATERIAL ASBESTOS ANALYSIS REPORT**

Client: Mr. Trey Howard
American Engineering Testing, Inc.
550 Cleveland Avenue
St. Paul, MN 55114

Report Date: 11/23/16

Date Received: 11/21/16

Date Analyzed: 11/23/16

Client Project: 03-06069 – West Side Flats – St Paul, MN

Project No: 1605109

SAMPLE NO.	LAB NO.	SAMPLE DESCRIPTION	ASBESTOS TYPE (%)	OTHER MATERIAL (%)
1	1605109 - 1	Green Ceramic Tile Green/White, Cementitious Homogeneous	None Detected	100% Nonfibrous

The analysis was performed in accordance with current U.S. Environmental Protection Agency (USEPA) protocols, "Method for the Determination of Asbestos in Bulk Building Materials," EPA 600/R-93/116, 1993 and "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," EPA-600/M4-82-020, Dec. 1982. All reported percentages are by visual estimates. In the case of nonhomogeneous samples, each material or layer is analyzed separately and the reported percentages are based on the total sample as received. Samples will be disposed of 30 days from the date of this report, unless other instructions are received from the client. The samples were received in acceptable condition.

NVLAP Laboratory Accreditation Number: 102081-0

ANALYST:

Todd Giorgi
Microscopist

- This document cannot be duplicated, except in its entirety, without the express written authorization from LEGEND TECHNICAL SERVICES, INC.
- This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
- This report relates only to the above items tested.



**AMERICAN
ENGINEERING
TESTING, INC.**

St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

OTHER

AET PROJECT NUMBER 03-06069 PAGE 1 OF 1

PROJECT NAME/LOCATION West Side Flats / St. Paul / MN

AET PROJECT MANAGER Trey Howard

SEND REPORT TO Trey Howard

SAMPLED BY (PRINT) Steve Dahlen

SAMPLER SIGNATURE *[Signature]*

REQUESTED TURNAROUND TIME: NORMAL RUSH

DATE NEEDED BY:

ANALYSIS

Asbestos PLM

ITEM #	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	PRESERVATIVES					FIELD FILTERED Y/N	REMARKS		
					UNPRESERVED	MeOH	HCL	H2SO4	HNO3				
1	Green Ceramic Tile	11/16/00	1300	Bulk								ATP-3 (6'x8')	

NOTE:

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1	Steve Dahlen / AET			

**REVIEWED**

By Trey Howard at 11:39 am, Jan 09, 2017

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

December 20, 2016

Mr. Trey Howard
American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114Work Order Number: 1605055
RE: 03-06069

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16. If you have any questions concerning this report, please feel free to contact me.

Results are not blank corrected unless noted within the report. Additionally, all QC results meet requirements unless noted.

All samples will be retained by Legend Technical Services, Inc., unless consumed in the analysis, at ambient conditions for 30 days from the date of this report and then discarded unless other arrangements are made. All samples were received in acceptable condition unless otherwise noted.

All test results and QC meet requirements of the 2003 NELAC standard.

MDH (NELAP) Accreditation #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

A handwritten signature in black ink, appearing to read "Bach Pham", written over a horizontal line.

Bach Pham
Client Manager II
bpham@legend-group.com



88 Empire Drive
 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGP-1 (0'-2')	1605055-01	Soil	11/16/16 14:10	11/17/16 17:05
AGP-1 (10'-12')	1605055-02	Soil	11/16/16 14:30	11/17/16 17:05
AGP-2 (2'-4')	1605055-03	Soil	11/16/16 12:34	11/17/16 17:05
AGP-2 (6'-8')	1605055-04	Soil	11/16/16 12:42	11/17/16 17:05
AGP-3 (6'-8')	1605055-05	Soil	11/17/16 08:01	11/17/16 17:05
AGP-3 (12'-15')	1605055-06	Soil	11/17/16 09:13	11/17/16 17:05
AGP-4 (2'-4')	1605055-07	Soil	11/17/16 10:25	11/17/16 17:05
AGP-4 (12'-15')	1605055-08	Soil	11/17/16 10:50	11/17/16 17:05
AGP-5 (0'-2')	1605055-09	Soil	11/17/16 13:20	11/17/16 17:05
AGP-5 (8'-10')	1605055-10	Soil	11/17/16 13:45	11/17/16 17:05
AGP-6 (2'-4')	1605055-11	Soil	11/17/16 14:03	11/17/16 17:05
AGP-6 (8'-10')	1605055-12	Soil	11/17/16 14:16	11/17/16 17:05
AGP-Dup-Soil	1605055-13	Soil	11/17/16 00:00	11/17/16 17:05
Trip Blank	1605055-14	Methanol	11/16/16 00:00	11/17/16 17:05

Shipping Container Information

Default Cooler

Temperature (°C): 3.4

Received on ice: Yes

Temperature blank was present

Received on ice pack: No

Received on melt water: No

Ambient: No

Acceptable (IH/ISO only): No

Custody seals: No

Case Narrative:



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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DRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Diesel Range Organics	33	13	2.7	mg/kg dry	2	B6K2113	11/21/16	11/21/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	97.0			70-130 %		"	"	"	"	
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
Diesel Range Organics	<6.8	6.8	1.5	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	92.1			70-130 %		"	"	"	"	
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
Diesel Range Organics	7.2	6.9	1.5	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	98.7			70-130 %		"	"	"	"	
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
Diesel Range Organics	<7.0	7.0	1.5	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	101			70-130 %		"	"	"	"	
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
Diesel Range Organics	62	9.0	1.9	mg/kg dry	1	B6K2113	11/21/16	11/22/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	97.5			70-130 %		"	"	"	"	
AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05										
Diesel Range Organics	<6.7	6.7	1.4	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	91.8			70-130 %		"	"	"	"	
AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05										
Diesel Range Organics	36	8.4	1.8	mg/kg dry	1	B6K2113	11/21/16	11/22/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	99.6			70-130 %		"	"	"	"	
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
Diesel Range Organics	<6.3	6.3	1.3	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	96.6			70-130 %		"	"	"	"	
AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
Diesel Range Organics	550	17	3.6	mg/kg dry	2	B6K2113	11/21/16	11/21/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	116			70-130 %		"	"	"	"	
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
Diesel Range Organics	18	6.3	1.3	mg/kg dry	1	B6K2113	11/21/16	11/21/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	100			70-130 %		"	"	"	"	
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Diesel Range Organics	<7.2	7.2	1.5	mg/kg dry	1	B6K2113	11/21/16	11/22/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	95.1			70-130 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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DRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Diesel Range Organics	<7.1	7.1	1.5	mg/kg dry	1	B6K2113	11/21/16	11/22/16	WI(95) DRO	
Surrogate: <i>Triacontane (C-30)</i>	100			70-130 %		"	"	"	"	
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
Diesel Range Organics	<6.5	6.5	1.4	mg/kg dry	1	B6K2113	11/21/16	11/22/16	WI(95) DRO	
Surrogate: <i>Triacontane (C-30)</i>	102			70-130 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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WI(95) GRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Gasoline range organics	<5.7	5.7	1.1	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	120			80-150 %		"	"	"	"	
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
Gasoline range organics	<6.0	6.0	1.2	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	112			80-150 %		"	"	"	"	
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
Gasoline range organics	<6.7	6.7	1.3	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	106			80-150 %		"	"	"	"	
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
Gasoline range organics	<6.4	6.4	1.3	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	106			80-150 %		"	"	"	"	
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
Gasoline range organics	<7.2	7.2	1.4	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	123			80-150 %		"	"	"	"	
AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05										
Gasoline range organics	<5.8	5.8	1.2	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	109			80-150 %		"	"	"	"	
AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05										
Gasoline range organics	<8.5	8.5	1.7	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	W-03
Surrogate: 4-Fluorochlorobenzene	115			80-150 %		"	"	"	"	
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
Gasoline range organics	<5.6	5.6	1.1	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	114			80-150 %		"	"	"	"	
AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
Gasoline range organics	<8.8	8.8	1.8	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	W-03
Surrogate: 4-Fluorochlorobenzene	111			80-150 %		"	"	"	"	
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
Gasoline range organics	<6.1	6.1	1.2	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	116			80-150 %		"	"	"	"	
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Gasoline range organics	<5.5	5.5	1.1	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	113			80-150 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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WI(95) GRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Gasoline range organics	<5.9	5.9	1.2	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	106			80-150 %		"	"	"	"	
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
Gasoline range organics	<5.6	5.6	1.1	mg/kg dry	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	105			80-150 %		"	"	"	"	
Trip Blank (1605055-14) Methanol Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Gasoline range organics	<5.0	5.0	1.0	mg/kg wet	1	B6K2219	11/22/16	11/23/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	113			80-150 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Arsenic	1.8	1.1	0.33	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	26	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.17	0.057	0.011	mg/kg dry	1	"	"	"	"	
Chromium	13	0.57	0.023	mg/kg dry	1	"	"	"	"	
Lead	17	0.85	0.20	mg/kg dry	1	"	"	"	"	M1, QR-03
Mercury	<0.57	0.57	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.75	mg/kg dry	1	"	"	"	"	
Silver	<0.57	0.57	0.17	mg/kg dry	1	"	"	"	"	
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
Arsenic	1.6	1.2	0.35	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	27	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.065	0.060	0.012	mg/kg dry	1	"	"	"	"	
Chromium	7.0	0.60	0.024	mg/kg dry	1	"	"	"	"	
Lead	2.2	0.90	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.60	0.60	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.60	0.60	0.18	mg/kg dry	1	"	"	"	"	
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
Arsenic	1.7	1.1	0.31	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	35	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.10	0.054	0.011	mg/kg dry	1	"	"	"	"	
Chromium	11	0.54	0.022	mg/kg dry	1	"	"	"	"	
Lead	6.7	0.81	0.19	mg/kg dry	1	"	"	"	"	
Mercury	<0.54	0.54	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.71	mg/kg dry	1	"	"	"	"	
Silver	<0.54	0.54	0.16	mg/kg dry	1	"	"	"	"	
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
Arsenic	1.2	1.0	0.30	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	15	1.0	0.10	mg/kg dry	1	"	"	"	"	
Cadmium	<0.052	0.052	0.010	mg/kg dry	1	"	"	"	"	
Chromium	10	0.52	0.021	mg/kg dry	1	"	"	"	"	
Lead	1.4	0.78	0.19	mg/kg dry	1	"	"	"	"	
Mercury	<0.52	0.52	0.12	mg/kg dry	1	"	"	"	"	
Selenium	<2.6	2.6	0.69	mg/kg dry	1	"	"	"	"	
Silver	<0.52	0.52	0.16	mg/kg dry	1	"	"	"	"	
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
Antimony	4.2	1.2	0.24	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05

Arsenic	14	1.2	0.36	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	230	1.2	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.55	0.16	0.0064	mg/kg dry	1	"	"	"	"	
Cadmium	1.3	0.062	0.012	mg/kg dry	1	"	"	"	"	
Chromium	21	0.62	0.025	mg/kg dry	1	"	"	"	"	
Copper	63	0.62	0.081	mg/kg dry	1	"	"	"	"	
Lead	450	0.94	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.62	0.62	0.15	mg/kg dry	1	"	"	"	"	
Nickel	16	0.31	0.050	mg/kg dry	1	"	"	"	"	
Selenium	<3.1	3.1	0.82	mg/kg dry	1	"	"	"	"	
Silver	<0.62	0.62	0.19	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.51	mg/kg dry	1	"	"	"	"	
Zinc	490	1.2	0.25	mg/kg dry	1	"	"	"	"	

AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05

Arsenic	2.1	1.2	0.34	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	51	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.14	0.058	0.012	mg/kg dry	1	"	"	"	"	
Chromium	9.6	0.58	0.023	mg/kg dry	1	"	"	"	"	
Lead	4.0	0.87	0.21	mg/kg dry	1	"	"	"	"	
Mercury	<0.58	0.58	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<2.9	2.9	0.77	mg/kg dry	1	"	"	"	"	
Silver	<0.58	0.58	0.17	mg/kg dry	1	"	"	"	"	

AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05

Arsenic	22	1.2	0.34	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	240	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	2.0	0.059	0.012	mg/kg dry	1	"	"	"	"	
Chromium	19	0.59	0.024	mg/kg dry	1	"	"	"	"	
Lead	270	0.88	0.21	mg/kg dry	1	"	"	"	"	
Mercury	<0.59	0.59	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<2.9	2.9	0.78	mg/kg dry	1	"	"	"	"	
Silver	<0.59	0.59	0.18	mg/kg dry	1	"	"	"	"	

AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05

Arsenic	2.9	1.1	0.33	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	45	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.081	0.056	0.011	mg/kg dry	1	"	"	"	"	
Chromium	11	0.56	0.022	mg/kg dry	1	"	"	"	"	
Lead	6.4	0.84	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.56	0.56	0.13	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
Selenium	<2.8	2.8	0.74	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Silver	<0.56	0.56	0.17	mg/kg dry	1	"	"	"	"	
AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
Arsenic	5.2	1.1	0.33	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	220	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.29	0.057	0.011	mg/kg dry	1	"	"	"	"	
Chromium	14	0.57	0.023	mg/kg dry	1	"	"	"	"	
Lead	200	0.86	0.21	mg/kg dry	1	"	"	"	"	
Mercury	0.93	0.57	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<2.9	2.9	0.76	mg/kg dry	1	"	"	"	"	
Silver	<0.57	0.57	0.17	mg/kg dry	1	"	"	"	"	
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
Arsenic	2.9	1.2	0.35	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	100	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.30	0.061	0.012	mg/kg dry	1	"	"	"	"	
Chromium	13	0.61	0.024	mg/kg dry	1	"	"	"	"	
Lead	140	0.91	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.61	0.61	0.15	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.61	0.61	0.18	mg/kg dry	1	"	"	"	"	
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Arsenic	19	1.1	0.32	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	71	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.12	0.055	0.011	mg/kg dry	1	"	"	"	"	
Chromium	8.6	0.55	0.022	mg/kg dry	1	"	"	"	"	
Lead	18	0.82	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.55	0.55	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.55	0.55	0.16	mg/kg dry	1	"	"	"	"	
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Arsenic	1.6	1.1	0.31	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	31	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.080	0.054	0.011	mg/kg dry	1	"	"	"	"	
Chromium	6.5	0.54	0.022	mg/kg dry	1	"	"	"	"	
Lead	2.1	0.81	0.19	mg/kg dry	1	"	"	"	"	
Mercury	<0.54	0.54	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.71	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Silver	<0.54	0.54	0.16	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
Arsenic	2.6	1.1	0.32	mg/kg dry	1	B6K2104	11/21/16	11/22/16	EPA 6010C	
Barium	89	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.19	0.056	0.011	mg/kg dry	1	"	"	"	"	
Chromium	8.4	0.56	0.022	mg/kg dry	1	"	"	"	"	
Lead	5.0	0.83	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.56	0.56	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.56	0.56	0.17	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Aroclor 1016	<0.23	0.23	0.026	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.23	0.23	0.068	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.23	0.23	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	94.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	94.5			60.9-138 %		"	"	"	"	
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
Aroclor 1016	<0.24	0.24	0.028	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.24	0.24	0.072	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	94.0			60.9-138 %		"	"	"	"	
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.065	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	96.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	93.0			60.9-138 %		"	"	"	"	
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
Aroclor 1016	<0.21	0.21	0.024	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.21	0.21	0.062	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.21	0.21	0.022	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.21	0.21	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.21	0.21	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.21	0.21	0.012	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.21	0.21	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	91.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	91.5			60.9-138 %		"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.066	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	100			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	97.0			60.9-138 %		"	"	"	"	
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.065	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	93.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	92.0			60.9-138 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
% Solids	88			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
% Solids	83			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
% Solids	93			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
% Solids	96			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
% Solids	80			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05										
% Solids	86			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05										
% Solids	85			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
% Solids	89			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
% Solids	87			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
% Solids	82			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
% Solids	91			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
% Solids	93			%	1	B6K2917	11/29/16	11/30/16	% calculation	
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
% Solids	90			%	1	B6K2917	11/29/16	11/30/16	% calculation	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.38	0.38	0.085	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.38	0.38	0.076	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.38	0.38	0.066	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.76	0.76	0.22	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.76	0.76	0.081	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.76	0.76	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.76	0.76	0.15	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.76	0.76	0.081	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.76	0.76	0.15	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.38	0.38	0.091	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.76	0.76	0.093	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.76	0.76	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.76	0.76	0.093	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.51	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.38	0.38	0.082	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.76	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.76	0.76	0.16	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.76	0.76	0.076	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.38	0.38	0.094	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.76	0.76	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.38	0.38	0.072	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	
Aniline	<0.76	0.76	0.075	mg/kg dry	1	"	"	"	"	
Anthracene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Benzidine	<2.8	2.8	0.50	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.39	0.38	0.074	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.40	0.38	0.080	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	0.52	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.38	0.38	0.080	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.38	0.38	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.38	0.38	0.089	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.38	0.38	0.092	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.38	0.38	0.094	mg/kg dry	1	"	"	"	"	
Carbazole	<0.38	0.38	0.086	mg/kg dry	1	"	"	"	"	
Chrysene	0.46	0.38	0.073	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.38	0.38	0.093	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.38	0.38	0.072	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.38	0.38	0.090	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.38	0.38	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.70	0.38	0.077	mg/kg dry	1	"	"	"	"	
Fluorene	<0.38	0.38	0.074	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.38	0.38	0.070	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.38	0.38	0.093	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.38	0.38	0.082	mg/kg dry	1	"	"	"	"	
Isophorone	<0.38	0.38	0.086	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.38	0.38	0.091	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.38	0.38	0.080	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.38	0.38	0.083	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.38	0.38	0.076	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.76	0.76	0.22	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.38	0.38	0.075	mg/kg dry	1	"	"	"	"	
Phenol	<0.76	0.76	0.16	mg/kg dry	1	"	"	"	"	
Pyrene	0.65	0.38	0.067	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	82.2			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	56.1			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	64.5			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	65.6			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	58.7			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.36	0.36	0.082	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.36	0.36	0.064	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.74	0.74	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.74	0.74	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.74	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.74	0.74	0.074	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.74	0.74	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Aniline	<0.74	0.74	0.073	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Benzidine	<2.7	2.7	0.48	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.36	0.36	0.065	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.36	0.36	0.077	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.36	0.36	0.086	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.36	0.36	0.089	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
Carbazole	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Chrysene	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.36	0.36	0.087	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.36	0.36	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.36	0.36	0.068	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
Isophorone	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.36	0.36	0.080	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.36	0.36	0.073	mg/kg dry	1	"	"	"	"	
Phenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	<0.36	0.36	0.065	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	72.8			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	60.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	47.8			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	58.9			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	58.2			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	56.7			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.35	0.35	0.081	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.35	0.35	0.062	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.72	0.72	0.20	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.72	0.72	0.076	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.72	0.72	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.72	0.72	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.72	0.72	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.72	0.72	0.076	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.72	0.72	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.35	0.35	0.083	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.72	0.72	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.35	0.35	0.086	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.72	0.72	0.088	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.72	0.72	0.19	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.72	0.72	0.088	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.7	1.7	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.35	0.35	0.077	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.72	0.72	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.72	0.72	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.72	0.72	0.072	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.35	0.35	0.089	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.72	0.72	0.18	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.35	0.35	0.068	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	
Aniline	<0.72	0.72	0.071	mg/kg dry	1	"	"	"	"	
Anthracene	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
Benzidine	<2.7	2.7	0.47	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.35	0.35	0.070	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.35	0.35	0.075	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.35	0.35	0.063	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.35	0.35	0.075	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.35	0.35	0.069	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.72	0.72	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.35	0.35	0.083	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.35	0.35	0.084	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.35	0.35	0.087	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.35	0.35	0.089	mg/kg dry	1	"	"	"	"	
Carbazole	<0.35	0.35	0.082	mg/kg dry	1	"	"	"	"	
Chrysene	<0.35	0.35	0.069	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.35	0.35	0.088	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.35	0.35	0.068	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.35	0.35	0.085	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	0.35	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Fluorene	<0.35	0.35	0.070	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.35	0.35	0.067	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.35	0.35	0.083	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.35	0.35	0.088	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.35	0.35	0.077	mg/kg dry	1	"	"	"	"	
Isophorone	<0.35	0.35	0.082	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.35	0.35	0.086	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.35	0.35	0.075	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.35	0.35	0.078	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.72	0.72	0.20	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.35	0.35	0.071	mg/kg dry	1	"	"	"	"	
Phenol	<0.72	0.72	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	<0.35	0.35	0.063	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	82.9			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.4			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	63.1			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	64.1			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	61.8			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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TCLP METALS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
Lead	0.089	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	
AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05										
Lead	0.99	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	
AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
Lead	<0.075	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
Lead	<0.075	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.23	0.23	0.023	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.23	0.23	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.57	0.57	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.57	0.57	0.081	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.57	0.57	0.052	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.23	0.23	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.23	0.23	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.23	0.23	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.23	0.23	0.059	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.23	0.23	0.025	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.23	0.23	0.022	mg/kg dry	1	"	"	"	"	
Bromoform	<0.23	0.23	0.041	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
Chloroform	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.23	0.23	0.031	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.23	0.23	0.014	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (0'-2') (1605055-01) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
cis-1,3-Dichloropropene	<0.23	0.23	0.028	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Dibromochloromethane	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.23	0.23	0.042	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.57	0.57	0.090	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.45	0.45	0.055	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.23	0.23	0.049	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.57	0.57	0.068	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.57	0.57	0.055	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.23	0.23	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.23	0.23	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.23	0.23	0.025	mg/kg dry	1	"	"	"	"	
Styrene	<0.23	0.23	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.23	0.23	0.030	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.23	0.23	0.043	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.23	0.23	0.0077	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.23	0.23	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	100			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	

AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
1,1-Dichloroethene	<0.24	0.24	0.016	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.60	0.60	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.60	0.60	0.086	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	0.60	0.055	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.063	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Benzene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.023	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.043	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-12') (1605055-02) Soil Sampled: 11/16/16 14:30 Received: 11/17/16 17:05										
Ethylbenzene	<0.24	0.24	0.025	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Hexachlorobutadiene	<0.60	0.60	0.095	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.48	0.48	0.058	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.052	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.60	0.60	0.072	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.60	0.60	0.058	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Styrene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.031	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.046	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0082	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.8			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	99.1			78.1-125 %		"	"	"	"	

AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.27	0.27	0.027	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.27	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.27	0.27	0.021	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.27	0.27	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.27	0.27	0.017	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.67	0.67	0.13	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.27	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.67	0.67	0.095	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.27	0.27	0.024	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
1,2-Dibromo-3-chloropropane	<0.67	0.67	0.061	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,2-Dibromoethane (EDB)	<0.27	0.27	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.27	0.27	0.017	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.27	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.27	0.27	0.028	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.27	0.27	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.27	0.27	0.069	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.3	1.3	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.27	0.27	0.029	mg/kg dry	1	"	"	"	"	
Acetone	<1.3	1.3	0.16	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
Benzene	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.27	0.27	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.27	0.27	0.025	mg/kg dry	1	"	"	"	"	
Bromoform	<0.27	0.27	0.048	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.27	0.27	0.040	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.27	0.27	0.019	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.27	0.27	0.040	mg/kg dry	1	"	"	"	"	
Chloroform	<0.27	0.27	0.041	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.27	0.27	0.036	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.27	0.27	0.016	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.27	0.27	0.049	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.27	0.27	0.032	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.27	0.27	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.67	0.67	0.11	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.27	0.27	0.040	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.53	0.53	0.064	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.27	0.27	0.057	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (2'-4') (1605055-03) Soil Sampled: 11/16/16 12:34 Received: 11/17/16 17:05										
Methylene chloride	<0.67	0.67	0.080	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Naphthalene	<0.67	0.67	0.064	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.27	0.27	0.021	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.27	0.27	0.023	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.27	0.27	0.015	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.27	0.27	0.029	mg/kg dry	1	"	"	"	"	
Styrene	<0.27	0.27	0.021	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.27	0.27	0.035	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.27	0.27	0.051	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.3	1.3	0.15	mg/kg dry	1	"	"	"	"	
Toluene	<0.27	0.27	0.0091	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.27	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.27	0.27	0.024	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.27	0.27	0.039	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.27	0.27	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.8			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	

AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.25	0.25	0.025	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.64	0.64	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.64	0.64	0.090	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.64	0.64	0.059	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
1,3-Dichlorobenzene	<0.25	0.25	0.011	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,3-Dichloropropane	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.25	0.25	0.066	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.3	1.3	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Acetone	<1.3	1.3	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Benzene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.25	0.25	0.024	mg/kg dry	1	"	"	"	"	
Bromoform	<0.25	0.25	0.046	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Chloroform	<0.25	0.25	0.039	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.25	0.25	0.034	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.25	0.25	0.047	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.64	0.64	0.10	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.51	0.51	0.061	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.25	0.25	0.055	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.64	0.64	0.076	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.64	0.64	0.061	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (6'-8') (1605055-04) Soil Sampled: 11/16/16 12:42 Received: 11/17/16 17:05										
sec-Butylbenzene	<0.25	0.25	0.028	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Styrene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.25	0.25	0.033	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.25	0.25	0.048	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Toluene	<0.25	0.25	0.0086	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	100			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.29	0.29	0.029	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.29	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.29	0.29	0.023	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.29	0.29	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.29	0.29	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.29	0.29	0.019	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.29	0.29	0.022	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.72	0.72	0.14	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.29	0.29	0.043	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.72	0.72	0.10	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.29	0.29	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.72	0.72	0.066	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.29	0.29	0.035	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.29	0.29	0.019	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.29	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.29	0.29	0.030	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.29	0.29	0.022	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.29	0.29	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.29	0.29	0.075	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.4	1.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
4-Chlorotoluene	<0.29	0.29	0.032	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Acetone	<1.4	1.4	0.17	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
Benzene	<0.29	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.29	0.29	0.033	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.29	0.29	0.027	mg/kg dry	1	"	"	"	"	
Bromoform	<0.29	0.29	0.052	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.29	0.29	0.043	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.29	0.29	0.020	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.29	0.29	0.043	mg/kg dry	1	"	"	"	"	
Chloroform	<0.29	0.29	0.045	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.29	0.29	0.039	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.29	0.29	0.017	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.29	0.29	0.036	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.29	0.29	0.053	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.29	0.29	0.014	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.29	0.29	0.035	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.29	0.29	0.030	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.72	0.72	0.11	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.29	0.29	0.043	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.58	0.58	0.069	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.29	0.29	0.062	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.29	0.29	0.014	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.72	0.72	0.087	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.72	0.72	0.069	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.29	0.29	0.023	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.29	0.29	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.29	0.29	0.025	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.29	0.29	0.016	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.29	0.29	0.032	mg/kg dry	1	"	"	"	"	
Styrene	<0.29	0.29	0.023	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.29	0.29	0.037	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.29	0.29	0.055	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.4	1.4	0.16	mg/kg dry	1	"	"	"	"	
Toluene	<0.29	0.29	0.0098	mg/kg dry	1	"	"	"	"	



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550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (6'-8') (1605055-05) Soil Sampled: 11/17/16 08:01 Received: 11/17/16 17:05										
trans-1,2-Dichloroethene	<0.29	0.29	0.026	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
trans-1,3-Dichloropropene	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.29	0.29	0.026	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.29	0.29	0.042	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.29	0.29	0.030	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	
AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.23	0.23	0.023	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.58	0.58	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.58	0.58	0.083	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.58	0.58	0.053	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.23	0.23	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.23	0.23	0.060	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Benzene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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88 Empire Drive
St Paul, MN 55103
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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05										
Bromodichloromethane	<0.23	0.23	0.022	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Bromoform	<0.23	0.23	0.042	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
Chloroform	<0.23	0.23	0.036	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.23	0.23	0.031	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.23	0.23	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.23	0.23	0.043	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.23	0.23	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.58	0.58	0.092	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.47	0.47	0.056	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.23	0.23	0.050	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.58	0.58	0.070	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.58	0.58	0.056	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.23	0.23	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.23	0.23	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
Styrene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.23	0.23	0.030	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.23	0.23	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.23	0.23	0.0079	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0			80-124 %		"	"	"	"	

Legend Technical Services, Inc.

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88 Empire Drive
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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-3 (12'-15') (1605055-06) Soil Sampled: 11/17/16 09:13 Received: 11/17/16 17:05

Surrogate: Dibromofluoromethane	101		77.1-123 %			B6K2922	11/29/16	11/29/16	EPA 8260B	
Surrogate: Toluene-d8	101		78.1-125 %			"	"	"	"	

AGP-4 (2'-4') (1605055-07) Soil Sampled: 11/17/16 10:25 Received: 11/17/16 17:05

W-03

1,1,1,2-Tetrachloroethane	<0.34	0.34	0.034	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.34	0.34	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.34	0.34	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.34	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.34	0.34	0.034	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.34	0.34	0.017	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.34	0.34	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.34	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.85	0.85	0.17	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.34	0.34	0.051	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.85	0.85	0.12	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.34	0.34	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.85	0.85	0.078	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.34	0.34	0.041	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.34	0.34	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.34	0.34	0.037	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.34	0.34	0.036	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.34	0.34	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.34	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.34	0.34	0.027	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.34	0.34	0.089	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.7	1.7	0.16	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.34	0.34	0.034	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.34	0.34	0.037	mg/kg dry	1	"	"	"	"	
Acetone	<1.7	1.7	0.20	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
Benzene	<0.34	0.34	0.026	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.34	0.34	0.034	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.34	0.34	0.039	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.34	0.34	0.032	mg/kg dry	1	"	"	"	"	
Bromoform	<0.34	0.34	0.061	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.34	0.34	0.051	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.34	0.34	0.024	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.34	0.34	0.051	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (2'-4') (1605055-07) Soil										W-03
Sampled: 11/17/16 10:25										
Received: 11/17/16 17:05										
Chloroform	<0.34	0.34	0.053	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Chloromethane	<0.34	0.34	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.34	0.34	0.020	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.34	0.34	0.043	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.34	0.34	0.063	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.34	0.34	0.017	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.34	0.34	0.041	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.34	0.34	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.85	0.85	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.34	0.34	0.051	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.68	0.68	0.082	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.34	0.34	0.073	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.34	0.34	0.017	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.85	0.85	0.10	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.85	0.85	0.082	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.34	0.34	0.027	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.34	0.34	0.017	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.34	0.34	0.029	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.34	0.34	0.019	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.34	0.34	0.037	mg/kg dry	1	"	"	"	"	
Styrene	<0.34	0.34	0.027	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.34	0.34	0.044	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.34	0.34	0.065	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.7	1.7	0.19	mg/kg dry	1	"	"	"	"	
Toluene	<0.34	0.34	0.012	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.34	0.34	0.031	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.34	0.34	0.034	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.34	0.34	0.031	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.34	0.34	0.049	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.34	0.34	0.036	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	
AGP-4 (12'-15') (1605055-08) Soil										
Sampled: 11/17/16 10:50										
Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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88 Empire Drive
St Paul, MN 55103
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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.56	0.56	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.56	0.56	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.56	0.56	0.052	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.035	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (12'-15') (1605055-08) Soil Sampled: 11/17/16 10:50 Received: 11/17/16 17:05										
Dichlorodifluoromethane	<0.22	0.22	0.042	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.56	0.56	0.089	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.45	0.45	0.054	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.56	0.56	0.067	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.56	0.56	0.054	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.043	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0076	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.6			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	101			78.1-125 %		"	"	"	"	

AGP-5 (0'-2') (1605055-09) Soil Sampled: 11/17/16 13:20 Received: 11/17/16 17:05

W-03

1,1,1,2-Tetrachloroethane	<0.35	0.35	0.035	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.35	0.35	0.041	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.35	0.35	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.35	0.35	0.025	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.35	0.35	0.035	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.35	0.35	0.017	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.35	0.35	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.35	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.88	0.88	0.17	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-5 (0'-2') (1605055-09) Soil										W-03
Sampled: 11/17/16 13:20										
Received: 11/17/16 17:05										
1,2,3-Trichloropropane	<0.35	0.35	0.053	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,2,4-Trichlorobenzene	<0.88	0.88	0.13	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.35	0.35	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.88	0.88	0.081	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.35	0.35	0.042	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.35	0.35	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.35	0.35	0.039	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.35	0.35	0.037	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.35	0.35	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.35	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.35	0.35	0.028	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.35	0.35	0.092	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.8	1.8	0.17	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.35	0.35	0.035	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.35	0.35	0.039	mg/kg dry	1	"	"	"	"	
Acetone	<1.8	1.8	0.21	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
Benzene	<0.35	0.35	0.027	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.35	0.35	0.035	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.35	0.35	0.041	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.35	0.35	0.034	mg/kg dry	1	"	"	"	"	
Bromoform	<0.35	0.35	0.064	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.35	0.35	0.053	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.35	0.35	0.025	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.35	0.35	0.053	mg/kg dry	1	"	"	"	"	
Chloroform	<0.35	0.35	0.055	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.35	0.35	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.35	0.35	0.021	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.35	0.35	0.044	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.35	0.35	0.065	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.35	0.35	0.018	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.35	0.35	0.042	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.35	0.35	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.88	0.88	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.35	0.35	0.053	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-5 (0'-2') (1605055-09) Soil										W-03
Sampled: 11/17/16 13:20 Received: 11/17/16 17:05										
m,p-Xylene	<0.71	0.71	0.085	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Methyl isobutyl ketone	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.35	0.35	0.017	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.88	0.88	0.11	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.88	0.88	0.085	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.35	0.35	0.028	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.35	0.35	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.35	0.35	0.019	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.35	0.35	0.039	mg/kg dry	1	"	"	"	"	
Styrene	<0.35	0.35	0.028	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.35	0.35	0.046	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.35	0.35	0.067	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.8	1.8	0.19	mg/kg dry	1	"	"	"	"	
Toluene	<0.35	0.35	0.012	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.35	0.35	0.032	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.35	0.35	0.035	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.35	0.35	0.032	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.35	0.35	0.051	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.35	0.35	0.037	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7		80-124	%		"	"	"	"	
Surrogate: Dibromofluoromethane	99.1		77.1-123	%		"	"	"	"	
Surrogate: Toluene-d8	99.0		78.1-125	%		"	"	"	"	

AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.61	0.61	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.61	0.61	0.087	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.61	0.61	0.056	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
1,2-Dichloroethane	<0.24	0.24	0.027	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,2-Dichloropropane	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.063	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Benzene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.023	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.044	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.038	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.61	0.61	0.096	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.49	0.49	0.059	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.052	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.61	0.61	0.073	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.61	0.61	0.059	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-5 (8'-10') (1605055-10) Soil Sampled: 11/17/16 13:45 Received: 11/17/16 17:05										
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
o-Xylene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Styrene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.032	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.046	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0083	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	100			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	98.2			78.1-125 %		"	"	"	"	

AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.55	0.55	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.55	0.55	0.078	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.55	0.55	0.051	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.0099	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
2,2-Dichloropropane	<0.22	0.22	0.057	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
2-Butanone	<1.1	1.1	0.10	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.22	0.22	0.041	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.55	0.55	0.087	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.44	0.44	0.053	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.047	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.55	0.55	0.066	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.55	0.55	0.053	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (2'-4') (1605055-11) Soil Sampled: 11/17/16 14:03 Received: 11/17/16 17:05										
Tetrachloroethene	<0.22	0.22	0.042	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0075	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.032	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	102			78.1-125 %		"	"	"	"	

AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.24	0.24	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.59	0.59	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.59	0.59	0.083	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.59	0.59	0.054	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.061	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Benzene	<0.24	0.24	0.018	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.042	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.032	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.043	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.59	0.59	0.093	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.47	0.47	0.056	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.051	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.59	0.59	0.071	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.59	0.59	0.056	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
Styrene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.031	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0080	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (8'-10') (1605055-12) Soil Sampled: 11/17/16 14:16 Received: 11/17/16 17:05										
Trichlorofluoromethane	<0.24	0.24	0.034	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Vinyl chloride	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.4		80-124	%		"	"	"	"	
Surrogate: Dibromofluoromethane	96.1		77.1-123	%		"	"	"	"	
Surrogate: Toluene-d8	94.1		78.1-125	%		"	"	"	"	
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.56	0.56	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.56	0.56	0.079	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.56	0.56	0.051	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.10	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-Dup-Soil (1605055-13) Soil Sampled: 11/17/16 00:00 Received: 11/17/16 17:05										
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	B6K2923	11/29/16	11/30/16	EPA 8260B	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.22	0.22	0.041	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.56	0.56	0.088	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.44	0.44	0.053	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.56	0.56	0.067	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.56	0.56	0.053	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0076	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.032	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	98.5			78.1-125 %		"	"	"	"	

Trip Blank (1605055-14) Methanol Sampled: 11/16/16 00:00 Received: 11/17/16 17:05



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (1605055-14) Methanol Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.20	0.20	0.020	mg/kg wet	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.20	0.20	0.023	mg/kg wet	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.20	0.20	0.016	mg/kg wet	1	"	"	"	"	
1,1,2-Trichloroethane	<0.20	0.20	0.014	mg/kg wet	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.20	0.20	0.020	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethane	<0.20	0.20	0.0097	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethene	<0.20	0.20	0.013	mg/kg wet	1	"	"	"	"	
1,1-Dichloropropene	<0.20	0.20	0.015	mg/kg wet	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.50	0.50	0.097	mg/kg wet	1	"	"	"	"	
1,2,3-Trichloropropane	<0.20	0.20	0.030	mg/kg wet	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.50	0.50	0.071	mg/kg wet	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.20	0.20	0.018	mg/kg wet	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.50	0.50	0.046	mg/kg wet	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.20	0.20	0.024	mg/kg wet	1	"	"	"	"	
1,2-Dichlorobenzene	<0.20	0.20	0.013	mg/kg wet	1	"	"	"	"	
1,2-Dichloroethane	<0.20	0.20	0.022	mg/kg wet	1	"	"	"	"	
1,2-Dichloropropane	<0.20	0.20	0.021	mg/kg wet	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.20	0.20	0.025	mg/kg wet	1	"	"	"	"	
1,3-Dichlorobenzene	<0.20	0.20	0.0090	mg/kg wet	1	"	"	"	"	
1,3-Dichloropropane	<0.20	0.20	0.015	mg/kg wet	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	0.20	0.016	mg/kg wet	1	"	"	"	"	
2,2-Dichloropropane	<0.20	0.20	0.052	mg/kg wet	1	"	"	"	"	
2-Butanone	<1.0	1.0	0.094	mg/kg wet	1	"	"	"	"	
2-Chlorotoluene	<0.20	0.20	0.020	mg/kg wet	1	"	"	"	"	
4-Chlorotoluene	<0.20	0.20	0.022	mg/kg wet	1	"	"	"	"	
Acetone	<1.0	1.0	0.12	mg/kg wet	1	"	"	"	"	
Allyl chloride	<0.20	0.20	0.025	mg/kg wet	1	"	"	"	"	
Benzene	<0.20	0.20	0.015	mg/kg wet	1	"	"	"	"	
Bromobenzene	<0.20	0.20	0.020	mg/kg wet	1	"	"	"	"	
Bromochloromethane	<0.20	0.20	0.023	mg/kg wet	1	"	"	"	"	
Bromodichloromethane	<0.20	0.20	0.019	mg/kg wet	1	"	"	"	"	
Bromoform	<0.20	0.20	0.036	mg/kg wet	1	"	"	"	"	
Bromomethane	<0.20	0.20	0.030	mg/kg wet	1	"	"	"	"	
Carbon tetrachloride	<0.20	0.20	0.025	mg/kg wet	1	"	"	"	"	
Chlorobenzene	<0.20	0.20	0.014	mg/kg wet	1	"	"	"	"	
Chloroethane	<0.20	0.20	0.030	mg/kg wet	1	"	"	"	"	
Chloroform	<0.20	0.20	0.031	mg/kg wet	1	"	"	"	"	
Chloromethane	<0.20	0.20	0.027	mg/kg wet	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.20	0.20	0.012	mg/kg wet	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (1605055-14) Methanol Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
cis-1,3-Dichloropropene	<0.20	0.20	0.025	mg/kg wet	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Dibromochloromethane	<0.20	0.20	0.025	mg/kg wet	1	"	"	"	"	
Dibromomethane	<0.20	0.20	0.025	mg/kg wet	1	"	"	"	"	
Dichlorodifluoromethane	<0.20	0.20	0.037	mg/kg wet	1	"	"	"	"	
Dichlorofluoromethane	<0.20	0.20	0.010	mg/kg wet	1	"	"	"	"	
Ethyl ether	<0.20	0.20	0.024	mg/kg wet	1	"	"	"	"	
Ethylbenzene	<0.20	0.20	0.021	mg/kg wet	1	"	"	"	"	
Hexachlorobutadiene	<0.50	0.50	0.079	mg/kg wet	1	"	"	"	"	
Isopropylbenzene	<0.20	0.20	0.030	mg/kg wet	1	"	"	"	"	
m,p-Xylene	<0.40	0.40	0.048	mg/kg wet	1	"	"	"	"	
Methyl isobutyl ketone	<0.20	0.20	0.043	mg/kg wet	1	"	"	"	"	
Methyl tert-butyl ether	<0.20	0.20	0.0097	mg/kg wet	1	"	"	"	"	
Methylene chloride	<0.50	0.50	0.060	mg/kg wet	1	"	"	"	"	
Naphthalene	<0.50	0.50	0.048	mg/kg wet	1	"	"	"	"	
n-Butylbenzene	<0.20	0.20	0.016	mg/kg wet	1	"	"	"	"	
n-Propylbenzene	<0.20	0.20	0.010	mg/kg wet	1	"	"	"	"	
o-Xylene	<0.20	0.20	0.017	mg/kg wet	1	"	"	"	"	
p-Isopropyltoluene	<0.20	0.20	0.011	mg/kg wet	1	"	"	"	"	
sec-Butylbenzene	<0.20	0.20	0.022	mg/kg wet	1	"	"	"	"	
Styrene	<0.20	0.20	0.016	mg/kg wet	1	"	"	"	"	
tert-Butylbenzene	<0.20	0.20	0.026	mg/kg wet	1	"	"	"	"	
Tetrachloroethene	<0.20	0.20	0.038	mg/kg wet	1	"	"	"	"	
Tetrahydrofuran	<1.0	1.0	0.11	mg/kg wet	1	"	"	"	"	
Toluene	<0.20	0.20	0.0068	mg/kg wet	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.20	0.20	0.018	mg/kg wet	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.20	0.20	0.020	mg/kg wet	1	"	"	"	"	
Trichloroethene	<0.20	0.20	0.018	mg/kg wet	1	"	"	"	"	
Trichlorofluoromethane	<0.20	0.20	0.029	mg/kg wet	1	"	"	"	"	
Vinyl chloride	<0.20	0.20	0.021	mg/kg wet	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	101			78.1-125 %		"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

DRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2113 - Sonication (Wisc DRO)											
Blank (B6K2113-BLK1)											
						Prepared & Analyzed: 11/21/16					
Diesel Range Organics	< 8.0	8.0	1.7	mg/kg wet							
Surrogate: <i>Triacontane (C-30)</i>	14.4			mg/kg wet	16.0		89.7	70-130			
LCS (B6K2113-BS1)											
						Prepared & Analyzed: 11/21/16					
Diesel Range Organics	66.5	8.0	1.7	mg/kg wet	64.0	<8.0	104	70-120			
Surrogate: <i>Triacontane (C-30)</i>	14.2			mg/kg wet	16.0		88.6	70-130			
LCS Dup (B6K2113-BSD1)											
						Prepared: 11/21/16 Analyzed: 11/22/16					
Diesel Range Organics	67.3	8.0	1.7	mg/kg wet	64.0	<8.0	105	70-120	1.22	20	
Surrogate: <i>Triacontane (C-30)</i>	15.0			mg/kg wet	16.0		94.0	70-130			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

WI(95) GRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2219 - EPA 5035 Soil (Purge and Trap)											
Blank (B6K2219-BLK1)											
						Prepared: 11/22/16 Analyzed: 11/23/16					
Gasoline range organics	< 5.0	5.0	1.0	mg/kg wet							
Surrogate: 4-Fluorochlorobenzene	24.3			ug/L	20.0		122	80-150			
LCS (B6K2219-BS1)											
						Prepared: 11/22/16 Analyzed: 11/23/16					
Gasoline range organics	989			ug/L	1000		98.9	80-120			
Surrogate: 4-Fluorochlorobenzene	28.2			ug/L	20.0		141	80-150			
LCS Dup (B6K2219-BSD1)											
						Prepared: 11/22/16 Analyzed: 11/24/16					
Gasoline range organics	973			ug/L	1000		97.3	80-120	1.62	20	
Surrogate: 4-Fluorochlorobenzene	24.9			ug/L	20.0		124	80-150			
Duplicate (B6K2219-DUP1)											
						Source: 1605055-03 Prepared: 11/22/16 Analyzed: 11/23/16					
Gasoline range organics	2.64	6.7	1.3	mg/kg dry		<6.7			NA	20	
Surrogate: 4-Fluorochlorobenzene	22.1			ug/L	20.0		110	80-150			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2104 - EPA 3050B

Blank (B6K2104-BLK1)

Prepared: 11/21/16 Analyzed: 11/22/16

Antimony	< 1.0	1.0	0.19	mg/kg wet							
Arsenic	< 1.0	1.0	0.29	mg/kg wet							
Barium	< 1.0	1.0	0.10	mg/kg wet							
Beryllium	< 0.13	0.13	0.0051	mg/kg wet							
Cadmium	< 0.050	0.050	0.010	mg/kg wet							
Chromium	< 0.50	0.50	0.020	mg/kg wet							
Copper	< 0.50	0.50	0.065	mg/kg wet							
Lead	< 0.75	0.75	0.18	mg/kg wet							
Mercury	< 0.50	0.50	0.12	mg/kg wet							
Nickel	< 0.25	0.25	0.040	mg/kg wet							
Selenium	< 2.5	2.5	0.66	mg/kg wet							
Silver	< 0.50	0.50	0.15	mg/kg wet							
Thallium	< 2.0	2.0	0.41	mg/kg wet							
Zinc	< 1.0	1.0	0.20	mg/kg wet							

LCS (B6K2104-BS1)

Prepared: 11/21/16 Analyzed: 11/22/16

Antimony	39.4	1.0	0.19	mg/kg wet	39.9	<1.0	98.6	80-120			
Arsenic	40.2	1.0	0.29	mg/kg wet	39.9	<1.0	101	80-120			
Barium	39.8	1.0	0.10	mg/kg wet	39.9	<1.0	99.7	80-120			
Beryllium	4.00	0.13	0.0051	mg/kg wet	3.99	<0.13	100	80-120			
Cadmium	40.4	0.050	0.010	mg/kg wet	39.9	<0.050	101	80-120			
Chromium	40.9	0.50	0.020	mg/kg wet	39.9	<0.50	103	80-120			
Copper	39.7	0.50	0.065	mg/kg wet	39.9	<0.50	99.5	80-120			
Lead	39.8	0.75	0.18	mg/kg wet	39.9	<0.75	99.6	80-120			
Mercury	12.2	0.50	0.12	mg/kg wet	12.5	<0.50	97.6	80-120			
Nickel	41.5	0.25	0.040	mg/kg wet	39.9	<0.25	104	80-120			
Selenium	41.6	2.5	0.66	mg/kg wet	39.9	<2.5	104	80-120			
Silver	3.96	0.50	0.15	mg/kg wet	3.99	<0.50	99.2	80-120			
Thallium	41.4	2.0	0.41	mg/kg wet	39.9	<2.0	104	80-120			
Zinc	40.2	1.0	0.20	mg/kg wet	39.9	<1.0	101	80-120			

LCS Dup (B6K2104-BSD1)

Prepared: 11/21/16 Analyzed: 11/22/16

Antimony	39.2	1.0	0.19	mg/kg wet	39.9	<1.0	98.1	80-120	0.510	20	
Arsenic	39.6	1.0	0.29	mg/kg wet	39.9	<1.0	99.1	80-120	1.63	20	
Barium	39.7	1.0	0.10	mg/kg wet	39.9	<1.0	99.5	80-120	0.252	20	
Beryllium	3.98	0.13	0.0051	mg/kg wet	3.99	<0.13	99.6	80-120	0.627	20	
Cadmium	40.0	0.050	0.010	mg/kg wet	39.9	<0.050	100	80-120	0.746	20	
Chromium	40.8	0.50	0.020	mg/kg wet	39.9	<0.50	102	80-120	0.245	20	
Copper	39.8	0.50	0.065	mg/kg wet	39.9	<0.50	99.9	80-120	0.377	20	
Lead	39.7	0.75	0.18	mg/kg wet	39.9	<0.75	99.5	80-120	0.126	20	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2104 - EPA 3050B											
LCS Dup (B6K2104-BSD1)											
						Prepared: 11/21/16 Analyzed: 11/22/16					
Mercury	12.2	0.50	0.12	mg/kg wet	12.5	<0.50	98.0	80-120	0.409	20	
Nickel	41.4	0.25	0.040	mg/kg wet	39.9	<0.25	104	80-120	0.241	20	
Selenium	40.9	2.5	0.66	mg/kg wet	39.9	<2.5	103	80-120	1.58	20	
Silver	3.92	0.50	0.15	mg/kg wet	3.99	<0.50	98.2	80-120	1.02	20	
Thallium	41.6	2.0	0.41	mg/kg wet	39.9	<2.0	104	80-120	0.241	20	
Zinc	39.8	1.0	0.20	mg/kg wet	39.9	<1.0	99.7	80-120	1.00	20	
Matrix Spike (B6K2104-MS1)											
						Source: 1605055-01 Prepared: 11/21/16 Analyzed: 11/22/16					
Antimony	42.6	1.1	0.22	mg/kg dry	45.1	<1.1	92.7	75-125			
Arsenic	47.5	1.1	0.33	mg/kg dry	45.1	1.76	101	75-125			
Barium	69.5	1.1	0.11	mg/kg dry	45.1	26.2	96.0	75-125			
Beryllium	4.74	0.15	0.0058	mg/kg dry	4.51	<0.15	102	75-125			
Cadmium	46.0	0.057	0.011	mg/kg dry	45.1	0.170	102	75-125			
Chromium	57.6	0.57	0.023	mg/kg dry	45.1	12.7	99.6	75-125			
Copper	59.9	0.57	0.074	mg/kg dry	45.1	10.5	110	75-125			
Lead	61.0	0.85	0.20	mg/kg dry	45.1	17.1	97.4	75-125			
Mercury	13.5	0.57	0.14	mg/kg dry	14.1	<0.57	95.2	75-125			
Nickel	71.8	0.28	0.045	mg/kg dry	45.1	8.76	140	75-125			M1
Selenium	46.6	2.8	0.75	mg/kg dry	45.1	<2.8	103	75-125			
Silver	4.57	0.57	0.17	mg/kg dry	4.51	<0.57	101	75-125			
Thallium	43.5	2.3	0.47	mg/kg dry	45.1	<2.3	96.4	75-125			
Zinc	87.0	1.1	0.23	mg/kg dry	45.1	40.8	102	75-125			
Matrix Spike Dup (B6K2104-MSD1)											
						Source: 1605055-01 Prepared: 11/21/16 Analyzed: 11/22/16					
Antimony	40.9	1.1	0.22	mg/kg dry	43.8	<1.1	91.5	75-125	4.08	20	
Arsenic	47.5	1.1	0.33	mg/kg dry	43.8	1.76	104	75-125	0.0505	20	
Barium	76.3	1.1	0.11	mg/kg dry	43.8	26.2	114	75-125	9.34	20	
Beryllium	4.59	0.15	0.0058	mg/kg dry	4.38	<0.15	102	75-125	3.12	20	
Cadmium	44.8	0.057	0.011	mg/kg dry	43.8	0.170	102	75-125	2.64	20	
Chromium	56.0	0.57	0.023	mg/kg dry	43.8	12.7	98.8	75-125	2.88	20	
Copper	60.4	0.57	0.074	mg/kg dry	43.8	10.5	114	75-125	0.822	20	
Lead	74.7	0.85	0.20	mg/kg dry	43.8	17.1	131	75-125	20.1	20	M1, QR-03
Mercury	13.3	0.57	0.14	mg/kg dry	13.7	<0.57	97.2	75-125	0.803	20	
Nickel	53.4	0.28	0.045	mg/kg dry	43.8	8.76	102	75-125	29.3	20	M1
Selenium	44.9	2.8	0.75	mg/kg dry	43.8	<2.8	103	75-125	3.61	20	
Silver	4.44	0.57	0.17	mg/kg dry	4.38	<0.57	101	75-125	2.88	20	
Thallium	42.2	2.3	0.47	mg/kg dry	43.8	<2.3	96.4	75-125	2.88	20	
Zinc	105	1.1	0.23	mg/kg dry	43.8	40.8	146	75-125	18.6	20	M1



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

PCB 8082A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2802 - EPA 3545 ASE Extraction											
Blank (B6K2802-BLK1)						Prepared & Analyzed: 11/28/16					
Aroclor 1016	< 0.20	0.20	0.023	mg/kg wet							
Aroclor 1221	< 0.20	0.20	0.060	mg/kg wet							
Aroclor 1232	< 0.20	0.20	0.021	mg/kg wet							
Aroclor 1242	< 0.20	0.20	0.018	mg/kg wet							
Aroclor 1248	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1254	< 0.20	0.20	0.012	mg/kg wet							
Aroclor 1260	< 0.20	0.20	0.013	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0647			mg/kg wet	0.0667		97.0	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0620			mg/kg wet	0.0667		93.0	60.9-138			
LCS (B6K2802-BS1)						Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.323	0.20	0.023	mg/kg wet	0.333	<0.20	96.9	70-130			
Aroclor 1260	0.321	0.20	0.013	mg/kg wet	0.333	<0.20	96.3	70-130			
Surrogate: Decachlorobiphenyl	0.0603			mg/kg wet	0.0667		90.5	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0627			mg/kg wet	0.0667		94.0	60.9-138			
Matrix Spike (B6K2802-MS1)						Source: 1605055-04 Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.340	0.21	0.024	mg/kg dry	0.348	<0.21	97.6	70-130			
Aroclor 1260	0.337	0.21	0.014	mg/kg dry	0.348	<0.21	96.6	70-130			
Surrogate: Decachlorobiphenyl	0.0686			mg/kg dry	0.0697		98.5	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0651			mg/kg dry	0.0697		93.5	60.9-138			
Matrix Spike Dup (B6K2802-MSD1)						Source: 1605055-04 Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.325	0.21	0.024	mg/kg dry	0.347	<0.21	93.8	70-130	4.37	20	
Aroclor 1260	0.327	0.21	0.014	mg/kg dry	0.347	<0.21	94.2	70-130	2.92	17.2	
Surrogate: Decachlorobiphenyl	0.0659			mg/kg dry	0.0694		95.0	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0628			mg/kg dry	0.0694		90.5	60.9-138			



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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**PERCENT SOLIDS - Quality Control
 Legend Technical Services, Inc.**

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2917 - General Preparation											
Duplicate (B6K2917-DUP1)						Source: 1605064-07	Prepared: 11/29/16 Analyzed: 11/30/16				
% Solids	89.0			%		88.0			1.13	20	
Duplicate (B6K2917-DUP2)						Source: 1605126-10	Prepared: 11/29/16 Analyzed: 11/30/16				
% Solids	87.0			%		85.0			2.33	20	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Blank (B6K2201-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

1,2,4-Trichlorobenzene	< 0.33	0.33	0.075	mg/kg wet							
1,2-Dichlorobenzene	< 0.33	0.33	0.067	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.33	0.33	0.058	mg/kg wet							
1,3-Dichlorobenzene	< 0.33	0.33	0.069	mg/kg wet							
1,4-Dichlorobenzene	< 0.33	0.33	0.068	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
2,4,5-Trichlorophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4,6-Trichlorophenol	< 0.67	0.67	0.16	mg/kg wet							
2,4-Dichlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2,4-Dimethylphenol	< 0.67	0.67	0.13	mg/kg wet							
2,4-Dinitrophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4-Dinitrotoluene	< 0.33	0.33	0.068	mg/kg wet							
2,6-Dichlorophenol	< 0.67	0.67	0.13	mg/kg wet							
2,6-Dinitrotoluene	< 0.33	0.33	0.077	mg/kg wet							
2-Chloronaphthalene	< 0.33	0.33	0.068	mg/kg wet							
2-Chlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.080	mg/kg wet							
2-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
2-Nitroaniline	< 0.33	0.33	0.069	mg/kg wet							
2-Nitrophenol	< 0.67	0.67	0.18	mg/kg wet							
3&4-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
3,3'-Dichlorobenzidine	< 1.6	1.6	0.45	mg/kg wet							
3-Nitroaniline	< 0.33	0.33	0.072	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.67	0.67	0.11	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Chloro-3-methylphenol	< 0.67	0.67	0.14	mg/kg wet							
4-Chloroaniline	< 0.67	0.67	0.067	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Nitroaniline	< 0.33	0.33	0.083	mg/kg wet							
4-Nitrophenol	< 0.67	0.67	0.17	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.063	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.071	mg/kg wet							
Aniline	< 0.67	0.67	0.066	mg/kg wet							
Anthracene	< 0.33	0.33	0.069	mg/kg wet							
Benzidine	< 2.5	2.5	0.44	mg/kg wet							
Benzo(a)anthracene	< 0.33	0.33	0.065	mg/kg wet							
Benzo(a)pyrene	< 0.33	0.33	0.070	mg/kg wet							
Benzo(b)fluoranthene	< 0.33	0.33	0.059	mg/kg wet							
Benzo(g,h,i)perylene	< 0.33	0.33	0.071	mg/kg wet							



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Blank (B6K2201-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

Benzo(k)fluoranthene	< 0.33	0.33	0.070	mg/kg wet							
Benzoic acid	< 0.33	0.33	0.064	mg/kg wet							
Benzyl alcohol	< 0.67	0.67	0.15	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.33	0.33	0.077	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.33	0.33	0.069	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.33	0.33	0.078	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.33	0.33	0.081	mg/kg wet							
Butyl benzyl phthalate	< 0.33	0.33	0.083	mg/kg wet							
Carbazole	< 0.33	0.33	0.076	mg/kg wet							
Chrysene	< 0.33	0.33	0.064	mg/kg wet							
Dibenz(a,h)anthracene	< 0.33	0.33	0.082	mg/kg wet							
Dibenzofuran	< 0.33	0.33	0.068	mg/kg wet							
Diethyl phthalate	< 0.33	0.33	0.063	mg/kg wet							
Dimethyl phthalate	< 0.33	0.33	0.069	mg/kg wet							
Di-n-butyl phthalate	< 0.33	0.33	0.079	mg/kg wet							
Di-n-octyl phthalate	< 0.33	0.33	0.10	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.068	mg/kg wet							
Fluorene	< 0.33	0.33	0.065	mg/kg wet							
Hexachlorobenzene	< 0.33	0.33	0.062	mg/kg wet							
Hexachlorobutadiene	< 0.33	0.33	0.077	mg/kg wet							
Hexachlorocyclopentadiene	< 0.33	0.33	0.069	mg/kg wet							
Hexachloroethane	< 0.33	0.33	0.082	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.072	mg/kg wet							
Isophorone	< 0.33	0.33	0.076	mg/kg wet							
Naphthalene	< 0.33	0.33	0.071	mg/kg wet							
Nitrobenzene	< 0.33	0.33	0.080	mg/kg wet							
N-Nitrosodimethylamine	< 0.33	0.33	0.070	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.33	0.33	0.073	mg/kg wet							
N-Nitrosodiphenylamine	< 0.33	0.33	0.067	mg/kg wet							
Pentachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.066	mg/kg wet							
Phenol	< 0.67	0.67	0.14	mg/kg wet							
Pyrene	< 0.33	0.33	0.059	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	5.74			mg/kg wet	6.67		86.2	53-107			
Surrogate: 2-Fluorobiphenyl	4.59			mg/kg wet	6.67		68.9	53.9-97.9			
Surrogate: 2-Fluorophenol	3.96			mg/kg wet	6.67		59.4	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.58			mg/kg wet	6.67		68.7	48.9-100			
Surrogate: Phenol-d6	4.72			mg/kg wet	6.67		70.8	50.4-99.6			
Surrogate: Terphenyl-d14	4.12			mg/kg wet	6.67		61.7	51-99.6			



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

LCS (B6K2201-BS1)

Prepared: 11/22/16 Analyzed: 11/28/16

1,2,4-Trichlorobenzene	2.32	0.33	0.075	mg/kg wet	3.33	<0.33	69.7	50-100			
1,4-Dichlorobenzene	2.20	0.33	0.068	mg/kg wet	3.33	<0.33	66.0	40-80			
2,4-Dinitrotoluene	2.87	0.33	0.068	mg/kg wet	3.33	<0.33	86.0	50-90			
2-Chlorophenol	2.26	0.67	0.15	mg/kg wet	3.33	<0.67	67.7	50-85			
4-Chloro-3-methylphenol	2.61	0.67	0.14	mg/kg wet	3.33	<0.67	78.2	55-90			
4-Nitrophenol	2.84	0.67	0.17	mg/kg wet	3.33	<0.67	85.2	45-100			
Anthracene	2.50	0.33	0.069	mg/kg wet	3.33	<0.33	75.1	55-95			
Benzo(a)anthracene	2.60	0.33	0.065	mg/kg wet	3.33	<0.33	77.9	55-100			
Benzo(a)pyrene	2.54	0.33	0.070	mg/kg wet	3.33	<0.33	76.2	55-100			
Chrysene	2.55	0.33	0.064	mg/kg wet	3.33	<0.33	76.4	55-100			
Fluoranthene	2.50	0.33	0.068	mg/kg wet	3.33	<0.33	74.9	55-95			
Fluorene	2.71	0.33	0.065	mg/kg wet	3.33	<0.33	81.2	55-95			
N-Nitrosodi-n-propylamine	2.50	0.33	0.073	mg/kg wet	3.33	<0.33	75.1	50-90			
Pentachlorophenol	2.08	0.67	0.19	mg/kg wet	3.33	<0.67	62.3	35-95			
Phenanthrene	2.50	0.33	0.066	mg/kg wet	3.33	<0.33	75.1	55-95			
Phenol	2.14	0.67	0.14	mg/kg wet	3.33	<0.67	64.1	50-85			
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.41			mg/kg wet	6.67		66.1	53-107			
<i>Surrogate: 2-Fluorobiphenyl</i>	4.13			mg/kg wet	6.67		61.9	53.9-97.9			
<i>Surrogate: 2-Fluorophenol</i>	3.95			mg/kg wet	6.67		59.2	42.5-94.9			
<i>Surrogate: Nitrobenzene-d5</i>	4.03			mg/kg wet	6.67		60.4	48.9-100			
<i>Surrogate: Phenol-d6</i>	4.24			mg/kg wet	6.67		63.7	50.4-99.6			
<i>Surrogate: Terphenyl-d14</i>	4.35			mg/kg wet	6.67		65.2	51-99.6			

Matrix Spike (B6K2201-MS1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

1,2,4-Trichlorobenzene	2.48	0.34	0.077	mg/kg dry	3.39	<0.34	73.2	35-100			
1,4-Dichlorobenzene	2.36	0.34	0.069	mg/kg dry	3.39	<0.34	69.4	30-85			
2,4-Dinitrotoluene	2.92	0.34	0.069	mg/kg dry	3.39	<0.34	85.9	45-95			
2-Chlorophenol	2.37	0.68	0.15	mg/kg dry	3.39	<0.68	69.8	35-100			
4-Chloro-3-methylphenol	2.54	0.68	0.14	mg/kg dry	3.39	<0.68	74.7	35-100			
4-Nitrophenol	3.16	0.68	0.17	mg/kg dry	3.39	<0.68	93.0	40-100			
Anthracene	2.64	0.34	0.070	mg/kg dry	3.39	<0.34	77.8	55-100			
Benzo(a)anthracene	2.66	0.34	0.066	mg/kg dry	3.39	<0.34	78.4	50-100			
Benzo(a)pyrene	2.69	0.34	0.071	mg/kg dry	3.39	<0.34	79.2	50-100			
Chrysene	2.70	0.34	0.065	mg/kg dry	3.39	<0.34	79.5	50-100			
Fluoranthene	2.58	0.34	0.069	mg/kg dry	3.39	<0.34	75.9	50-100			
Fluorene	2.84	0.34	0.066	mg/kg dry	3.39	<0.34	83.7	50-100			
N-Nitrosodi-n-propylamine	2.60	0.34	0.074	mg/kg dry	3.39	<0.34	76.7	35-100			
Pentachlorophenol	2.33	0.68	0.19	mg/kg dry	3.39	<0.68	68.7	30-100			
Phenanthrene	2.65	0.34	0.067	mg/kg dry	3.39	<0.34	78.1	55-100			
Phenol	2.25	0.68	0.14	mg/kg dry	3.39	<0.68	66.3	35-100			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Matrix Spike (B6K2201-MS1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

Surrogate: 2,4,6-Tribromophenol	4.81			mg/kg dry	6.79		70.8	53-107			
Surrogate: 2-Fluorobiphenyl	4.55			mg/kg dry	6.79		67.0	53.9-97.9			
Surrogate: 2-Fluorophenol	4.28			mg/kg dry	6.79		63.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.39			mg/kg dry	6.79		64.7	48.9-100			
Surrogate: Phenol-d6	4.57			mg/kg dry	6.79		67.3	50.4-99.6			
Surrogate: Terphenyl-d14	4.69			mg/kg dry	6.79		69.1	51-99.6			

Matrix Spike Dup (B6K2201-MSD1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

1,2,4-Trichlorobenzene	2.44	0.34	0.077	mg/kg dry	3.40	<0.34	71.9	35-100	1.71	20	
1,4-Dichlorobenzene	2.30	0.34	0.069	mg/kg dry	3.40	<0.34	67.8	30-85	2.18	20	
2,4-Dinitrotoluene	2.99	0.34	0.069	mg/kg dry	3.40	<0.34	88.0	45-95	2.52	20	
2-Chlorophenol	2.35	0.68	0.15	mg/kg dry	3.40	<0.68	69.1	35-100	0.910	20	
4-Chloro-3-methylphenol	2.58	0.68	0.14	mg/kg dry	3.40	<0.68	75.9	35-100	1.64	20	
4-Nitrophenol	3.23	0.68	0.17	mg/kg dry	3.40	<0.68	95.0	40-100	2.28	20	
Anthracene	2.69	0.34	0.070	mg/kg dry	3.40	<0.34	79.3	55-100	1.98	20	
Benzo(a)anthracene	2.72	0.34	0.066	mg/kg dry	3.40	<0.34	80.0	50-100	2.07	20	
Benzo(a)pyrene	2.69	0.34	0.071	mg/kg dry	3.40	<0.34	79.1	50-100	0.0416	20	
Chrysene	2.76	0.34	0.065	mg/kg dry	3.40	<0.34	81.3	50-100	2.36	20	
Fluoranthene	2.66	0.34	0.069	mg/kg dry	3.40	<0.34	78.2	50-100	3.08	20	
Fluorene	2.85	0.34	0.066	mg/kg dry	3.40	<0.34	83.8	50-100	0.199	20	
N-Nitrosodi-n-propylamine	2.58	0.34	0.074	mg/kg dry	3.40	<0.34	75.9	35-100	1.02	20	
Pentachlorophenol	2.52	0.68	0.19	mg/kg dry	3.40	<0.68	74.1	30-100	7.66	20	
Phenanthrene	2.71	0.34	0.067	mg/kg dry	3.40	<0.34	79.8	55-100	2.10	20	
Phenol	2.22	0.68	0.14	mg/kg dry	3.40	<0.68	65.5	35-100	1.20	20	
Surrogate: 2,4,6-Tribromophenol	4.84			mg/kg dry	6.79		71.3	53-107			
Surrogate: 2-Fluorobiphenyl	4.48			mg/kg dry	6.79		65.9	53.9-97.9			
Surrogate: 2-Fluorophenol	4.14			mg/kg dry	6.79		61.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.28			mg/kg dry	6.79		62.9	48.9-100			
Surrogate: Phenol-d6	4.46			mg/kg dry	6.79		65.6	50.4-99.6			
Surrogate: Terphenyl-d14	4.98			mg/kg dry	6.79		73.3	51-99.6			



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

TCLP METALS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6L1402 - EPA 1311											
Blank (B6L1402-BLK1)											
Lead	< 0.075	0.075	0.018	mg/L							Prepared: 12/14/16 Analyzed: 12/19/16
LCS (B6L1402-BS1)											
Lead	3.85	0.075	0.018	mg/L	3.99	<0.075	96.5	80-120			Prepared: 12/14/16 Analyzed: 12/19/16
LCS Dup (B6L1402-BSD1)											
Lead	3.88	0.075	0.018	mg/L	3.99	<0.075	97.2	80-120	0.776	20	Prepared: 12/14/16 Analyzed: 12/19/16
Matrix Spike (B6L1402-MS2)											
	Source: 1605055-05					Prepared: 12/14/16 Analyzed: 12/19/16					
Lead	3.88	0.075	0.018	mg/L	3.99	0.0890	95.0	75-125			
Matrix Spike Dup (B6L1402-MSD2)											
	Source: 1605055-05					Prepared: 12/14/16 Analyzed: 12/19/16					
Lead	3.93	0.075	0.018	mg/L	3.99	0.0890	96.3	75-125	1.28	20	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2826-BLK1)

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1,1-Trichloroethane	< 0.20	0.20	0.023	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.016	mg/kg wet							
1,1,2-Trichloroethane	< 0.20	0.20	0.014	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1-Dichloroethane	< 0.20	0.20	0.0097	mg/kg wet							
1,1-Dichloroethene	< 0.20	0.20	0.013	mg/kg wet							
1,1-Dichloropropene	< 0.20	0.20	0.015	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.50	0.50	0.097	mg/kg wet							
1,2,3-Trichloropropane	< 0.20	0.20	0.030	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.50	0.50	0.071	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.20	0.20	0.018	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.50	0.50	0.046	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.20	0.20	0.024	mg/kg wet							
1,2-Dichlorobenzene	< 0.20	0.20	0.013	mg/kg wet							
1,2-Dichloroethane	< 0.20	0.20	0.022	mg/kg wet							
1,2-Dichloropropane	< 0.20	0.20	0.021	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.20	0.20	0.025	mg/kg wet							
1,3-Dichlorobenzene	< 0.20	0.20	0.0090	mg/kg wet							
1,3-Dichloropropane	< 0.20	0.20	0.015	mg/kg wet							
1,4-Dichlorobenzene	< 0.20	0.20	0.016	mg/kg wet							
2,2-Dichloropropane	< 0.20	0.20	0.052	mg/kg wet							
2-Butanone	< 1.0	1.0	0.094	mg/kg wet							
2-Chlorotoluene	< 0.20	0.20	0.020	mg/kg wet							
4-Chlorotoluene	< 0.20	0.20	0.022	mg/kg wet							
Acetone	< 1.0	1.0	0.12	mg/kg wet							
Allyl chloride	< 0.20	0.20	0.025	mg/kg wet							
Benzene	< 0.20	0.20	0.015	mg/kg wet							
Bromobenzene	< 0.20	0.20	0.020	mg/kg wet							
Bromochloromethane	< 0.20	0.20	0.023	mg/kg wet							
Bromodichloromethane	< 0.20	0.20	0.019	mg/kg wet							
Bromoform	< 0.20	0.20	0.036	mg/kg wet							
Bromomethane	< 0.20	0.20	0.030	mg/kg wet							
Carbon tetrachloride	< 0.20	0.20	0.025	mg/kg wet							
Chlorobenzene	< 0.20	0.20	0.014	mg/kg wet							
Chloroethane	< 0.20	0.20	0.030	mg/kg wet							
Chloroform	< 0.20	0.20	0.031	mg/kg wet							
Chloromethane	< 0.20	0.20	0.027	mg/kg wet							
cis-1,2-Dichloroethene	< 0.20	0.20	0.012	mg/kg wet							



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2826-BLK1)

Prepared: 11/28/16 Analyzed: 11/29/16

cis-1,3-Dichloropropene	< 0.20	0.20	0.025	mg/kg wet							
Dibromochloromethane	< 0.20	0.20	0.025	mg/kg wet							
Dibromomethane	< 0.20	0.20	0.025	mg/kg wet							
Dichlorodifluoromethane	< 0.20	0.20	0.037	mg/kg wet							
Dichlorofluoromethane	< 0.20	0.20	0.010	mg/kg wet							
Ethyl ether	< 0.20	0.20	0.024	mg/kg wet							
Ethylbenzene	< 0.20	0.20	0.021	mg/kg wet							
Hexachlorobutadiene	< 0.50	0.50	0.079	mg/kg wet							
Isopropylbenzene	< 0.20	0.20	0.030	mg/kg wet							
m,p-Xylene	< 0.40	0.40	0.048	mg/kg wet							
Methyl isobutyl ketone	< 0.20	0.20	0.043	mg/kg wet							
Methyl tert-butyl ether	< 0.20	0.20	0.0097	mg/kg wet							
Methylene chloride	< 0.50	0.50	0.060	mg/kg wet							
Naphthalene	< 0.50	0.50	0.048	mg/kg wet							
n-Butylbenzene	< 0.20	0.20	0.016	mg/kg wet							
n-Propylbenzene	< 0.20	0.20	0.010	mg/kg wet							
o-Xylene	< 0.20	0.20	0.017	mg/kg wet							
p-Isopropyltoluene	< 0.20	0.20	0.011	mg/kg wet							
sec-Butylbenzene	< 0.20	0.20	0.022	mg/kg wet							
Styrene	< 0.20	0.20	0.016	mg/kg wet							
tert-Butylbenzene	< 0.20	0.20	0.026	mg/kg wet							
Tetrachloroethene	< 0.20	0.20	0.038	mg/kg wet							
Tetrahydrofuran	< 1.0	1.0	0.11	mg/kg wet							
Toluene	< 0.20	0.20	0.0068	mg/kg wet							
trans-1,2-Dichloroethene	< 0.20	0.20	0.018	mg/kg wet							
trans-1,3-Dichloropropene	< 0.20	0.20	0.020	mg/kg wet							
Trichloroethene	< 0.20	0.20	0.018	mg/kg wet							
Trichlorofluoromethane	< 0.20	0.20	0.029	mg/kg wet							
Vinyl chloride	< 0.20	0.20	0.021	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	47.0			ug/L	48.1		97.7	80-124			
Surrogate: Dibromofluoromethane	48.9			ug/L	48.1		102	77.1-123			
Surrogate: Toluene-d8	47.9			ug/L	48.1		99.7	78.1-125			

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	50.7			ug/L	50.0		101	80-120			
1,1,1-Trichloroethane	48.1			ug/L	50.0		96.2	80-120			
1,1,2,2-Tetrachloroethane	50.1			ug/L	50.0		100	75-120			
1,1,2-Trichloroethane	49.0			ug/L	50.0		98.0	80-120			
1,1,2-Trichlorotrifluoroethane	48.6			ug/L	50.0		97.2	80-120			
1,1-Dichloroethane	46.8			ug/L	50.0		93.6	79.6-120			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

1,1-Dichloroethene	45.5			ug/L	50.0		90.9	78.3-120			
1,1-Dichloropropene	48.5			ug/L	50.0		97.0	80-120			
1,2,3-Trichlorobenzene	39.2			ug/L	50.0		78.3	75-125			
1,2,3-Trichloropropane	50.7			ug/L	50.0		101	75.8-120			
1,2,4-Trichlorobenzene	40.4			ug/L	50.0		80.7	75-125			
1,2,4-Trimethylbenzene	51.0			ug/L	50.0		102	79.6-120			
1,2-Dibromo-3-chloropropane	44.4			ug/L	50.0		88.8	75-125			
1,2-Dibromoethane (EDB)	50.7			ug/L	50.0		101	80-120			
1,2-Dichlorobenzene	49.9			ug/L	50.0		99.8	75-125			
1,2-Dichloroethane	47.3			ug/L	50.0		94.6	80-120			
1,2-Dichloropropane	49.0			ug/L	50.0		98.0	80-120			
1,3,5-Trimethylbenzene	50.8			ug/L	50.0		102	77-120			
1,3-Dichlorobenzene	51.5			ug/L	50.0		103	75-125			
1,3-Dichloropropane	49.3			ug/L	50.0		98.5	80-120			
1,4-Dichlorobenzene	50.2			ug/L	50.0		100	75-125			
2,2-Dichloropropane	43.0			ug/L	50.0		85.9	60-137			
2-Butanone	44.3			ug/L	50.0		88.6	80-120			
2-Chlorotoluene	50.2			ug/L	50.0		100	75.9-120			
4-Chlorotoluene	49.9			ug/L	50.0		99.9	75.3-120			
Acetone	40.1			ug/L	50.0		80.3	80-120			
Allyl chloride	45.5			ug/L	50.0		91.1	80-120			
Benzene	50.4			ug/L	50.0		101	80-120			
Bromobenzene	51.9			ug/L	50.0		104	76.6-120			
Bromochloromethane	47.0			ug/L	50.0		94.0	80-120			
Bromodichloromethane	50.3			ug/L	50.0		101	80-120			
Bromoform	51.3			ug/L	50.0		103	80-120			
Bromomethane	51.0			ug/L	50.0		102	74.7-130			
Carbon tetrachloride	49.9			ug/L	50.0		99.7	80-120			
Chlorobenzene	52.0			ug/L	50.0		104	80-120			
Chloroethane	51.8			ug/L	50.0		104	75-130			
Chloroform	47.0			ug/L	50.0		94.0	80-120			
Chloromethane	47.1			ug/L	50.0		94.2	70-130			
cis-1,2-Dichloroethene	48.7			ug/L	50.0		97.4	80-120			
cis-1,3-Dichloropropene	49.3			ug/L	50.0		98.6	80-120			
Dibromochloromethane	50.3			ug/L	50.0		101	80-120			
Dibromomethane	50.3			ug/L	50.0		101	80-120			
Dichlorodifluoromethane	45.4			ug/L	50.0		90.8	70-130			
Dichlorofluoromethane	51.5			ug/L	50.0		103	80-120			
Ethyl ether	48.2			ug/L	50.0		96.3	80-120			



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

Ethylbenzene	50.1			ug/L	50.0		100	80-120			
Hexachlorobutadiene	43.2			ug/L	50.0		86.4	70-130			
Isopropylbenzene	51.6			ug/L	50.0		103	76.4-120			
m,p-Xylene	105			ug/L	100		105	80-120			
Methyl isobutyl ketone	51.4			ug/L	50.0		103	80-120			
Methyl tert-butyl ether	48.2			ug/L	50.0		96.3	80-120			
Methylene chloride	46.9			ug/L	50.0		93.7	75-122			
Naphthalene	39.7			ug/L	50.0		79.5	75-125			
n-Butylbenzene	48.0			ug/L	50.0		96.0	75-125			
n-Propylbenzene	51.2			ug/L	50.0		102	75-120			
o-Xylene	52.4			ug/L	50.0		105	80-120			
p-Isopropyltoluene	50.2			ug/L	50.0		100	75-125			
sec-Butylbenzene	50.5			ug/L	50.0		101	76.6-120			
Styrene	52.9			ug/L	50.0		106	80-120			
tert-Butylbenzene	51.3			ug/L	50.0		103	76.5-120			
Tetrachloroethene	50.4			ug/L	50.0		101	80-120			
Tetrahydrofuran	47.5			ug/L	50.0		95.1	80-120			
Toluene	51.2			ug/L	50.0		102	80-120			
trans-1,2-Dichloroethene	47.9			ug/L	50.0		95.8	80-120			
trans-1,3-Dichloropropene	49.2			ug/L	50.0		98.4	79.2-120			
Trichloroethene	50.5			ug/L	50.0		101	80-120			
Trichlorofluoromethane	51.9			ug/L	50.0		104	75-130			
Vinyl chloride	47.1			ug/L	50.0		94.3	75-130			
Surrogate: 4-Bromofluorobenzene	47.3			ug/L	48.1		98.2	80-124			
Surrogate: Dibromofluoromethane	49.3			ug/L	48.1		103	77.1-123			
Surrogate: Toluene-d8	47.9			ug/L	48.1		99.5	78.1-125			

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.1			ug/L	50.0	0.00	104	80-120			
1,1,1-Trichloroethane	48.3			ug/L	50.0	0.00	96.6	80-120			
1,1,2,2-Tetrachloroethane	50.1			ug/L	50.0	0.00	100	75-125			
1,1,2-Trichloroethane	49.5			ug/L	50.0	0.00	99.0	80-120			
1,1,2-Trichlorotrifluoroethane	48.0			ug/L	50.0	0.00	95.9	80-120			
1,1-Dichloroethane	47.1			ug/L	50.0	0.00	94.3	78.7-123			
1,1-Dichloroethene	46.1			ug/L	50.0	0.00	92.2	75.8-121			
1,1-Dichloropropene	47.4			ug/L	50.0	0.00	94.8	80-120			
1,2,3-Trichlorobenzene	38.2			ug/L	50.0	0.00	76.4	72.7-125			
1,2,3-Trichloropropane	50.2			ug/L	50.0	0.00	100	75-120			
1,2,4-Trichlorobenzene	39.4			ug/L	50.0	0.00	78.7	70-125			
1,2,4-Trimethylbenzene	50.4			ug/L	50.0	0.00	101	75-120			



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Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,2-Dibromo-3-chloropropane	43.3			ug/L	50.0	0.00	86.6	70-130			
1,2-Dibromoethane (EDB)	52.0			ug/L	50.0	0.00	104	80-120			
1,2-Dichlorobenzene	48.9			ug/L	50.0	0.00	97.9	75-125			
1,2-Dichloroethane	46.5			ug/L	50.0	0.00	93.0	80-120			
1,2-Dichloropropane	49.3			ug/L	50.0	0.00	98.6	80-120			
1,3,5-Trimethylbenzene	51.6			ug/L	50.0	0.00	103	75-120			
1,3-Dichlorobenzene	51.4			ug/L	50.0	0.00	103	75-125			
1,3-Dichloropropane	50.3			ug/L	50.0	0.00	101	80-120			
1,4-Dichlorobenzene	50.4			ug/L	50.0	0.00	101	75-125			
2,2-Dichloropropane	41.3			ug/L	50.0	0.00	82.5	60-135			
2-Butanone	43.3			ug/L	50.0	0.00	86.6	80-120			
2-Chlorotoluene	50.6			ug/L	50.0	0.00	101	75-120			
4-Chlorotoluene	50.7			ug/L	50.0	0.00	101	75-120			
Acetone	40.0			ug/L	50.0	0.00	80.0	80-120			
Allyl chloride	45.7			ug/L	50.0	0.00	91.4	80-120			
Benzene	51.1			ug/L	50.0	0.00	102	80-120			
Bromobenzene	52.3			ug/L	50.0	0.00	105	75-120			
Bromochloromethane	48.1			ug/L	50.0	0.00	96.3	78.9-122			
Bromodichloromethane	49.1			ug/L	50.0	0.00	98.3	80-120			
Bromoform	51.0			ug/L	50.0	0.00	102	80-120			
Bromomethane	51.2			ug/L	50.0	0.00	102	70-130			
Carbon tetrachloride	50.5			ug/L	50.0	0.00	101	80-120			
Chlorobenzene	52.5			ug/L	50.0	0.00	105	80-120			
Chloroethane	53.4			ug/L	50.0	0.00	107	75-130			
Chloroform	47.9			ug/L	50.0	0.00	95.9	80-120			
Chloromethane	48.4			ug/L	50.0	0.00	96.7	70-130			
cis-1,2-Dichloroethene	49.3			ug/L	50.0	0.00	98.6	80-120			
cis-1,3-Dichloropropene	48.2			ug/L	50.0	0.00	96.4	78.1-120			
Dibromochloromethane	52.2			ug/L	50.0	0.00	104	80-120			
Dibromomethane	48.6			ug/L	50.0	0.00	97.3	80-120			
Dichlorodifluoromethane	47.3			ug/L	50.0	0.00	94.5	70-130			
Dichlorofluoromethane	54.3			ug/L	50.0	0.00	109	80-120			
Ethyl ether	48.6			ug/L	50.0	0.00	97.3	80-120			
Ethylbenzene	51.4			ug/L	50.0	0.00	103	80-120			
Hexachlorobutadiene	42.7			ug/L	50.0	0.00	85.4	70-130			
Isopropylbenzene	52.4			ug/L	50.0	0.00	105	75-120			
m,p-Xylene	108			ug/L	100	0.00	108	80-120			
Methyl isobutyl ketone	48.9			ug/L	50.0	0.00	97.9	80-120			
Methyl tert-butyl ether	47.6			ug/L	50.0	0.00	95.2	80-120			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

Methylene chloride	47.2			ug/L	50.0	0.00	94.4	75-125			
Naphthalene	37.5			ug/L	50.0	0.00	74.9	71.3-125			
n-Butylbenzene	47.6			ug/L	50.0	0.00	95.1	73.8-125			
n-Propylbenzene	52.0			ug/L	50.0	0.00	104	75-120			
o-Xylene	54.0			ug/L	50.0	0.00	108	80-120			
p-Isopropyltoluene	50.1			ug/L	50.0	0.00	100	75-125			
sec-Butylbenzene	51.1			ug/L	50.0	0.00	102	75-120			
Styrene	53.9			ug/L	50.0	0.00	108	80-120			
tert-Butylbenzene	51.5			ug/L	50.0	0.00	103	75-120			
Tetrachloroethene	50.7			ug/L	50.0	0.00	101	80-120			
Tetrahydrofuran	44.8			ug/L	50.0	0.00	89.5	80-120			
Toluene	51.2			ug/L	50.0	0.00	102	80-120			
trans-1,2-Dichloroethene	48.2			ug/L	50.0	0.00	96.3	80-120			
trans-1,3-Dichloropropene	48.4			ug/L	50.0	0.00	96.8	80-120			
Trichloroethene	49.5			ug/L	50.0	0.00	99.1	80-120			
Trichlorofluoromethane	53.6			ug/L	50.0	0.00	107	70-130			
Vinyl chloride	48.9			ug/L	50.0	0.00	97.8	74.8-130			
Surrogate: 4-Bromofluorobenzene	47.6			ug/L	48.1		99.0	80-124			
Surrogate: Dibromofluoromethane	48.4			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.3			ug/L	48.1		100	78.1-125			

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	50.4			ug/L	50.0	0.00	101	80-120	3.37	20	
1,1,1-Trichloroethane	46.7			ug/L	50.0	0.00	93.3	80-120	3.48	20	
1,1,2,2-Tetrachloroethane	48.4			ug/L	50.0	0.00	96.7	75-125	3.59	20	
1,1,2-Trichloroethane	49.1			ug/L	50.0	0.00	98.2	80-120	0.887	20	
1,1,2-Trichlorotrifluoroethane	48.2			ug/L	50.0	0.00	96.4	80-120	0.528	20	
1,1-Dichloroethane	46.4			ug/L	50.0	0.00	92.8	78.7-123	1.58	20	
1,1-Dichloroethene	45.3			ug/L	50.0	0.00	90.6	75.8-121	1.77	20	
1,1-Dichloropropene	46.7			ug/L	50.0	0.00	93.5	80-120	1.44	20	
1,2,3-Trichlorobenzene	38.5			ug/L	50.0	0.00	77.0	72.7-125	0.772	20	
1,2,3-Trichloropropane	48.7			ug/L	50.0	0.00	97.3	75-120	3.06	20	
1,2,4-Trichlorobenzene	39.4			ug/L	50.0	0.00	78.8	70-125	0.105	20	
1,2,4-Trimethylbenzene	49.8			ug/L	50.0	0.00	99.5	75-120	1.39	20	
1,2-Dibromo-3-chloropropane	43.4			ug/L	50.0	0.00	86.7	70-130	0.118	20	
1,2-Dibromoethane (EDB)	50.4			ug/L	50.0	0.00	101	80-120	3.15	20	
1,2-Dichlorobenzene	47.6			ug/L	50.0	0.00	95.2	75-125	2.80	20	
1,2-Dichloroethane	45.1			ug/L	50.0	0.00	90.2	80-120	3.12	20	
1,2-Dichloropropane	48.0			ug/L	50.0	0.00	96.0	80-120	2.59	20	
1,3,5-Trimethylbenzene	49.9			ug/L	50.0	0.00	99.8	75-120	3.32	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,3-Dichlorobenzene	49.8			ug/L	50.0	0.00	99.5	75-125	3.17	20	
1,3-Dichloropropane	49.0			ug/L	50.0	0.00	98.1	80-120	2.64	20	
1,4-Dichlorobenzene	48.7			ug/L	50.0	0.00	97.3	75-125	3.44	20	
2,2-Dichloropropane	40.2			ug/L	50.0	0.00	80.5	60-135	2.52	20	
2-Butanone	43.6			ug/L	50.0	0.00	87.2	80-120	0.705	20	
2-Chlorotoluene	48.8			ug/L	50.0	0.00	97.6	75-120	3.65	20	
4-Chlorotoluene	49.2			ug/L	50.0	0.00	98.3	75-120	3.16	20	
Acetone	40.1			ug/L	50.0	0.00	80.1	80-120	0.0809	20	
Allyl chloride	45.5			ug/L	50.0	0.00	90.9	80-120	0.542	20	
Benzene	48.3			ug/L	50.0	0.00	96.6	80-120	5.69	20	
Bromobenzene	50.2			ug/L	50.0	0.00	100	75-120	4.05	20	
Bromochloromethane	46.8			ug/L	50.0	0.00	93.5	78.9-122	2.86	20	
Bromodichloromethane	48.3			ug/L	50.0	0.00	96.5	80-120	1.76	20	
Bromoform	49.8			ug/L	50.0	0.00	99.7	80-120	2.24	20	
Bromomethane	51.6			ug/L	50.0	0.00	103	70-130	0.669	20	
Carbon tetrachloride	48.8			ug/L	50.0	0.00	97.6	80-120	3.56	20	
Chlorobenzene	51.3			ug/L	50.0	0.00	103	80-120	2.28	20	
Chloroethane	53.0			ug/L	50.0	0.00	106	75-130	0.730	20	
Chloroform	47.2			ug/L	50.0	0.00	94.4	80-120	1.57	20	
Chloromethane	46.9			ug/L	50.0	0.00	93.9	70-130	3.02	20	
cis-1,2-Dichloroethene	48.4			ug/L	50.0	0.00	96.9	80-120	1.73	20	
cis-1,3-Dichloropropene	47.5			ug/L	50.0	0.00	95.0	78.1-120	1.41	20	
Dibromochloromethane	50.8			ug/L	50.0	0.00	102	80-120	2.59	20	
Dibromomethane	46.8			ug/L	50.0	0.00	93.7	80-120	3.73	20	
Dichlorodifluoromethane	45.1			ug/L	50.0	0.00	90.2	70-130	4.67	20	
Dichlorofluoromethane	52.2			ug/L	50.0	0.00	104	80-120	3.93	20	
Ethyl ether	48.3			ug/L	50.0	0.00	96.7	80-120	0.629	20	
Ethylbenzene	49.7			ug/L	50.0	0.00	99.5	80-120	3.34	20	
Hexachlorobutadiene	42.2			ug/L	50.0	0.00	84.5	70-130	1.16	20	
Isopropylbenzene	50.7			ug/L	50.0	0.00	101	75-120	3.42	20	
m,p-Xylene	104			ug/L	100	0.00	104	80-120	4.09	20	
Methyl isobutyl ketone	45.8			ug/L	50.0	0.00	91.6	80-120	6.63	20	
Methyl tert-butyl ether	47.8			ug/L	50.0	0.00	95.6	80-120	0.337	20	
Methylene chloride	47.0			ug/L	50.0	0.00	94.0	75-125	0.429	20	
Naphthalene	38.6			ug/L	50.0	0.00	77.2	71.3-125	2.93	20	
n-Butylbenzene	46.3			ug/L	50.0	0.00	92.6	73.8-125	2.63	20	
n-Propylbenzene	50.0			ug/L	50.0	0.00	99.9	75-120	3.92	20	
o-Xylene	52.7			ug/L	50.0	0.00	105	80-120	2.44	20	
p-Isopropyltoluene	48.8			ug/L	50.0	0.00	97.6	75-125	2.71	20	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

sec-Butylbenzene	49.8			ug/L	50.0	0.00	99.5	75-120	2.67	20	
Styrene	51.9			ug/L	50.0	0.00	104	80-120	3.93	20	
tert-Butylbenzene	50.3			ug/L	50.0	0.00	101	75-120	2.29	20	
Tetrachloroethene	49.8			ug/L	50.0	0.00	99.6	80-120	1.89	20	
Tetrahydrofuran	43.2			ug/L	50.0	0.00	86.4	80-120	3.52	20	
Toluene	49.7			ug/L	50.0	0.00	99.4	80-120	2.96	20	
trans-1,2-Dichloroethene	47.7			ug/L	50.0	0.00	95.4	80-120	0.915	20	
trans-1,3-Dichloropropene	47.8			ug/L	50.0	0.00	95.6	80-120	1.20	20	
Trichloroethene	48.9			ug/L	50.0	0.00	97.7	80-120	1.38	20	
Trichlorofluoromethane	52.6			ug/L	50.0	0.00	105	70-130	1.79	20	
Vinyl chloride	47.1			ug/L	50.0	0.00	94.1	74.8-130	3.82	20	
Surrogate: 4-Bromofluorobenzene	48.0			ug/L	48.1		99.8	80-124			
Surrogate: Dibromofluoromethane	48.7			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.5			ug/L	48.1		101	78.1-125			

Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	< 0.20	0.20	0.020	mg/kg wet
1,1,1-Trichloroethane	< 0.20	0.20	0.023	mg/kg wet
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.016	mg/kg wet
1,1,2-Trichloroethane	< 0.20	0.20	0.014	mg/kg wet
1,1,2-Trichlorotrifluoroethane	< 0.20	0.20	0.020	mg/kg wet
1,1-Dichloroethane	< 0.20	0.20	0.0097	mg/kg wet
1,1-Dichloroethene	< 0.20	0.20	0.013	mg/kg wet
1,1-Dichloropropene	< 0.20	0.20	0.015	mg/kg wet
1,2,3-Trichlorobenzene	< 0.50	0.50	0.097	mg/kg wet
1,2,3-Trichloropropane	< 0.20	0.20	0.030	mg/kg wet
1,2,4-Trichlorobenzene	< 0.50	0.50	0.071	mg/kg wet
1,2,4-Trimethylbenzene	< 0.20	0.20	0.018	mg/kg wet
1,2-Dibromo-3-chloropropane	< 0.50	0.50	0.046	mg/kg wet
1,2-Dibromoethane (EDB)	< 0.20	0.20	0.024	mg/kg wet
1,2-Dichlorobenzene	< 0.20	0.20	0.013	mg/kg wet
1,2-Dichloroethane	< 0.20	0.20	0.022	mg/kg wet
1,2-Dichloropropane	< 0.20	0.20	0.021	mg/kg wet
1,3,5-Trimethylbenzene	< 0.20	0.20	0.025	mg/kg wet
1,3-Dichlorobenzene	< 0.20	0.20	0.0090	mg/kg wet
1,3-Dichloropropane	< 0.20	0.20	0.015	mg/kg wet
1,4-Dichlorobenzene	< 0.20	0.20	0.016	mg/kg wet
2,2-Dichloropropane	< 0.20	0.20	0.052	mg/kg wet
2-Butanone	< 1.0	1.0	0.094	mg/kg wet



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

2-Chlorotoluene	< 0.20	0.20	0.020	mg/kg wet							
4-Chlorotoluene	< 0.20	0.20	0.022	mg/kg wet							
Acetone	< 1.0	1.0	0.12	mg/kg wet							
Allyl chloride	< 0.20	0.20	0.025	mg/kg wet							
Benzene	< 0.20	0.20	0.015	mg/kg wet							
Bromobenzene	< 0.20	0.20	0.020	mg/kg wet							
Bromochloromethane	< 0.20	0.20	0.023	mg/kg wet							
Bromodichloromethane	< 0.20	0.20	0.019	mg/kg wet							
Bromoform	< 0.20	0.20	0.036	mg/kg wet							
Bromomethane	< 0.20	0.20	0.030	mg/kg wet							
Carbon tetrachloride	< 0.20	0.20	0.025	mg/kg wet							
Chlorobenzene	< 0.20	0.20	0.014	mg/kg wet							
Chloroethane	< 0.20	0.20	0.030	mg/kg wet							
Chloroform	< 0.20	0.20	0.031	mg/kg wet							
Chloromethane	< 0.20	0.20	0.027	mg/kg wet							
cis-1,2-Dichloroethene	< 0.20	0.20	0.012	mg/kg wet							
cis-1,3-Dichloropropene	< 0.20	0.20	0.025	mg/kg wet							
Dibromochloromethane	< 0.20	0.20	0.025	mg/kg wet							
Dibromomethane	< 0.20	0.20	0.025	mg/kg wet							
Dichlorodifluoromethane	< 0.20	0.20	0.037	mg/kg wet							
Dichlorofluoromethane	< 0.20	0.20	0.010	mg/kg wet							
Ethyl ether	< 0.20	0.20	0.024	mg/kg wet							
Ethylbenzene	< 0.20	0.20	0.021	mg/kg wet							
Hexachlorobutadiene	< 0.50	0.50	0.079	mg/kg wet							
Isopropylbenzene	< 0.20	0.20	0.030	mg/kg wet							
m,p-Xylene	< 0.40	0.40	0.048	mg/kg wet							
Methyl isobutyl ketone	< 0.20	0.20	0.043	mg/kg wet							
Methyl tert-butyl ether	< 0.20	0.20	0.0097	mg/kg wet							
Methylene chloride	< 0.50	0.50	0.060	mg/kg wet							
Naphthalene	< 0.50	0.50	0.048	mg/kg wet							
n-Butylbenzene	< 0.20	0.20	0.016	mg/kg wet							
n-Propylbenzene	< 0.20	0.20	0.010	mg/kg wet							
o-Xylene	< 0.20	0.20	0.017	mg/kg wet							
p-Isopropyltoluene	< 0.20	0.20	0.011	mg/kg wet							
sec-Butylbenzene	< 0.20	0.20	0.022	mg/kg wet							
Styrene	< 0.20	0.20	0.016	mg/kg wet							
tert-Butylbenzene	< 0.20	0.20	0.026	mg/kg wet							
Tetrachloroethene	< 0.20	0.20	0.038	mg/kg wet							
Tetrahydrofuran	< 1.0	1.0	0.11	mg/kg wet							



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

Toluene	< 0.20	0.20	0.0068	mg/kg wet							
trans-1,2-Dichloroethene	< 0.20	0.20	0.018	mg/kg wet							
trans-1,3-Dichloropropene	< 0.20	0.20	0.020	mg/kg wet							
Trichloroethene	< 0.20	0.20	0.018	mg/kg wet							
Trichlorofluoromethane	< 0.20	0.20	0.029	mg/kg wet							
Vinyl chloride	< 0.20	0.20	0.021	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	46.8			ug/L	48.1		97.3	80-124			
Surrogate: Dibromofluoromethane	48.4			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.4			ug/L	48.1		101	78.1-125			

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	51.2			ug/L	50.0		102	80-120			
1,1,1-Trichloroethane	47.1			ug/L	50.0		94.2	80-120			
1,1,2,2-Tetrachloroethane	50.8			ug/L	50.0		102	75-120			
1,1,2-Trichloroethane	51.2			ug/L	50.0		102	80-120			
1,1,2-Trichlorotrifluoroethane	48.4			ug/L	50.0		96.9	80-120			
1,1-Dichloroethane	47.2			ug/L	50.0		94.5	79.6-120			
1,1-Dichloroethene	45.9			ug/L	50.0		91.7	78.3-120			
1,1-Dichloropropene	48.3			ug/L	50.0		96.5	80-120			
1,2,3-Trichlorobenzene	42.1			ug/L	50.0		84.1	75-125			
1,2,3-Trichloropropane	50.0			ug/L	50.0		100	75.8-120			
1,2,4-Trichlorobenzene	42.5			ug/L	50.0		84.9	75-125			
1,2,4-Trimethylbenzene	50.4			ug/L	50.0		101	79.6-120			
1,2-Dibromo-3-chloropropane	46.3			ug/L	50.0		92.7	75-125			
1,2-Dibromoethane (EDB)	51.1			ug/L	50.0		102	80-120			
1,2-Dichlorobenzene	50.4			ug/L	50.0		101	75-125			
1,2-Dichloroethane	45.2			ug/L	50.0		90.4	80-120			
1,2-Dichloropropane	48.6			ug/L	50.0		97.3	80-120			
1,3,5-Trimethylbenzene	50.4			ug/L	50.0		101	77-120			
1,3-Dichlorobenzene	51.1			ug/L	50.0		102	75-125			
1,3-Dichloropropane	50.4			ug/L	50.0		101	80-120			
1,4-Dichlorobenzene	50.3			ug/L	50.0		101	75-125			
2,2-Dichloropropane	49.0			ug/L	50.0		98.0	60-137			
2-Butanone	50.5			ug/L	50.0		101	80-120			
2-Chlorotoluene	49.7			ug/L	50.0		99.4	75.9-120			
4-Chlorotoluene	49.2			ug/L	50.0		98.3	75.3-120			
Acetone	45.1			ug/L	50.0		90.2	80-120			
Allyl chloride	47.6			ug/L	50.0		95.1	80-120			
Benzene	49.7			ug/L	50.0		99.5	80-120			
Bromobenzene	50.3			ug/L	50.0		101	76.6-120			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

Bromochloromethane	48.0			ug/L	50.0		95.9	80-120			
Bromodichloromethane	49.6			ug/L	50.0		99.3	80-120			
Bromoform	52.1			ug/L	50.0		104	80-120			
Bromomethane	51.6			ug/L	50.0		103	74.7-130			
Carbon tetrachloride	50.5			ug/L	50.0		101	80-120			
Chlorobenzene	51.2			ug/L	50.0		102	80-120			
Chloroethane	54.6			ug/L	50.0		109	75-130			
Chloroform	47.3			ug/L	50.0		94.5	80-120			
Chloromethane	50.1			ug/L	50.0		100	70-130			
cis-1,2-Dichloroethene	49.7			ug/L	50.0		99.3	80-120			
cis-1,3-Dichloropropene	49.8			ug/L	50.0		99.5	80-120			
Dibromochloromethane	51.5			ug/L	50.0		103	80-120			
Dibromomethane	48.4			ug/L	50.0		96.9	80-120			
Dichlorodifluoromethane	47.2			ug/L	50.0		94.5	70-130			
Dichlorofluoromethane	53.3			ug/L	50.0		107	80-120			
Ethyl ether	48.9			ug/L	50.0		97.8	80-120			
Ethylbenzene	49.6			ug/L	50.0		99.2	80-120			
Hexachlorobutadiene	44.1			ug/L	50.0		88.3	70-130			
Isopropylbenzene	51.9			ug/L	50.0		104	76.4-120			
m,p-Xylene	105			ug/L	100		105	80-120			
Methyl isobutyl ketone	51.6			ug/L	50.0		103	80-120			
Methyl tert-butyl ether	49.2			ug/L	50.0		98.3	80-120			
Methylene chloride	46.9			ug/L	50.0		93.8	75-122			
Naphthalene	41.5			ug/L	50.0		82.9	75-125			
n-Butylbenzene	48.8			ug/L	50.0		97.5	75-125			
n-Propylbenzene	50.0			ug/L	50.0		100	75-120			
o-Xylene	52.2			ug/L	50.0		104	80-120			
p-Isopropyltoluene	50.2			ug/L	50.0		100	75-125			
sec-Butylbenzene	49.9			ug/L	50.0		99.9	76.6-120			
Styrene	52.3			ug/L	50.0		105	80-120			
tert-Butylbenzene	51.0			ug/L	50.0		102	76.5-120			
Tetrachloroethene	50.1			ug/L	50.0		100	80-120			
Tetrahydrofuran	47.7			ug/L	50.0		95.4	80-120			
Toluene	51.3			ug/L	50.0		103	80-120			
trans-1,2-Dichloroethene	49.1			ug/L	50.0		98.2	80-120			
trans-1,3-Dichloropropene	49.9			ug/L	50.0		99.7	79.2-120			
Trichloroethene	48.5			ug/L	50.0		97.0	80-120			
Trichlorofluoromethane	52.4			ug/L	50.0		105	75-130			
Vinyl chloride	49.1			ug/L	50.0		98.1	75-130			



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

Surrogate: 4-Bromofluorobenzene	47.9			ug/L	48.1		99.5	80-124			
Surrogate: Dibromofluoromethane	48.0			ug/L	48.1		99.9	77.1-123			
Surrogate: Toluene-d8	48.4			ug/L	48.1		101	78.1-125			

Matrix Spike (B6K2922-MS1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.4			ug/L	50.0	0.00	105	80-120			
1,1,1-Trichloroethane	49.6			ug/L	50.0	0.00	99.1	80-120			
1,1,2,2-Tetrachloroethane	49.4			ug/L	50.0	0.00	98.8	75-125			
1,1,2-Trichloroethane	51.7			ug/L	50.0	0.00	103	80-120			
1,1,2-Trichlorotrifluoroethane	49.8			ug/L	50.0	0.00	99.6	80-120			
1,1-Dichloroethane	48.9			ug/L	50.0	0.00	97.7	78.7-123			
1,1-Dichloroethene	46.8			ug/L	50.0	0.00	93.7	75.8-121			
1,1-Dichloropropene	49.4			ug/L	50.0	0.00	98.8	80-120			
1,2,3-Trichlorobenzene	46.6			ug/L	50.0	0.00	93.2	72.7-125			
1,2,3-Trichloropropane	49.9			ug/L	50.0	0.00	99.9	75-120			
1,2,4-Trichlorobenzene	47.2			ug/L	50.0	0.00	94.3	70-125			
1,2,4-Trimethylbenzene	51.1			ug/L	50.0	0.00	102	75-120			
1,2-Dibromo-3-chloropropane	46.8			ug/L	50.0	0.00	93.6	70-130			
1,2-Dibromoethane (EDB)	50.4			ug/L	50.0	0.00	101	80-120			
1,2-Dichlorobenzene	51.1			ug/L	50.0	0.00	102	75-125			
1,2-Dichloroethane	47.6			ug/L	50.0	0.00	95.3	80-120			
1,2-Dichloropropane	51.5			ug/L	50.0	0.00	103	80-120			
1,3,5-Trimethylbenzene	50.7			ug/L	50.0	0.00	101	75-120			
1,3-Dichlorobenzene	51.9			ug/L	50.0	0.00	104	75-125			
1,3-Dichloropropane	49.5			ug/L	50.0	0.00	99.0	80-120			
1,4-Dichlorobenzene	50.7			ug/L	50.0	0.00	101	75-125			
2,2-Dichloropropane	51.0			ug/L	50.0	0.00	102	60-135			
2-Butanone	45.2			ug/L	50.0	0.00	90.3	80-120			
2-Chlorotoluene	50.6			ug/L	50.0	0.00	101	75-120			
4-Chlorotoluene	49.6			ug/L	50.0	0.00	99.3	75-120			
Acetone	41.0			ug/L	50.0	0.00	82.0	80-120			
Allyl chloride	49.1			ug/L	50.0	0.00	98.2	80-120			
Benzene	51.2			ug/L	50.0	0.00	102	80-120			
Bromobenzene	50.7			ug/L	50.0	0.00	101	75-120			
Bromochloromethane	49.6			ug/L	50.0	0.00	99.1	78.9-122			
Bromodichloromethane	51.0			ug/L	50.0	0.00	102	80-120			
Bromoform	52.3			ug/L	50.0	0.00	105	80-120			
Bromomethane	50.5			ug/L	50.0	0.00	101	70-130			
Carbon tetrachloride	52.1			ug/L	50.0	0.00	104	80-120			
Chlorobenzene	53.0			ug/L	50.0	0.00	106	80-120			



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550 Cleveland Ave N
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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2922-MS1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

Chloroethane	54.2			ug/L	50.0	0.00	108	75-130			
Chloroform	49.0			ug/L	50.0	0.00	98.1	80-120			
Chloromethane	50.1			ug/L	50.0	0.00	100	70-130			
cis-1,2-Dichloroethene	51.0			ug/L	50.0	0.00	102	80-120			
cis-1,3-Dichloropropene	51.2			ug/L	50.0	0.00	102	78.1-120			
Dibromochloromethane	50.9			ug/L	50.0	0.00	102	80-120			
Dibromomethane	50.0			ug/L	50.0	0.00	100	80-120			
Dichlorodifluoromethane	47.1			ug/L	50.0	0.00	94.3	70-130			
Dichlorofluoromethane	53.4			ug/L	50.0	0.00	107	80-120			
Ethyl ether	49.4			ug/L	50.0	0.00	98.7	80-120			
Ethylbenzene	50.5			ug/L	50.0	0.00	101	80-120			
Hexachlorobutadiene	50.9			ug/L	50.0	0.00	102	70-130			
Isopropylbenzene	50.6			ug/L	50.0	0.00	101	75-120			
m,p-Xylene	107			ug/L	100	0.00	107	80-120			
Methyl isobutyl ketone	50.8			ug/L	50.0	0.00	102	80-120			
Methyl tert-butyl ether	50.1			ug/L	50.0	0.00	100	80-120			
Methylene chloride	48.9			ug/L	50.0	0.00	97.8	75-125			
Naphthalene	45.4			ug/L	50.0	0.00	90.8	71.3-125			
n-Butylbenzene	50.0			ug/L	50.0	0.00	100	73.8-125			
n-Propylbenzene	50.7			ug/L	50.0	0.00	101	75-120			
o-Xylene	54.2			ug/L	50.0	0.00	108	80-120			
p-Isopropyltoluene	51.2			ug/L	50.0	0.00	102	75-125			
sec-Butylbenzene	51.2			ug/L	50.0	0.00	102	75-120			
Styrene	53.4			ug/L	50.0	0.00	107	80-120			
tert-Butylbenzene	51.7			ug/L	50.0	0.00	103	75-120			
Tetrachloroethene	51.3			ug/L	50.0	0.00	103	80-120			
Tetrahydrofuran	44.3			ug/L	50.0	0.00	88.5	80-120			
Toluene	53.0			ug/L	50.0	0.00	106	80-120			
trans-1,2-Dichloroethene	50.6			ug/L	50.0	0.00	101	80-120			
trans-1,3-Dichloropropene	52.0			ug/L	50.0	0.00	104	80-120			
Trichloroethene	51.3			ug/L	50.0	0.00	103	80-120			
Trichlorofluoromethane	53.6			ug/L	50.0	0.00	107	70-130			
Vinyl chloride	50.0			ug/L	50.0	0.00	100	74.8-130			
Surrogate: 4-Bromofluorobenzene	48.3			ug/L	48.1		100	80-124			
Surrogate: Dibromofluoromethane	48.8			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	49.0			ug/L	48.1		102	78.1-125			

Matrix Spike Dup (B6K2922-MSD1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.9			ug/L	50.0	0.00	106	80-120	0.952	20	
1,1,1-Trichloroethane	46.9			ug/L	50.0	0.00	93.9	80-120	5.44	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2922-MSD1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,2,2-Tetrachloroethane	49.7			ug/L	50.0	0.00	99.3	75-125	0.503	20	
1,1,2-Trichloroethane	49.8			ug/L	50.0	0.00	99.7	80-120	3.58	20	
1,1,2-Trichlorotrifluoroethane	49.1			ug/L	50.0	0.00	98.3	80-120	1.34	20	
1,1-Dichloroethane	46.7			ug/L	50.0	0.00	93.5	78.7-123	4.46	20	
1,1-Dichloroethene	46.1			ug/L	50.0	0.00	92.2	75.8-121	1.57	20	
1,1-Dichloropropene	47.7			ug/L	50.0	0.00	95.4	80-120	3.53	20	
1,2,3-Trichlorobenzene	47.1			ug/L	50.0	0.00	94.2	72.7-125	1.09	20	
1,2,3-Trichloropropane	49.1			ug/L	50.0	0.00	98.3	75-120	1.62	20	
1,2,4-Trichlorobenzene	47.5			ug/L	50.0	0.00	94.9	70-125	0.623	20	
1,2,4-Trimethylbenzene	50.7			ug/L	50.0	0.00	101	75-120	0.885	20	
1,2-Dibromo-3-chloropropane	47.8			ug/L	50.0	0.00	95.6	70-130	2.13	20	
1,2-Dibromoethane (EDB)	52.7			ug/L	50.0	0.00	105	80-120	4.44	20	
1,2-Dichlorobenzene	51.2			ug/L	50.0	0.00	102	75-125	0.163	20	
1,2-Dichloroethane	47.2			ug/L	50.0	0.00	94.5	80-120	0.833	20	
1,2-Dichloropropane	50.0			ug/L	50.0	0.00	100	80-120	2.95	20	
1,3,5-Trimethylbenzene	50.9			ug/L	50.0	0.00	102	75-120	0.338	20	
1,3-Dichlorobenzene	50.4			ug/L	50.0	0.00	101	75-125	2.85	20	
1,3-Dichloropropane	50.8			ug/L	50.0	0.00	102	80-120	2.64	20	
1,4-Dichlorobenzene	50.1			ug/L	50.0	0.00	100	75-125	1.06	20	
2,2-Dichloropropane	47.5			ug/L	50.0	0.00	95.0	60-135	7.15	20	
2-Butanone	47.4			ug/L	50.0	0.00	94.8	80-120	4.81	20	
2-Chlorotoluene	51.0			ug/L	50.0	0.00	102	75-120	0.824	20	
4-Chlorotoluene	49.8			ug/L	50.0	0.00	99.5	75-120	0.268	20	
Acetone	41.1			ug/L	50.0	0.00	82.3	80-120	0.263	20	
Allyl chloride	47.8			ug/L	50.0	0.00	95.5	80-120	2.78	20	
Benzene	50.3			ug/L	50.0	0.00	101	80-120	1.76	20	
Bromobenzene	50.8			ug/L	50.0	0.00	102	75-120	0.221	20	
Bromochloromethane	47.8			ug/L	50.0	0.00	95.5	78.9-122	3.73	20	
Bromodichloromethane	49.1			ug/L	50.0	0.00	98.2	80-120	3.87	20	
Bromoform	52.3			ug/L	50.0	0.00	105	80-120	0.0759	20	
Bromomethane	49.6			ug/L	50.0	0.00	99.3	70-130	1.67	20	
Carbon tetrachloride	50.1			ug/L	50.0	0.00	100	80-120	3.86	20	
Chlorobenzene	53.1			ug/L	50.0	0.00	106	80-120	0.275	20	
Chloroethane	52.4			ug/L	50.0	0.00	105	75-130	3.38	20	
Chloroform	47.5			ug/L	50.0	0.00	95.0	80-120	3.16	20	
Chloromethane	47.7			ug/L	50.0	0.00	95.4	70-130	4.82	20	
cis-1,2-Dichloroethene	48.9			ug/L	50.0	0.00	97.7	80-120	4.36	20	
cis-1,3-Dichloropropene	50.9			ug/L	50.0	0.00	102	78.1-120	0.700	20	
Dibromochloromethane	52.6			ug/L	50.0	0.00	105	80-120	3.25	20	



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2922-MSD1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

Dibromomethane	49.9			ug/L	50.0	0.00	99.8	80-120	0.153	20	
Dichlorodifluoromethane	45.5			ug/L	50.0	0.00	91.1	70-130	3.47	20	
Dichlorofluoromethane	52.2			ug/L	50.0	0.00	104	80-120	2.40	20	
Ethyl ether	48.8			ug/L	50.0	0.00	97.6	80-120	1.13	20	
Ethylbenzene	51.8			ug/L	50.0	0.00	104	80-120	2.43	20	
Hexachlorobutadiene	52.0			ug/L	50.0	0.00	104	70-130	1.99	20	
Isopropylbenzene	50.9			ug/L	50.0	0.00	102	75-120	0.669	20	
m,p-Xylene	108			ug/L	100	0.00	108	80-120	1.14	20	
Methyl isobutyl ketone	51.7			ug/L	50.0	0.00	103	80-120	1.67	20	
Methyl tert-butyl ether	48.6			ug/L	50.0	0.00	97.3	80-120	2.93	20	
Methylene chloride	47.6			ug/L	50.0	0.00	95.1	75-125	2.80	20	
Naphthalene	45.8			ug/L	50.0	0.00	91.6	71.3-125	0.948	20	
n-Butylbenzene	50.4			ug/L	50.0	0.00	101	73.8-125	0.656	20	
n-Propylbenzene	51.0			ug/L	50.0	0.00	102	75-120	0.628	20	
o-Xylene	54.7			ug/L	50.0	0.00	109	80-120	0.940	20	
p-Isopropyltoluene	50.2			ug/L	50.0	0.00	100	75-125	1.94	20	
sec-Butylbenzene	51.1			ug/L	50.0	0.00	102	75-120	0.235	20	
Styrene	54.3			ug/L	50.0	0.00	109	80-120	1.55	20	
tert-Butylbenzene	51.2			ug/L	50.0	0.00	102	75-120	0.970	20	
Tetrachloroethene	51.9			ug/L	50.0	0.00	104	80-120	1.08	20	
Tetrahydrofuran	47.3			ug/L	50.0	0.00	94.5	80-120	6.56	20	
Toluene	52.0			ug/L	50.0	0.00	104	80-120	1.87	20	
trans-1,2-Dichloroethene	48.2			ug/L	50.0	0.00	96.3	80-120	4.96	20	
trans-1,3-Dichloropropene	51.3			ug/L	50.0	0.00	103	80-120	1.32	20	
Trichloroethene	50.6			ug/L	50.0	0.00	101	80-120	1.40	20	
Trichlorofluoromethane	52.2			ug/L	50.0	0.00	104	70-130	2.51	20	
Vinyl chloride	48.1			ug/L	50.0	0.00	96.2	74.8-130	3.88	20	
Surrogate: 4-Bromofluorobenzene	49.3			ug/L	48.1		102	80-124			
Surrogate: Dibromofluoromethane	48.7			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.8			ug/L	48.1		101	78.1-125			



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 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2923-BLK1)

Prepared: 11/29/16 Analyzed: 11/30/16

1,1,1,2-Tetrachloroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1,1-Trichloroethane	< 0.20	0.20	0.023	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.016	mg/kg wet							
1,1,2-Trichloroethane	< 0.20	0.20	0.014	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1-Dichloroethane	< 0.20	0.20	0.0097	mg/kg wet							
1,1-Dichloroethene	< 0.20	0.20	0.013	mg/kg wet							
1,1-Dichloropropene	< 0.20	0.20	0.015	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.50	0.50	0.097	mg/kg wet							
1,2,3-Trichloropropane	< 0.20	0.20	0.030	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.50	0.50	0.071	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.20	0.20	0.018	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.50	0.50	0.046	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.20	0.20	0.024	mg/kg wet							
1,2-Dichlorobenzene	< 0.20	0.20	0.013	mg/kg wet							
1,2-Dichloroethane	< 0.20	0.20	0.022	mg/kg wet							
1,2-Dichloropropane	< 0.20	0.20	0.021	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.20	0.20	0.025	mg/kg wet							
1,3-Dichlorobenzene	< 0.20	0.20	0.0090	mg/kg wet							
1,3-Dichloropropane	< 0.20	0.20	0.015	mg/kg wet							
1,4-Dichlorobenzene	< 0.20	0.20	0.016	mg/kg wet							
2,2-Dichloropropane	< 0.20	0.20	0.052	mg/kg wet							
2-Butanone	< 1.0	1.0	0.094	mg/kg wet							
2-Chlorotoluene	< 0.20	0.20	0.020	mg/kg wet							
4-Chlorotoluene	< 0.20	0.20	0.022	mg/kg wet							
Acetone	< 1.0	1.0	0.12	mg/kg wet							
Allyl chloride	< 0.20	0.20	0.025	mg/kg wet							
Benzene	< 0.20	0.20	0.015	mg/kg wet							
Bromobenzene	< 0.20	0.20	0.020	mg/kg wet							
Bromochloromethane	< 0.20	0.20	0.023	mg/kg wet							
Bromodichloromethane	< 0.20	0.20	0.019	mg/kg wet							
Bromoform	< 0.20	0.20	0.036	mg/kg wet							
Bromomethane	< 0.20	0.20	0.030	mg/kg wet							
Carbon tetrachloride	< 0.20	0.20	0.025	mg/kg wet							
Chlorobenzene	< 0.20	0.20	0.014	mg/kg wet							
Chloroethane	< 0.20	0.20	0.030	mg/kg wet							
Chloroform	< 0.20	0.20	0.031	mg/kg wet							
Chloromethane	< 0.20	0.20	0.027	mg/kg wet							
cis-1,2-Dichloroethene	< 0.20	0.20	0.012	mg/kg wet							



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2923-BLK1)

Prepared: 11/29/16 Analyzed: 11/30/16

cis-1,3-Dichloropropene	< 0.20	0.20	0.025	mg/kg wet							
Dibromochloromethane	< 0.20	0.20	0.025	mg/kg wet							
Dibromomethane	< 0.20	0.20	0.025	mg/kg wet							
Dichlorodifluoromethane	< 0.20	0.20	0.037	mg/kg wet							
Dichlorofluoromethane	< 0.20	0.20	0.010	mg/kg wet							
Ethyl ether	< 0.20	0.20	0.024	mg/kg wet							
Ethylbenzene	< 0.20	0.20	0.021	mg/kg wet							
Hexachlorobutadiene	< 0.50	0.50	0.079	mg/kg wet							
Isopropylbenzene	< 0.20	0.20	0.030	mg/kg wet							
m,p-Xylene	< 0.40	0.40	0.048	mg/kg wet							
Methyl isobutyl ketone	< 0.20	0.20	0.043	mg/kg wet							
Methyl tert-butyl ether	< 0.20	0.20	0.0097	mg/kg wet							
Methylene chloride	< 0.50	0.50	0.060	mg/kg wet							
Naphthalene	< 0.50	0.50	0.048	mg/kg wet							
n-Butylbenzene	< 0.20	0.20	0.016	mg/kg wet							
n-Propylbenzene	< 0.20	0.20	0.010	mg/kg wet							
o-Xylene	< 0.20	0.20	0.017	mg/kg wet							
p-Isopropyltoluene	< 0.20	0.20	0.011	mg/kg wet							
sec-Butylbenzene	< 0.20	0.20	0.022	mg/kg wet							
Styrene	< 0.20	0.20	0.016	mg/kg wet							
tert-Butylbenzene	< 0.20	0.20	0.026	mg/kg wet							
Tetrachloroethene	< 0.20	0.20	0.038	mg/kg wet							
Tetrahydrofuran	< 1.0	1.0	0.11	mg/kg wet							
Toluene	< 0.20	0.20	0.0068	mg/kg wet							
trans-1,2-Dichloroethene	< 0.20	0.20	0.018	mg/kg wet							
trans-1,3-Dichloropropene	< 0.20	0.20	0.020	mg/kg wet							
Trichloroethene	< 0.20	0.20	0.018	mg/kg wet							
Trichlorofluoromethane	< 0.20	0.20	0.029	mg/kg wet							
Vinyl chloride	< 0.20	0.20	0.021	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	48.1			ug/L	48.1		99.9	80-124			
Surrogate: Dibromofluoromethane	49.4			ug/L	48.1		103	77.1-123			
Surrogate: Toluene-d8	48.5			ug/L	48.1		101	78.1-125			

LCS (B6K2923-BS1)

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	50.0			ug/L	50.0		100	80-120			
1,1,1-Trichloroethane	48.8			ug/L	50.0		97.7	80-120			
1,1,2,2-Tetrachloroethane	46.8			ug/L	50.0		93.6	75-120			
1,1,2-Trichloroethane	49.9			ug/L	50.0		99.8	80-120			
1,1,2-Trichlorotrifluoroethane	49.4			ug/L	50.0		98.8	80-120			
1,1-Dichloroethane	47.6			ug/L	50.0		95.1	79.6-120			

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2923-BS1)

Prepared & Analyzed: 11/29/16

1,1-Dichloroethene	46.4			ug/L	50.0		92.9	78.3-120			
1,1-Dichloropropene	48.7			ug/L	50.0		97.4	80-120			
1,2,3-Trichlorobenzene	45.7			ug/L	50.0		91.3	75-125			
1,2,3-Trichloropropane	46.7			ug/L	50.0		93.4	75.8-120			
1,2,4-Trichlorobenzene	46.3			ug/L	50.0		92.6	75-125			
1,2,4-Trimethylbenzene	48.2			ug/L	50.0		96.5	79.6-120			
1,2-Dibromo-3-chloropropane	47.8			ug/L	50.0		95.6	75-125			
1,2-Dibromoethane (EDB)	50.7			ug/L	50.0		101	80-120			
1,2-Dichlorobenzene	49.7			ug/L	50.0		99.3	75-125			
1,2-Dichloroethane	45.5			ug/L	50.0		91.1	80-120			
1,2-Dichloropropane	49.6			ug/L	50.0		99.2	80-120			
1,3,5-Trimethylbenzene	48.5			ug/L	50.0		96.9	77-120			
1,3-Dichlorobenzene	49.7			ug/L	50.0		99.4	75-125			
1,3-Dichloropropane	49.2			ug/L	50.0		98.4	80-120			
1,4-Dichlorobenzene	49.1			ug/L	50.0		98.1	75-125			
2,2-Dichloropropane	45.3			ug/L	50.0		90.6	60-137			
2-Butanone	44.7			ug/L	50.0		89.4	80-120			
2-Chlorotoluene	47.1			ug/L	50.0		94.2	75.9-120			
4-Chlorotoluene	46.9			ug/L	50.0		93.9	75.3-120			
Acetone	40.1			ug/L	50.0		80.3	80-120			
Allyl chloride	46.9			ug/L	50.0		93.8	80-120			
Benzene	50.1			ug/L	50.0		100	80-120			
Bromobenzene	49.3			ug/L	50.0		98.6	76.6-120			
Bromochloromethane	49.1			ug/L	50.0		98.2	80-120			
Bromodichloromethane	49.0			ug/L	50.0		98.0	80-120			
Bromoform	52.2			ug/L	50.0		104	80-120			
Bromomethane	51.5			ug/L	50.0		103	74.7-130			
Carbon tetrachloride	49.9			ug/L	50.0		99.7	80-120			
Chlorobenzene	52.0			ug/L	50.0		104	80-120			
Chloroethane	52.8			ug/L	50.0		106	75-130			
Chloroform	48.1			ug/L	50.0		96.2	80-120			
Chloromethane	47.7			ug/L	50.0		95.5	70-130			
cis-1,2-Dichloroethene	49.4			ug/L	50.0		98.9	80-120			
cis-1,3-Dichloropropene	49.7			ug/L	50.0		99.4	80-120			
Dibromochloromethane	50.8			ug/L	50.0		102	80-120			
Dibromomethane	49.0			ug/L	50.0		98.1	80-120			
Dichlorodifluoromethane	47.0			ug/L	50.0		94.1	70-130			
Dichlorofluoromethane	53.8			ug/L	50.0		108	80-120			
Ethyl ether	48.3			ug/L	50.0		96.5	80-120			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2923-BS1)

Prepared & Analyzed: 11/29/16

Ethylbenzene	50.0			ug/L	50.0		100	80-120			
Hexachlorobutadiene	48.4			ug/L	50.0		96.8	70-130			
Isopropylbenzene	48.6			ug/L	50.0		97.2	76.4-120			
m,p-Xylene	106			ug/L	100		106	80-120			
Methyl isobutyl ketone	49.8			ug/L	50.0		99.7	80-120			
Methyl tert-butyl ether	48.9			ug/L	50.0		97.9	80-120			
Methylene chloride	48.2			ug/L	50.0		96.4	75-122			
Naphthalene	44.8			ug/L	50.0		89.6	75-125			
n-Butylbenzene	47.4			ug/L	50.0		94.9	75-125			
n-Propylbenzene	47.6			ug/L	50.0		95.2	75-120			
o-Xylene	52.6			ug/L	50.0		105	80-120			
p-Isopropyltoluene	48.7			ug/L	50.0		97.4	75-125			
sec-Butylbenzene	48.6			ug/L	50.0		97.1	76.6-120			
Styrene	52.8			ug/L	50.0		106	80-120			
tert-Butylbenzene	49.0			ug/L	50.0		98.0	76.5-120			
Tetrachloroethene	50.0			ug/L	50.0		100	80-120			
Tetrahydrofuran	47.3			ug/L	50.0		94.7	80-120			
Toluene	51.1			ug/L	50.0		102	80-120			
trans-1,2-Dichloroethene	48.8			ug/L	50.0		97.6	80-120			
trans-1,3-Dichloropropene	50.0			ug/L	50.0		100	79.2-120			
Trichloroethene	49.4			ug/L	50.0		98.8	80-120			
Trichlorofluoromethane	54.7			ug/L	50.0		109	75-130			
Vinyl chloride	49.0			ug/L	50.0		98.1	75-130			
Surrogate: 4-Bromofluorobenzene	49.1			ug/L	48.1		102	80-124			
Surrogate: Dibromofluoromethane	49.9			ug/L	48.1		104	77.1-123			
Surrogate: Toluene-d8	49.2			ug/L	48.1		102	78.1-125			

Matrix Spike (B6K2923-MS1)

Source: 1605055-08

Prepared: 11/29/16 Analyzed: 11/30/16

1,1,1,2-Tetrachloroethane	51.7			ug/L	50.0	0.00	103	80-120			
1,1,1-Trichloroethane	47.6			ug/L	50.0	0.00	95.2	80-120			
1,1,2,2-Tetrachloroethane	46.9			ug/L	50.0	0.00	93.7	75-125			
1,1,2-Trichloroethane	49.2			ug/L	50.0	0.00	98.4	80-120			
1,1,2-Trichlorotrifluoroethane	48.6			ug/L	50.0	0.00	97.2	80-120			
1,1-Dichloroethane	47.1			ug/L	50.0	0.00	94.3	78.7-123			
1,1-Dichloroethene	45.4			ug/L	50.0	0.00	90.9	75.8-121			
1,1-Dichloropropene	47.6			ug/L	50.0	0.00	95.2	80-120			
1,2,3-Trichlorobenzene	43.3			ug/L	50.0	0.00	86.5	72.7-125			
1,2,3-Trichloropropane	46.5			ug/L	50.0	0.00	93.0	75-120			
1,2,4-Trichlorobenzene	44.3			ug/L	50.0	0.00	88.6	70-125			
1,2,4-Trimethylbenzene	47.9			ug/L	50.0	0.00	95.8	75-120			

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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2923-MS1)

Source: 1605055-08

Prepared: 11/29/16 Analyzed: 11/30/16

1,2-Dibromo-3-chloropropane	46.2			ug/L	50.0	0.00	92.5	70-130			
1,2-Dibromoethane (EDB)	51.2			ug/L	50.0	0.00	102	80-120			
1,2-Dichlorobenzene	48.2			ug/L	50.0	0.00	96.4	75-125			
1,2-Dichloroethane	45.5			ug/L	50.0	0.00	90.9	80-120			
1,2-Dichloropropane	47.7			ug/L	50.0	0.00	95.3	80-120			
1,3,5-Trimethylbenzene	48.5			ug/L	50.0	0.00	97.1	75-120			
1,3-Dichlorobenzene	49.4			ug/L	50.0	0.00	98.8	75-125			
1,3-Dichloropropane	49.2			ug/L	50.0	0.00	98.3	80-120			
1,4-Dichlorobenzene	48.9			ug/L	50.0	0.00	97.7	75-125			
2,2-Dichloropropane	43.2			ug/L	50.0	0.00	86.3	60-135			
2-Butanone	42.2			ug/L	50.0	0.00	84.4	80-120			
2-Chlorotoluene	46.9			ug/L	50.0	0.00	93.9	75-120			
4-Chlorotoluene	47.9			ug/L	50.0	0.00	95.8	75-120			
Acetone	40.4			ug/L	50.0	0.00	80.8	80-120			
Allyl chloride	46.1			ug/L	50.0	0.00	92.2	80-120			
Benzene	49.3			ug/L	50.0	0.00	98.7	80-120			
Bromobenzene	49.4			ug/L	50.0	0.00	98.8	75-120			
Bromochloromethane	47.5			ug/L	50.0	0.00	95.0	78.9-122			
Bromodichloromethane	48.7			ug/L	50.0	0.00	97.5	80-120			
Bromoform	52.3			ug/L	50.0	0.00	105	80-120			
Bromomethane	51.4			ug/L	50.0	0.00	103	70-130			
Carbon tetrachloride	50.4			ug/L	50.0	0.00	101	80-120			
Chlorobenzene	52.2			ug/L	50.0	0.00	104	80-120			
Chloroethane	54.1			ug/L	50.0	0.00	108	75-130			
Chloroform	47.1			ug/L	50.0	0.00	94.2	80-120			
Chloromethane	49.5			ug/L	50.0	0.00	99.0	70-130			
cis-1,2-Dichloroethene	49.5			ug/L	50.0	0.00	99.0	80-120			
cis-1,3-Dichloropropene	48.5			ug/L	50.0	0.00	96.9	78.1-120			
Dibromochloromethane	50.4			ug/L	50.0	0.00	101	80-120			
Dibromomethane	48.2			ug/L	50.0	0.00	96.5	80-120			
Dichlorodifluoromethane	46.6			ug/L	50.0	0.00	93.1	70-130			
Dichlorofluoromethane	53.9			ug/L	50.0	0.00	108	80-120			
Ethyl ether	47.6			ug/L	50.0	0.00	95.3	80-120			
Ethylbenzene	50.0			ug/L	50.0	0.00	100	80-120			
Hexachlorobutadiene	48.4			ug/L	50.0	0.00	96.8	70-130			
Isopropylbenzene	48.5			ug/L	50.0	0.00	97.1	75-120			
m,p-Xylene	106			ug/L	100	0.00	106	80-120			
Methyl isobutyl ketone	48.9			ug/L	50.0	0.00	97.7	80-120			
Methyl tert-butyl ether	48.4			ug/L	50.0	0.00	96.8	80-120			



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2923-MS1)

Source: 1605055-08

Prepared: 11/29/16 Analyzed: 11/30/16

Methylene chloride	47.1			ug/L	50.0	0.00	94.3	75-125			
Naphthalene	43.1			ug/L	50.0	0.00	86.3	71.3-125			
n-Butylbenzene	46.2			ug/L	50.0	0.00	92.5	73.8-125			
n-Propylbenzene	47.9			ug/L	50.0	0.00	95.7	75-120			
o-Xylene	53.1			ug/L	50.0	0.00	106	80-120			
p-Isopropyltoluene	48.0			ug/L	50.0	0.00	95.9	75-125			
sec-Butylbenzene	48.9			ug/L	50.0	0.00	97.7	75-120			
Styrene	53.1			ug/L	50.0	0.00	106	80-120			
tert-Butylbenzene	49.1			ug/L	50.0	0.00	98.2	75-120			
Tetrachloroethene	49.9			ug/L	50.0	0.00	99.8	80-120			
Tetrahydrofuran	45.1			ug/L	50.0	0.00	90.3	80-120			
Toluene	50.4			ug/L	50.0	0.00	101	80-120			
trans-1,2-Dichloroethene	48.2			ug/L	50.0	0.00	96.3	80-120			
trans-1,3-Dichloropropene	48.6			ug/L	50.0	0.00	97.2	80-120			
Trichloroethene	49.3			ug/L	50.0	0.00	98.6	80-120			
Trichlorofluoromethane	55.3			ug/L	50.0	0.00	111	70-130			
Vinyl chloride	49.5			ug/L	50.0	0.00	99.0	74.8-130			
Surrogate: 4-Bromofluorobenzene	48.5			ug/L	48.1		101	80-124			
Surrogate: Dibromofluoromethane	48.0			ug/L	48.1		99.8	77.1-123			
Surrogate: Toluene-d8	48.1			ug/L	48.1		100	78.1-125			

Matrix Spike Dup (B6K2923-MSD1)

Source: 1605055-08

Prepared: 11/29/16 Analyzed: 11/30/16

1,1,1,2-Tetrachloroethane	52.5			ug/L	50.0	0.00	105	80-120	1.44	20	
1,1,1-Trichloroethane	48.0			ug/L	50.0	0.00	96.0	80-120	0.886	20	
1,1,2,2-Tetrachloroethane	47.1			ug/L	50.0	0.00	94.1	75-125	0.416	20	
1,1,2-Trichloroethane	50.0			ug/L	50.0	0.00	99.9	80-120	1.53	20	
1,1,2-Trichlorotrifluoroethane	48.1			ug/L	50.0	0.00	96.1	80-120	1.09	20	
1,1-Dichloroethane	46.3			ug/L	50.0	0.00	92.6	78.7-123	1.83	20	
1,1-Dichloroethene	45.2			ug/L	50.0	0.00	90.4	75.8-121	0.460	20	
1,1-Dichloropropene	47.1			ug/L	50.0	0.00	94.3	80-120	0.964	20	
1,2,3-Trichlorobenzene	44.4			ug/L	50.0	0.00	88.8	72.7-125	2.61	20	
1,2,3-Trichloropropane	47.0			ug/L	50.0	0.00	94.1	75-120	1.12	20	
1,2,4-Trichlorobenzene	44.9			ug/L	50.0	0.00	89.9	70-125	1.46	20	
1,2,4-Trimethylbenzene	49.5			ug/L	50.0	0.00	98.9	75-120	3.21	20	
1,2-Dibromo-3-chloropropane	46.7			ug/L	50.0	0.00	93.3	70-130	0.947	20	
1,2-Dibromoethane (EDB)	51.9			ug/L	50.0	0.00	104	80-120	1.30	20	
1,2-Dichlorobenzene	49.6			ug/L	50.0	0.00	99.2	75-125	2.86	20	
1,2-Dichloroethane	46.3			ug/L	50.0	0.00	92.5	80-120	1.79	20	
1,2-Dichloropropane	48.9			ug/L	50.0	0.00	97.9	80-120	2.67	20	
1,3,5-Trimethylbenzene	48.9			ug/L	50.0	0.00	97.8	75-120	0.698	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



88 Empire Drive
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Fax: 651-642-1239

American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605055
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2923 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2923-MSD1)

Source: 1605055-08

Prepared: 11/29/16 Analyzed: 11/30/16

1,3-Dichlorobenzene	49.8			ug/L	50.0	0.00	99.6	75-125	0.783	20	
1,3-Dichloropropane	49.4			ug/L	50.0	0.00	98.9	80-120	0.561	20	
1,4-Dichlorobenzene	49.3			ug/L	50.0	0.00	98.6	75-125	0.890	20	
2,2-Dichloropropane	41.7			ug/L	50.0	0.00	83.3	60-135	3.54	20	
2-Butanone	43.9			ug/L	50.0	0.00	87.8	80-120	3.90	20	
2-Chlorotoluene	48.2			ug/L	50.0	0.00	96.3	75-120	2.59	20	
4-Chlorotoluene	48.3			ug/L	50.0	0.00	96.7	75-120	0.916	20	
Acetone	40.8			ug/L	50.0	0.00	81.6	80-120	0.949	20	
Allyl chloride	46.7			ug/L	50.0	0.00	93.4	80-120	1.28	20	
Benzene	49.7			ug/L	50.0	0.00	99.5	80-120	0.831	20	
Bromobenzene	49.8			ug/L	50.0	0.00	99.5	75-120	0.763	20	
Bromochloromethane	47.5			ug/L	50.0	0.00	95.1	78.9-122	0.103	20	
Bromodichloromethane	49.8			ug/L	50.0	0.00	99.6	80-120	2.11	20	
Bromoform	51.8			ug/L	50.0	0.00	104	80-120	1.00	20	
Bromomethane	47.2			ug/L	50.0	0.00	94.5	70-130	8.51	20	
Carbon tetrachloride	50.2			ug/L	50.0	0.00	100	80-120	0.383	20	
Chlorobenzene	51.9			ug/L	50.0	0.00	104	80-120	0.635	20	
Chloroethane	51.3			ug/L	50.0	0.00	103	75-130	5.18	20	
Chloroform	48.2			ug/L	50.0	0.00	96.4	80-120	2.27	20	
Chloromethane	47.6			ug/L	50.0	0.00	95.1	70-130	4.01	20	
cis-1,2-Dichloroethene	49.9			ug/L	50.0	0.00	99.8	80-120	0.768	20	
cis-1,3-Dichloropropene	48.7			ug/L	50.0	0.00	97.4	78.1-120	0.427	20	
Dibromochloromethane	50.9			ug/L	50.0	0.00	102	80-120	0.880	20	
Dibromomethane	48.1			ug/L	50.0	0.00	96.2	80-120	0.320	20	
Dichlorodifluoromethane	44.2			ug/L	50.0	0.00	88.4	70-130	5.16	20	
Dichlorofluoromethane	51.5			ug/L	50.0	0.00	103	80-120	4.46	20	
Ethyl ether	47.5			ug/L	50.0	0.00	95.0	80-120	0.306	20	
Ethylbenzene	50.2			ug/L	50.0	0.00	100	80-120	0.392	20	
Hexachlorobutadiene	47.5			ug/L	50.0	0.00	95.0	70-130	1.81	20	
Isopropylbenzene	50.0			ug/L	50.0	0.00	100	75-120	3.00	20	
m,p-Xylene	107			ug/L	100	0.00	107	80-120	0.778	20	
Methyl isobutyl ketone	50.1			ug/L	50.0	0.00	100	80-120	2.60	20	
Methyl tert-butyl ether	48.9			ug/L	50.0	0.00	97.9	80-120	1.14	20	
Methylene chloride	47.9			ug/L	50.0	0.00	95.9	75-125	1.66	20	
Naphthalene	43.8			ug/L	50.0	0.00	87.6	71.3-125	1.53	20	
n-Butylbenzene	47.3			ug/L	50.0	0.00	94.6	73.8-125	2.24	20	
n-Propylbenzene	48.2			ug/L	50.0	0.00	96.4	75-120	0.734	20	
o-Xylene	53.1			ug/L	50.0	0.00	106	80-120	0.118	20	
p-Isopropyltoluene	49.0			ug/L	50.0	0.00	98.0	75-125	2.12	20	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605055
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2923 - EPA 5035 Soil (Purge and Trap)											
Matrix Spike Dup (B6K2923-MSD1)		Source: 1605055-08			Prepared: 11/29/16		Analyzed: 11/30/16				
sec-Butylbenzene	49.7			ug/L	50.0	0.00	99.4	75-120	1.72	20	
Styrene	52.3			ug/L	50.0	0.00	105	80-120	1.55	20	
tert-Butylbenzene	49.7			ug/L	50.0	0.00	99.4	75-120	1.26	20	
Tetrachloroethene	49.9			ug/L	50.0	0.00	99.7	80-120	0.0672	20	
Tetrahydrofuran	44.1			ug/L	50.0	0.00	88.1	80-120	2.41	20	
Toluene	51.2			ug/L	50.0	0.00	102	80-120	1.55	20	
trans-1,2-Dichloroethene	49.0			ug/L	50.0	0.00	97.9	80-120	1.67	20	
trans-1,3-Dichloropropene	48.6			ug/L	50.0	0.00	97.2	80-120	0.00679	20	
Trichloroethene	49.9			ug/L	50.0	0.00	99.8	80-120	1.17	20	
Trichlorofluoromethane	53.0			ug/L	50.0	0.00	106	70-130	4.21	20	
Vinyl chloride	47.0			ug/L	50.0	0.00	94.1	74.8-130	5.05	20	
Surrogate: 4-Bromofluorobenzene	47.9			ug/L	48.1		99.5	80-124			
Surrogate: Dibromofluoromethane	48.4			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.5			ug/L	48.1		101	78.1-125			



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605055 Date Reported: 12/20/16
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Notes and Definitions

W-03	The initial sample weight was less than 8.0 grams.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
L1	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit; Equivalent to the method LOD (Limit of Detection)
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)



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No 21437

PAGE 1 OF 2

OTHER

ADDRESS:

PHONE:

1005055

St. Paul Office
 560 Cleveland Ave. N.
 St. Paul, MN 55114
 651-858-0001
 651-659-1379 (fax)



AET PROJECT NUMBER: 03-06069

PROJECT NAME/LOCATION: West Side Flats / St. Paul, MN

AET PROJECT MANAGER: Trey Howard

SEND REPORT TO: Trey Howard

SAMPLED BY (PRINT): Jacob Langstaff & Andy Nelson

SAMPLED BY (SIGNATURE): [Signature]

REQUESTED TURNAROUND TIME: NORMAL RUSH

DATE NEEDED BY:

PRESERVATIVES:	
UNPRESERVED	
MOOH	
HCL	
H2SO4	
HNO3	
FIELD FILTERED Y/N	

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE
1	AGP-1 (0-2)	11/16/10	14:00	Soil
2	AGP-1 (0-2)	11/16/10	14:30	
3	AGP-2 (2-4)	11/16/10	12:34	
4	AGP-2 (0-8)	11/16/10	12:34	
5	AGP-3 (0-8)	11/16/10	12:34	
6	AGP-3 (0-15)	11/16/10	12:34	
7	AGP-4 (8-4)	11/16/10	10:35	
8	AGP-4 (12-15)	11/16/10	10:50	
9	AGP-5 (0-2)	11/16/10	13:20	
10	AGP-5 (8-10)	11/16/10	13:20	
11	AGP-6 (2-4)	11/16/10	14:07	
12	AGP-6 (8-10)	11/16/10	14:16	

NOTE:

3.40c

ANALYSIS	RELINQUISHED BY/AFFILIATION		ACCEPTED BY/AFFILIATION		DATE	TIME	REMARKS
	ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE			
DRG	1-12	Legend/AET	Andy Nelson/AET	11/17/10	14:40	Fill	15 Priority Reliant Metals
GRG	1-12	Legend/AET	Andy Nelson/AET	11/17/10	14:40	natural	15 Priority Reliant Metals
YOLS						Fill	15 Priority Reliant Metals
RBS						natural	15 Priority Reliant Metals
EVOL						Fill	15 Priority Reliant Metals
PALS						natural	15 Priority Reliant Metals
TCLP						Fill	15 Priority Reliant Metals
PH						natural	15 Priority Reliant Metals



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No 21438

PAGE 2 OF 2

OTHER
 ADDRESS: _____
 PHONE: _____
 110055

AMERICAN ENGINEERING TESTING, INC.
 St. Paul Office
 550 Cleveland Ave. N.
 St. Paul, MN 55114
 651-859-8001
 651-659-1379 (fax)

AET PROJECT NUMBER: 03-06069
 PROJECT NAME/LOCATION: West Side Flats / St. Paul, MN
 AET PROJECT MANAGER: Trey Howard
 SEND REPORT TO: Trey Howard
 SAMPLED BY (PRIMA): Jacob Lajstovff + Andy Nelson
 SAMPLER SIGNATURE: [Signature]

REQUESTED TURNAROUND TIME: NORMAL RUSH
 DATE NEEDED BY: _____

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES					FIELD FILTERED Y/N	ANALYSIS	REMARKS	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
						UNPRESERVED	MCH	HCL	H ₂ O	HNO ₃							
13	AGP-DG-Soil	11/16	11:16	Soil	5							DRO Gro Vol 8 PCBs SVOCs PAHs TCDF Hd 13 Krompholter Man			11/17/16	14:40	
14	Top Blank				1											11/17/16	14:40

NOTE:

REVIEWED**By Trey Howard at 11:36 am, Jan 09, 2017**

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December 08, 2016

Mr. Trey Howard
American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Work Order Number: 1605049
RE: 03-06069

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16. If you have any questions concerning this report, please feel free to contact me.

Results are not blank corrected unless noted within the report. Additionally, all QC results meet requirements unless noted.

All samples will be retained by Legend Technical Services, Inc., unless consumed in the analysis, at ambient conditions for 30 days from the date of this report and then discarded unless other arrangements are made. All samples were received in acceptable condition unless otherwise noted.

All test results and QC meet requirements of the 2003 NELAC standard.

MDH (NELAP) Accreditation #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

A handwritten signature in blue ink, appearing to read "Samantha Jaworski", is written over a horizontal line.

Samantha Jaworski
Organic Department Manager
sjaworski@legend-group.com



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGP-1 (10'-15')	1605049-01	Water	11/16/16 14:35	11/17/16 17:05
AGP-2 (13'-17')	1605049-02	Water	11/16/16 13:05	11/17/16 17:05
AGP-3 (12'-17')	1605049-03	Water	11/17/16 09:12	11/17/16 17:05
AGP-4 (11'-21')	1605049-04	Water	11/17/16 10:45	11/17/16 17:05
AGP-5 (5'-10')	1605049-05	Water	11/17/16 13:10	11/17/16 17:05
AGP-6 (14'-19')	1605049-06	Water	11/17/16 14:30	11/17/16 17:05
AGP-Dup	1605049-07	Water	11/16/16 00:00	11/17/16 17:05
Equip. Blank	1605049-08	Water	11/17/16 14:10	11/17/16 17:05
Trip Blank	1605049-09	Water	11/16/16 00:00	11/17/16 17:05

Shipping Container Information

Default Cooler

Temperature (°C): 3.4

Received on ice: Yes

Temperature blank was present

Received on ice pack: No

Received on melt water: No

Ambient: No

Acceptable (IH/ISO only): No

Custody seals: No

Case Narrative:



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

DRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
Diesel Range Organics	<100	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	93.5			70-130 %		"	"	"	"	
AGP-2 (13'-17') (1605049-02) Water Sampled: 11/16/16 13:05 Received: 11/17/16 17:05										
Diesel Range Organics	<100	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	PH2
Surrogate: Triacontane (C-30)	98.7			70-130 %		"	"	"	"	
AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05										
Diesel Range Organics	<100	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	105			70-130 %		"	"	"	"	
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
Diesel Range Organics	<140	140	36	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	PH2
Surrogate: Triacontane (C-30)	106			70-130 %		"	"	"	"	
AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05										
Diesel Range Organics	130	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	104			70-130 %		"	"	"	"	
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
Diesel Range Organics	<100	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	PH2
Surrogate: Triacontane (C-30)	99.7			70-130 %		"	"	"	"	
AGP-Dup (1605049-07) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Diesel Range Organics	170	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	94.0			70-130 %		"	"	"	"	
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
Diesel Range Organics	<100	100	26	ug/L	1	B6K2305	11/23/16	11/29/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	98.5			70-130 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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WI(95) GRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/18/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	115			80-150 %		"	"	"	"	
AGP-2 (13'-17') (1605049-02) Water Sampled: 11/16/16 13:05 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	116			80-150 %		"	"	"	"	
AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	109			80-150 %		"	"	"	"	
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	108			80-150 %		"	"	"	"	
AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	116			80-150 %		"	"	"	"	
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	114			80-150 %		"	"	"	"	
AGP-Dup (1605049-07) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/19/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	115			80-150 %		"	"	"	"	
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/18/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	121			80-150 %		"	"	"	"	
Trip Blank (1605049-09) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Gasoline range organics	<100	100	8.0	ug/L	1	B6K1822	11/18/16	11/18/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	130			80-150 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

DISSOLVED METAL ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.069	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.50	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.086	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.12	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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DISSOLVED METAL ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.058	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
AGP-Dup (1605049-07) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	0.13	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
Arsenic	<0.020	0.020	0.0058	mg/L	1	B6K2905	11/29/16	11/29/16	EPA 6010C (Dissolved)	
Barium	<0.020	0.020	0.0020	mg/L	1	"	"	"	"	"
Cadmium	<0.0010	0.0010	0.00020	mg/L	1	"	"	"	"	"
Chromium	<0.010	0.010	0.00040	mg/L	1	"	"	"	"	"
Lead	<0.015	0.015	0.0036	mg/L	1	"	"	"	"	"
Mercury	<0.010	0.010	0.0025	mg/L	1	"	"	"	"	"
Selenium	<0.050	0.050	0.013	mg/L	1	"	"	"	"	"
Silver	<0.010	0.010	0.0030	mg/L	1	"	"	"	"	"



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05

Aroclor 1016	<2.0	2.0	0.12	ug/L	1	B6K2812	11/28/16	12/06/16	EPA 8082A	
Aroclor 1221	<2.0	2.0	0.58	ug/L	1	"	"	"	"	
Aroclor 1232	<2.0	2.0	0.21	ug/L	1	"	"	"	"	
Aroclor 1242	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1248	<2.0	2.0	0.15	ug/L	1	"	"	"	"	
Aroclor 1254	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1260	<2.0	2.0	0.10	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	99.5			65.6-114 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	98.0			58.9-107 %		"	"	"	"	

AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05

Aroclor 1016	<2.0	2.0	0.12	ug/L	1	B6K2812	11/28/16	12/06/16	EPA 8082A	
Aroclor 1221	<2.0	2.0	0.58	ug/L	1	"	"	"	"	
Aroclor 1232	<2.0	2.0	0.21	ug/L	1	"	"	"	"	
Aroclor 1242	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1248	<2.0	2.0	0.15	ug/L	1	"	"	"	"	
Aroclor 1254	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1260	<2.0	2.0	0.10	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	97.0			65.6-114 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	96.5			58.9-107 %		"	"	"	"	

AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05

Aroclor 1016	<2.0	2.0	0.12	ug/L	1	B6K2812	11/28/16	12/06/16	EPA 8082A	
Aroclor 1221	<2.0	2.0	0.58	ug/L	1	"	"	"	"	
Aroclor 1232	<2.0	2.0	0.21	ug/L	1	"	"	"	"	
Aroclor 1242	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1248	<2.0	2.0	0.15	ug/L	1	"	"	"	"	
Aroclor 1254	<2.0	2.0	0.13	ug/L	1	"	"	"	"	
Aroclor 1260	<2.0	2.0	0.10	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	109			65.6-114 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	102			58.9-107 %		"	"	"	"	

Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05

Aroclor 1016	<1.8	1.8	0.11	ug/L	1	B6K2812	11/28/16	12/06/16	EPA 8082A	
Aroclor 1221	<1.8	1.8	0.53	ug/L	1	"	"	"	"	
Aroclor 1232	<1.8	1.8	0.19	ug/L	1	"	"	"	"	
Aroclor 1242	<1.8	1.8	0.12	ug/L	1	"	"	"	"	
Aroclor 1248	<1.8	1.8	0.14	ug/L	1	"	"	"	"	
Aroclor 1254	<1.8	1.8	0.12	ug/L	1	"	"	"	"	
Aroclor 1260	<1.8	1.8	0.092	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	101			65.6-114 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	98.5			58.9-107 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<9.2	9.2	0.49	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
1,2-Dichlorobenzene	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<9.2	9.2	0.29	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<9.2	9.2	0.29	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<9.2	9.2	0.68	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<9.2	9.2	1.0	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<9.2	9.2	0.75	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<9.2	9.2	0.72	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<9.2	9.2	0.91	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<9.2	9.2	0.64	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<9.2	9.2	0.40	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<9.2	9.2	0.85	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<9.2	9.2	0.36	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<9.2	9.2	0.35	ug/L	1	"	"	"	"	
2-Chlorophenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<9.2	9.2	0.64	ug/L	1	"	"	"	"	
2-Methylphenol	<9.2	9.2	1.3	ug/L	1	"	"	"	"	
2-Nitroaniline	<9.2	9.2	0.76	ug/L	1	"	"	"	"	
2-Nitrophenol	<9.2	9.2	0.79	ug/L	1	"	"	"	"	
3&4-Methylphenol	<9.2	9.2	1.4	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<23	23	9.1	ug/L	1	"	"	"	"	
3-Nitroaniline	<9.2	9.2	1.8	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<9.2	9.2	0.92	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<9.2	9.2	0.62	ug/L	1	"	"	"	"	
4-Chloroaniline	<9.2	9.2	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<9.2	9.2	0.41	ug/L	1	"	"	"	"	
4-Nitroaniline	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
4-Nitrophenol	<9.2	9.2	0.83	ug/L	1	"	"	"	"	
Acenaphthene	<9.2	9.2	0.38	ug/L	1	"	"	"	"	
Acenaphthylene	<9.2	9.2	0.35	ug/L	1	"	"	"	"	
Aniline	<9.2	9.2	1.2	ug/L	1	"	"	"	"	
Anthracene	<9.2	9.2	0.33	ug/L	1	"	"	"	"	
Benzidine	<92	92	7.5	ug/L	1	"	"	"	"	
Benzo(a)anthracene	<9.2	9.2	0.21	ug/L	1	"	"	"	"	
Benzo(a)pyrene	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
Benzo(b)fluoranthene	<9.2	9.2	0.17	ug/L	1	"	"	"	"	
Benzo(g,h,i)perylene	<9.2	9.2	0.39	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<9.2	9.2	0.50	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
Benzoic acid	<9.2	9.2	1.7	ug/L	1	"	"	"	"	
Benzyl alcohol	<9.2	9.2	0.62	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<9.2	9.2	0.38	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<9.2	9.2	0.54	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<9.2	9.2	0.71	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<9.2	9.2	0.61	ug/L	1	"	"	"	"	
Carbazole	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Chrysene	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
Dibenz(a,h)anthracene	<9.2	9.2	0.28	ug/L	1	"	"	"	"	
Dibenzofuran	<9.2	9.2	0.71	ug/L	1	"	"	"	"	
Diethyl phthalate	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Dimethyl phthalate	<9.2	9.2	0.40	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<9.2	9.2	0.44	ug/L	1	"	"	"	"	
Fluoranthene	<9.2	9.2	0.33	ug/L	1	"	"	"	"	
Fluorene	<9.2	9.2	0.32	ug/L	1	"	"	"	"	
Hexachlorobenzene	<9.2	9.2	0.28	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<9.2	9.2	0.34	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<9.2	9.2	0.48	ug/L	1	"	"	"	"	
Hexachloroethane	<9.2	9.2	0.56	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<9.2	9.2	0.34	ug/L	1	"	"	"	"	
Isophorone	<9.2	9.2	0.41	ug/L	1	"	"	"	"	
Naphthalene	<9.2	9.2	0.30	ug/L	1	"	"	"	"	
Nitrobenzene	<9.2	9.2	0.47	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<9.2	9.2	0.50	ug/L	1	"	"	"	"	
Pentachlorophenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
Phenanthrene	<9.2	9.2	0.26	ug/L	1	"	"	"	"	
Phenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
Pyrene	<9.2	9.2	0.45	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	81.1			30-122 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	78.7			39.2-104 %		"	"	"	"	
Surrogate: 2-Fluorophenol	53.6			30-80.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	71.4			51.2-103 %		"	"	"	"	
Surrogate: Phenol-d6	49.7			30-75.3 %		"	"	"	"	
Surrogate: Terphenyl-d14	65.4			30-116 %		"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<11	11	0.59	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
1,2-Dichlorobenzene	<11	11	0.52	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<11	11	0.36	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<11	11	0.48	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<11	11	0.36	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<11	11	0.82	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<11	11	1.2	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<11	11	0.91	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<11	11	0.87	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<11	11	1.1	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<11	11	0.78	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<11	11	0.49	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<11	11	1.0	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<11	11	0.43	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<11	11	0.42	ug/L	1	"	"	"	"	
2-Chlorophenol	<11	11	1.3	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<11	11	0.78	ug/L	1	"	"	"	"	
2-Methylphenol	<11	11	1.6	ug/L	1	"	"	"	"	
2-Nitroaniline	<11	11	0.92	ug/L	1	"	"	"	"	
2-Nitrophenol	<11	11	0.96	ug/L	1	"	"	"	"	
3&4-Methylphenol	<11	11	1.7	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<28	28	11	ug/L	1	"	"	"	"	
3-Nitroaniline	<11	11	2.2	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<11	11	1.1	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<11	11	0.38	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<11	11	0.76	ug/L	1	"	"	"	"	
4-Chloroaniline	<11	11	2.6	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<11	11	0.50	ug/L	1	"	"	"	"	
4-Nitroaniline	<11	11	1.3	ug/L	1	"	"	"	"	
4-Nitrophenol	<11	11	1.0	ug/L	1	"	"	"	"	
Acenaphthene	<11	11	0.46	ug/L	1	"	"	"	"	
Acenaphthylene	<11	11	0.42	ug/L	1	"	"	"	"	
Aniline	<11	11	1.4	ug/L	1	"	"	"	"	
Anthracene	<11	11	0.40	ug/L	1	"	"	"	"	
Benzidine	<110	110	9.1	ug/L	1	"	"	"	"	
Benzo(a)anthracene	<11	11	0.26	ug/L	1	"	"	"	"	
Benzo(a)pyrene	<11	11	0.38	ug/L	1	"	"	"	"	
Benzo(b)fluoranthene	<11	11	0.20	ug/L	1	"	"	"	"	
Benzo(g,h,i)perylene	<11	11	0.48	ug/L	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<11	11	0.61	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
Benzoic acid	<11	11	2.0	ug/L	1	"	"	"	"	
Benzyl alcohol	<11	11	0.76	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<11	11	0.46	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<11	11	0.66	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<11	11	0.52	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<11	11	0.86	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<11	11	0.74	ug/L	1	"	"	"	"	
Carbazole	<11	11	0.47	ug/L	1	"	"	"	"	
Chrysene	<11	11	0.38	ug/L	1	"	"	"	"	
Dibenz(a,h)anthracene	<11	11	0.34	ug/L	1	"	"	"	"	
Dibenzofuran	<11	11	0.86	ug/L	1	"	"	"	"	
Diethyl phthalate	<11	11	0.47	ug/L	1	"	"	"	"	
Dimethyl phthalate	<11	11	0.49	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<11	11	0.47	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<11	11	0.53	ug/L	1	"	"	"	"	
Fluoranthene	<11	11	0.40	ug/L	1	"	"	"	"	
Fluorene	<11	11	0.39	ug/L	1	"	"	"	"	
Hexachlorobenzene	<11	11	0.33	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<11	11	0.41	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<11	11	0.58	ug/L	1	"	"	"	"	
Hexachloroethane	<11	11	0.68	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<11	11	0.41	ug/L	1	"	"	"	"	
Isophorone	<11	11	0.50	ug/L	1	"	"	"	"	
Naphthalene	<11	11	0.37	ug/L	1	"	"	"	"	
Nitrobenzene	<11	11	0.57	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<11	11	0.38	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<11	11	0.52	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<11	11	0.60	ug/L	1	"	"	"	"	
Pentachlorophenol	<11	11	1.3	ug/L	1	"	"	"	"	
Phenanthrene	<11	11	0.31	ug/L	1	"	"	"	"	
Phenol	<11	11	1.3	ug/L	1	"	"	"	"	
Pyrene	<11	11	0.54	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83.2			30-122 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	77.9			39.2-104 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.8			30-80.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.1			51.2-103 %		"	"	"	"	
Surrogate: Phenol-d6	51.7			30-75.3 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.7			30-116 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<10	10	0.53	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
1,2-Dichlorobenzene	<10	10	0.47	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<10	10	0.32	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<10	10	0.43	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<10	10	0.32	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<10	10	0.74	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<10	10	1.1	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<10	10	0.82	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<10	10	0.78	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<10	10	0.99	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<10	10	0.70	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<10	10	0.44	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<10	10	0.93	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<10	10	0.39	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<10	10	0.38	ug/L	1	"	"	"	"	
2-Chlorophenol	<10	10	1.2	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<10	10	0.70	ug/L	1	"	"	"	"	
2-Methylphenol	<10	10	1.4	ug/L	1	"	"	"	"	
2-Nitroaniline	<10	10	0.83	ug/L	1	"	"	"	"	
2-Nitrophenol	<10	10	0.86	ug/L	1	"	"	"	"	
3&4-Methylphenol	<10	10	1.5	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<25	25	9.9	ug/L	1	"	"	"	"	
3-Nitroaniline	<10	10	2.0	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<10	10	1.0	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<10	10	0.34	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<10	10	0.68	ug/L	1	"	"	"	"	
4-Chloroaniline	<10	10	2.3	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<10	10	0.45	ug/L	1	"	"	"	"	
4-Nitroaniline	<10	10	1.2	ug/L	1	"	"	"	"	
4-Nitrophenol	<10	10	0.91	ug/L	1	"	"	"	"	
Acenaphthene	<10	10	0.41	ug/L	1	"	"	"	"	
Acenaphthylene	<10	10	0.38	ug/L	1	"	"	"	"	
Aniline	<10	10	1.3	ug/L	1	"	"	"	"	
Anthracene	<10	10	0.36	ug/L	1	"	"	"	"	
Benzidine	<100	100	8.2	ug/L	1	"	"	"	"	
Benzo(a)anthracene	<10	10	0.23	ug/L	1	"	"	"	"	
Benzo(a)pyrene	<10	10	0.34	ug/L	1	"	"	"	"	
Benzo(b)fluoranthene	<10	10	0.18	ug/L	1	"	"	"	"	
Benzo(g,h,i)perylene	<10	10	0.43	ug/L	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<10	10	0.55	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
Benzoic acid	<10	10	1.8	ug/L	1	"	"	"	"	
Benzyl alcohol	<10	10	0.68	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<10	10	0.41	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<10	10	0.59	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<10	10	0.47	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<10	10	0.77	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<10	10	0.67	ug/L	1	"	"	"	"	
Carbazole	<10	10	0.42	ug/L	1	"	"	"	"	
Chrysene	<10	10	0.34	ug/L	1	"	"	"	"	
Dibenz(a,h)anthracene	<10	10	0.31	ug/L	1	"	"	"	"	
Dibenzofuran	<10	10	0.77	ug/L	1	"	"	"	"	
Diethyl phthalate	<10	10	0.42	ug/L	1	"	"	"	"	
Dimethyl phthalate	<10	10	0.44	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<10	10	0.42	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<10	10	0.48	ug/L	1	"	"	"	"	
Fluoranthene	<10	10	0.36	ug/L	1	"	"	"	"	
Fluorene	<10	10	0.35	ug/L	1	"	"	"	"	
Hexachlorobenzene	<10	10	0.30	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.37	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<10	10	0.52	ug/L	1	"	"	"	"	
Hexachloroethane	<10	10	0.61	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<10	10	0.37	ug/L	1	"	"	"	"	
Isophorone	<10	10	0.45	ug/L	1	"	"	"	"	
Naphthalene	<10	10	0.33	ug/L	1	"	"	"	"	
Nitrobenzene	<10	10	0.51	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<10	10	0.34	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<10	10	0.47	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<10	10	0.54	ug/L	1	"	"	"	"	
Pentachlorophenol	<10	10	1.2	ug/L	1	"	"	"	"	
Phenanthrene	<10	10	0.28	ug/L	1	"	"	"	"	
Phenol	<10	10	1.2	ug/L	1	"	"	"	"	
Pyrene	<10	10	0.49	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	79.2			30-122 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	74.2			39.2-104 %		"	"	"	"	
Surrogate: 2-Fluorophenol	51.2			30-80.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	68.0			51.2-103 %		"	"	"	"	
Surrogate: Phenol-d6	47.9			30-75.3 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.9			30-116 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<9.2	9.2	0.49	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
1,2-Dichlorobenzene	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<9.2	9.2	0.29	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<9.2	9.2	0.29	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<9.2	9.2	0.68	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<9.2	9.2	1.0	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<9.2	9.2	0.75	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<9.2	9.2	0.72	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<9.2	9.2	0.91	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<9.2	9.2	0.64	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<9.2	9.2	0.40	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<9.2	9.2	0.85	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<9.2	9.2	0.36	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<9.2	9.2	0.35	ug/L	1	"	"	"	"	
2-Chlorophenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<9.2	9.2	0.64	ug/L	1	"	"	"	"	
2-Methylphenol	<9.2	9.2	1.3	ug/L	1	"	"	"	"	
2-Nitroaniline	<9.2	9.2	0.76	ug/L	1	"	"	"	"	
2-Nitrophenol	<9.2	9.2	0.79	ug/L	1	"	"	"	"	
3&4-Methylphenol	<9.2	9.2	1.4	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<23	23	9.1	ug/L	1	"	"	"	"	
3-Nitroaniline	<9.2	9.2	1.8	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<9.2	9.2	0.92	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<9.2	9.2	0.62	ug/L	1	"	"	"	"	
4-Chloroaniline	<9.2	9.2	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<9.2	9.2	0.41	ug/L	1	"	"	"	"	
4-Nitroaniline	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
4-Nitrophenol	<9.2	9.2	0.83	ug/L	1	"	"	"	"	
Acenaphthene	<9.2	9.2	0.38	ug/L	1	"	"	"	"	
Acenaphthylene	<9.2	9.2	0.35	ug/L	1	"	"	"	"	
Aniline	<9.2	9.2	1.2	ug/L	1	"	"	"	"	
Anthracene	<9.2	9.2	0.33	ug/L	1	"	"	"	"	
Benzidine	<92	92	7.5	ug/L	1	"	"	"	"	
Benzo(a)anthracene	<9.2	9.2	0.21	ug/L	1	"	"	"	"	
Benzo(a)pyrene	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
Benzo(b)fluoranthene	<9.2	9.2	0.17	ug/L	1	"	"	"	"	
Benzo(g,h,i)perylene	<9.2	9.2	0.39	ug/L	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<9.2	9.2	0.50	ug/L	1	B6K2112	11/21/16	11/21/16	EPA 8270D	
Benzoic acid	<9.2	9.2	1.7	ug/L	1	"	"	"	"	
Benzyl alcohol	<9.2	9.2	0.62	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<9.2	9.2	0.38	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<9.2	9.2	0.54	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<9.2	9.2	0.71	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<9.2	9.2	0.61	ug/L	1	"	"	"	"	
Carbazole	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Chrysene	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
Dibenz(a,h)anthracene	<9.2	9.2	0.28	ug/L	1	"	"	"	"	
Dibenzofuran	<9.2	9.2	0.71	ug/L	1	"	"	"	"	
Diethyl phthalate	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Dimethyl phthalate	<9.2	9.2	0.40	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<9.2	9.2	0.39	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<9.2	9.2	0.44	ug/L	1	"	"	"	"	
Fluoranthene	<9.2	9.2	0.33	ug/L	1	"	"	"	"	
Fluorene	<9.2	9.2	0.32	ug/L	1	"	"	"	"	
Hexachlorobenzene	<9.2	9.2	0.28	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<9.2	9.2	0.34	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<9.2	9.2	0.48	ug/L	1	"	"	"	"	
Hexachloroethane	<9.2	9.2	0.56	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<9.2	9.2	0.34	ug/L	1	"	"	"	"	
Isophorone	<9.2	9.2	0.41	ug/L	1	"	"	"	"	
Naphthalene	<9.2	9.2	0.30	ug/L	1	"	"	"	"	
Nitrobenzene	<9.2	9.2	0.47	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<9.2	9.2	0.31	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<9.2	9.2	0.43	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<9.2	9.2	0.50	ug/L	1	"	"	"	"	
Pentachlorophenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
Phenanthrene	<9.2	9.2	0.26	ug/L	1	"	"	"	"	
Phenol	<9.2	9.2	1.1	ug/L	1	"	"	"	"	
Pyrene	<9.2	9.2	0.45	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	78.4			30-122 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	69.9			39.2-104 %		"	"	"	"	
Surrogate: 2-Fluorophenol	50.4			30-80.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	62.5			51.2-103 %		"	"	"	"	
Surrogate: Phenol-d6	46.7			30-75.3 %		"	"	"	"	
Surrogate: Terphenyl-d14	81.3			30-116 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (10'-15') (1605049-01) Water Sampled: 11/16/16 14:35 Received: 11/17/16 17:05										
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.6			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	98.5			80-120 %		"	"	"	"	

AGP-2 (13'-17') (1605049-02) Water Sampled: 11/16/16 13:05 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	

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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (13'-17') (1605049-02) Water Sampled: 11/16/16 13:05 Received: 11/17/16 17:05										
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (13'-17') (1605049-02) Water Sampled: 11/16/16 13:05 Received: 11/17/16 17:05										
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	

AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05										
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-3 (12'-17') (1605049-03) Water Sampled: 11/17/16 09:12 Received: 11/17/16 17:05										
Methylene chloride	<5.0	5.0	0.10	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	98.6			80-120 %		"	"	"	"	

AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05										
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-4 (11'-21') (1605049-04) Water Sampled: 11/17/16 10:45 Received: 11/17/16 17:05

sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	1.4	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.1			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	

AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05										
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-5 (5'-10') (1605049-05) Water Sampled: 11/17/16 13:10 Received: 11/17/16 17:05

trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	

AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05										
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1			80-121 %		"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AGP-6 (14'-19') (1605049-06) Water Sampled: 11/17/16 14:30 Received: 11/17/16 17:05

Surrogate: Dibromofluoromethane	101		79.9-121 %			B6K2825	11/28/16	11/28/16	EPA 8260B	
Surrogate: Toluene-d8	101		80-120 %			"	"	"	"	

AGP-Dup (1605049-07) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-Dup (1605049-07) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Chloroform	<1.0	1.0	0.056	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip. Blank (1605049-08) Water Sampled: 11/17/16 14:10 Received: 11/17/16 17:05										
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	

Trip Blank (1605049-09) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<1.0	1.0	0.024	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,1,1-Trichloroethane	<1.0	1.0	0.069	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<1.0	1.0	0.051	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<1.0	1.0	0.081	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<1.0	1.0	0.050	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<1.0	1.0	0.065	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<5.0	5.0	0.45	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (1605049-09) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
1,2,3-Trichloropropane	<2.5	2.5	0.056	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
1,2,4-Trichlorobenzene	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<1.0	1.0	0.054	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<5.0	5.0	0.033	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<2.5	2.5	0.042	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<1.0	1.0	0.068	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<1.0	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<1.0	1.0	0.047	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<5.0	5.0	0.28	ug/L	1	"	"	"	"	
2-Butanone	<20	20	0.33	ug/L	1	"	"	"	"	
2-Chlorotoluene	<1.0	1.0	0.052	ug/L	1	"	"	"	"	
4-Chlorotoluene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Acetone	<20	20	0.32	ug/L	1	"	"	"	"	
Allyl chloride	<5.0	5.0	0.078	ug/L	1	"	"	"	"	
Benzene	<1.0	1.0	0.034	ug/L	1	"	"	"	"	
Bromobenzene	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromochloromethane	<1.0	1.0	0.10	ug/L	1	"	"	"	"	
Bromodichloromethane	<1.0	1.0	0.042	ug/L	1	"	"	"	"	
Bromoform	<5.0	5.0	0.080	ug/L	1	"	"	"	"	
Bromomethane	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Carbon tetrachloride	<1.0	1.0	0.029	ug/L	1	"	"	"	"	
Chlorobenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	
Chloroethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
Chloroform	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Chloromethane	<2.5	2.5	0.062	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<1.0	1.0	0.097	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<1.0	1.0	0.041	ug/L	1	"	"	"	"	
Dibromochloromethane	<2.5	2.5	0.070	ug/L	1	"	"	"	"	
Dibromomethane	<2.5	2.5	0.088	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<5.0	5.0	0.14	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<1.0	1.0	0.059	ug/L	1	"	"	"	"	
Ethyl ether	<5.0	5.0	0.091	ug/L	1	"	"	"	"	
Ethylbenzene	<1.0	1.0	0.033	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<10	10	0.19	ug/L	1	"	"	"	"	
Isopropylbenzene	<1.0	1.0	0.037	ug/L	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (1605049-09) Water Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
m,p-Xylene	<2.0	2.0	0.087	ug/L	1	B6K2825	11/28/16	11/28/16	EPA 8260B	
Methyl isobutyl ketone	<5.0	5.0	0.17	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<1.0	1.0	0.056	ug/L	1	"	"	"	"	
Methylene chloride	<5.0	5.0	0.10	ug/L	1	"	"	"	"	
Naphthalene	<5.0	5.0	0.032	ug/L	1	"	"	"	"	
n-Butylbenzene	<2.5	2.5	0.028	ug/L	1	"	"	"	"	
n-Propylbenzene	<1.0	1.0	0.040	ug/L	1	"	"	"	"	
o-Xylene	<1.0	1.0	0.053	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<2.5	2.5	0.052	ug/L	1	"	"	"	"	
sec-Butylbenzene	<1.0	1.0	0.055	ug/L	1	"	"	"	"	
Styrene	<1.0	1.0	0.048	ug/L	1	"	"	"	"	
tert-Butylbenzene	<1.0	1.0	0.028	ug/L	1	"	"	"	"	
Tetrachloroethene	<1.0	1.0	0.035	ug/L	1	"	"	"	"	
Tetrahydrofuran	<20	20	0.34	ug/L	1	"	"	"	"	
Toluene	<1.0	1.0	0.064	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<1.0	1.0	0.058	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<1.0	1.0	0.067	ug/L	1	"	"	"	"	
Trichloroethene	<1.0	1.0	0.096	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<1.0	1.0	0.26	ug/L	1	"	"	"	"	
Vinyl chloride	<1.0	1.0	0.046	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605049 Date Reported: 12/08/16
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DRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2305 - EPA 3510C (Sep Funnel)											
Blank (B6K2305-BLK1)											
						Prepared: 11/23/16 Analyzed: 11/28/16					
Diesel Range Organics	< 100	100	26	ug/L							
Surrogate: <i>Triacontane (C-30)</i>	394			ug/L	400		98.4	70-130			
LCS (B6K2305-BS1)											
						Prepared: 11/23/16 Analyzed: 11/28/16					
Diesel Range Organics	1810	100	26	ug/L	1600	<100	113	75-115			
Surrogate: <i>Triacontane (C-30)</i>	431			ug/L	400		108	70-130			
LCS Dup (B6K2305-BSD1)											
						Prepared: 11/23/16 Analyzed: 11/29/16					
Diesel Range Organics	1740	100	26	ug/L	1600	<100	109	75-115	4.24	20	
Surrogate: <i>Triacontane (C-30)</i>	405			ug/L	400		101	70-130			
Duplicate (B6K2305-DUP1)											
						Source: 1605084-01 Prepared: 11/23/16 Analyzed: 11/29/16					
Diesel Range Organics	79.7	92	24	ug/L		<92			NA	20	
Surrogate: <i>Triacontane (C-30)</i>	398			ug/L	367		108	70-130			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

WI(95) GRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K1822 - EPA 5030 Water (Purge and Trap)											
Blank (B6K1822-BLK1)											
						Prepared & Analyzed: 11/18/16					
Gasoline range organics	< 100	100	8.0	ug/L							
LCS (B6K1822-BS1)											
						Prepared & Analyzed: 11/18/16					
Gasoline range organics	1050	100	8.0	ug/L	1000	<100	105	80-120			
LCS Dup (B6K1822-BSD1)											
						Prepared: 11/18/16 Analyzed: 11/19/16					
Gasoline range organics	1010	100	8.0	ug/L	1000	<100	101	80-120	3.64	20	
Duplicate (B6K1822-DUP1)											
						Source: 1605049-01 Prepared: 11/18/16 Analyzed: 11/19/16					
Gasoline range organics	46.7	100	8.0	ug/L		<100			NA	20	
Surrogate: 4-Fluorochlorobenzene	25.3			ug/L	20.0		127	80-150			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

DISSOLVED METAL ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2905 - EPA 200.7/3005A Digestion

Blank (B6K2905-BLK1)

Prepared & Analyzed: 11/29/16

Arsenic	< 0.020	0.020	0.0058	mg/L							
Barium	< 0.020	0.020	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.00020	mg/L							
Chromium	< 0.010	0.010	0.00040	mg/L							
Lead	< 0.015	0.015	0.0036	mg/L							
Mercury	< 0.010	0.010	0.0025	mg/L							
Selenium	< 0.050	0.050	0.013	mg/L							
Silver	< 0.010	0.010	0.0030	mg/L							

LCS (B6K2905-BS1)

Prepared & Analyzed: 11/29/16

Arsenic	0.414	0.020	0.0058	mg/L	0.399	<0.020	104	80-120			
Barium	0.419	0.020	0.0020	mg/L	0.399	<0.020	105	80-120			
Cadmium	0.421	0.0010	0.00020	mg/L	0.399	<0.0010	106	80-120			
Chromium	0.432	0.010	0.00040	mg/L	0.399	<0.010	108	80-120			
Lead	0.428	0.015	0.0036	mg/L	0.399	<0.015	107	80-120			
Mercury	0.259	0.010	0.0025	mg/L	0.250	<0.010	104	80-120			
Selenium	0.428	0.050	0.013	mg/L	0.399	<0.050	107	80-120			
Silver	0.0417	0.010	0.0030	mg/L	0.0399	<0.010	105	80-120			

LCS Dup (B6K2905-BSD1)

Prepared & Analyzed: 11/29/16

Arsenic	0.408	0.020	0.0058	mg/L	0.399	<0.020	102	80-120	1.46	20	
Barium	0.412	0.020	0.0020	mg/L	0.399	<0.020	103	80-120	1.68	20	
Cadmium	0.414	0.0010	0.00020	mg/L	0.399	<0.0010	104	80-120	1.68	20	
Chromium	0.425	0.010	0.00040	mg/L	0.399	<0.010	107	80-120	1.63	20	
Lead	0.418	0.015	0.0036	mg/L	0.399	<0.015	105	80-120	2.36	20	
Mercury	0.254	0.010	0.0025	mg/L	0.250	<0.010	102	80-120	1.95	20	
Selenium	0.424	0.050	0.013	mg/L	0.399	<0.050	106	80-120	0.939	20	
Silver	0.0413	0.010	0.0030	mg/L	0.0399	<0.010	104	80-120	0.964	20	

Matrix Spike (B6K2905-MS1)

Source: 1605049-08

Prepared & Analyzed: 11/29/16

Arsenic	0.407	0.020	0.0058	mg/L	0.399	<0.020	102	75-125			
Barium	0.410	0.020	0.0020	mg/L	0.399	<0.020	103	75-125			
Cadmium	0.409	0.0010	0.00020	mg/L	0.399	<0.0010	103	75-125			
Chromium	0.423	0.010	0.00040	mg/L	0.399	<0.010	106	75-125			
Lead	0.417	0.015	0.0036	mg/L	0.399	<0.015	105	75-125			
Mercury	0.254	0.010	0.0025	mg/L	0.250	<0.010	102	75-125			
Selenium	0.412	0.050	0.013	mg/L	0.399	<0.050	103	75-125			
Silver	0.0412	0.010	0.0030	mg/L	0.0399	<0.010	103	75-125			

Matrix Spike Dup (B6K2905-MSD1)

Source: 1605049-08

Prepared & Analyzed: 11/29/16

Arsenic	0.410	0.020	0.0058	mg/L	0.399	<0.020	103	75-125	0.734	20	
Barium	0.412	0.020	0.0020	mg/L	0.399	<0.020	103	75-125	0.487	20	



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

DISSOLVED METAL ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2905 - EPA 200.7/3005A Digestion											
Matrix Spike Dup (B6K2905-MSD1)		Source: 1605049-08				Prepared & Analyzed: 11/29/16					
Cadmium	0.411	0.0010	0.00020	mg/L	0.399	<0.0010	103	75-125	0.488	20	
Chromium	0.425	0.010	0.00040	mg/L	0.399	<0.010	107	75-125	0.472	20	
Lead	0.418	0.015	0.0036	mg/L	0.399	<0.015	105	75-125	0.240	20	
Mercury	0.254	0.010	0.0025	mg/L	0.250	<0.010	102	75-125	0.00	200	
Selenium	0.414	0.050	0.013	mg/L	0.399	<0.050	104	75-125	0.484	20	
Silver	0.0412	0.010	0.0030	mg/L	0.0399	<0.010	103	75-125	0.00	20	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

PCB 8082A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2812 - EPA 3510C (Sep Funnel)											
Blank (B6K2812-BLK1)											
						Prepared: 11/28/16 Analyzed: 12/05/16					
Aroclor 1016	< 2.0	2.0	0.12	ug/L							
Aroclor 1221	< 2.0	2.0	0.58	ug/L							
Aroclor 1232	< 2.0	2.0	0.21	ug/L							
Aroclor 1242	< 2.0	2.0	0.13	ug/L							
Aroclor 1248	< 2.0	2.0	0.15	ug/L							
Aroclor 1254	< 2.0	2.0	0.13	ug/L							
Aroclor 1260	< 2.0	2.0	0.10	ug/L							
Surrogate: Decachlorobiphenyl	1.08			ug/L	1.00		108	65.6-114			
Surrogate: Tetrachloro-meta-xylene	0.980			ug/L	1.00		98.0	58.9-107			
LCS (B6K2812-BS1)											
						Prepared: 11/28/16 Analyzed: 12/05/16					
Aroclor 1016	5.23	2.0	0.12	ug/L	5.00	<2.0	105	70-130			
Aroclor 1260	5.26	2.0	0.10	ug/L	5.00	<2.0	105	70-130			
Surrogate: Decachlorobiphenyl	1.14			ug/L	1.00		114	65.6-114			
Surrogate: Tetrachloro-meta-xylene	0.990			ug/L	1.00		99.0	58.9-107			
LCS Dup (B6K2812-BSD1)											
						Prepared: 11/28/16 Analyzed: 12/05/16					
Aroclor 1016	4.69	2.0	0.12	ug/L	5.00	<2.0	93.8	70-130	10.9	20	Q9, QM-10
Aroclor 1260	4.70	2.0	0.10	ug/L	5.00	<2.0	94.0	70-130	11.2	20	
Surrogate: Decachlorobiphenyl	0.990			ug/L	1.00		99.0	65.6-114			
Surrogate: Tetrachloro-meta-xylene	0.885			ug/L	1.00		88.5	58.9-107			
Matrix Spike (B6K2812-MS1)											
						Source: 1605049-08 Prepared: 11/28/16 Analyzed: 12/06/16					
Aroclor 1016	5.11	2.0	0.12	ug/L	4.95	<2.0	103	70-130			
Aroclor 1260	5.05	2.0	0.10	ug/L	4.95	<2.0	102	70-130			
Surrogate: Decachlorobiphenyl	1.06			ug/L	0.990		107	65.6-114			
Surrogate: Tetrachloro-meta-xylene	0.980			ug/L	0.990		99.0	58.9-107			



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2112 - EPA 3510C (Sep Funnel)

Blank (B6K2112-BLK1)

Prepared & Analyzed: 11/21/16

1,2,4-Trichlorobenzene	< 10	10	0.53	ug/L							
1,2-Dichlorobenzene	< 10	10	0.47	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 10	10	0.32	ug/L							
1,3-Dichlorobenzene	< 10	10	0.43	ug/L							
1,4-Dichlorobenzene	< 10	10	0.32	ug/L							
2,3,4,6-Tetrachlorophenol	< 10	10	0.74	ug/L							
2,4,5-Trichlorophenol	< 10	10	1.1	ug/L							
2,4,6-Trichlorophenol	< 10	10	0.82	ug/L							
2,4-Dichlorophenol	< 10	10	0.78	ug/L							
2,4-Dimethylphenol	< 10	10	0.99	ug/L							
2,4-Dinitrophenol	< 10	10	0.70	ug/L							
2,4-Dinitrotoluene	< 10	10	0.44	ug/L							
2,6-Dichlorophenol	< 10	10	0.93	ug/L							
2,6-Dinitrotoluene	< 10	10	0.39	ug/L							
2-Chloronaphthalene	< 10	10	0.38	ug/L							
2-Chlorophenol	< 10	10	1.2	ug/L							
2-Methylnaphthalene	< 10	10	0.70	ug/L							
2-Methylphenol	< 10	10	1.4	ug/L							
2-Nitroaniline	< 10	10	0.83	ug/L							
2-Nitrophenol	< 10	10	0.86	ug/L							
3&4-Methylphenol	< 10	10	1.5	ug/L							
3,3'-Dichlorobenzidine	< 25	25	9.9	ug/L							
3-Nitroaniline	< 10	10	2.0	ug/L							
4,6-Dinitro-2-methylphenol	< 10	10	1.0	ug/L							
4-Bromophenyl phenyl ether	< 10	10	0.34	ug/L							
4-Chloro-3-methylphenol	< 10	10	0.68	ug/L							
4-Chloroaniline	< 10	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 10	10	0.45	ug/L							
4-Nitroaniline	< 10	10	1.2	ug/L							
4-Nitrophenol	< 10	10	0.91	ug/L							
Acenaphthene	< 10	10	0.41	ug/L							
Acenaphthylene	< 10	10	0.38	ug/L							
Aniline	< 10	10	1.3	ug/L							
Anthracene	< 10	10	0.36	ug/L							
Benzidine	< 100	100	8.2	ug/L							
Benzo(a)anthracene	< 10	10	0.23	ug/L							
Benzo(a)pyrene	< 10	10	0.34	ug/L							
Benzo(b)fluoranthene	< 10	10	0.18	ug/L							
Benzo(g,h,i)perylene	< 10	10	0.43	ug/L							



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2112 - EPA 3510C (Sep Funnel)

Blank (B6K2112-BLK1)

Prepared & Analyzed: 11/21/16

Benzo(k)fluoranthene	< 10	10	0.55	ug/L							
Benzoic acid	< 10	10	1.8	ug/L							
Benzyl alcohol	< 10	10	0.68	ug/L							
Bis(2-chloroethoxy)methane	< 10	10	0.41	ug/L							
Bis(2-chloroethyl)ether	< 10	10	0.59	ug/L							
Bis(2-chloroisopropyl)ether	< 10	10	0.47	ug/L							
Bis(2-ethylhexyl)phthalate	< 10	10	0.77	ug/L							
Butyl benzyl phthalate	< 10	10	0.67	ug/L							
Carbazole	< 10	10	0.42	ug/L							
Chrysene	< 10	10	0.34	ug/L							
Dibenz(a,h)anthracene	< 10	10	0.31	ug/L							
Dibenzofuran	< 10	10	0.77	ug/L							
Diethyl phthalate	< 10	10	0.42	ug/L							
Dimethyl phthalate	< 10	10	0.44	ug/L							
Di-n-butyl phthalate	< 10	10	0.42	ug/L							
Di-n-octyl phthalate	< 10	10	0.48	ug/L							
Fluoranthene	< 10	10	0.36	ug/L							
Fluorene	< 10	10	0.35	ug/L							
Hexachlorobenzene	< 10	10	0.30	ug/L							
Hexachlorobutadiene	< 10	10	0.37	ug/L							
Hexachlorocyclopentadiene	< 10	10	0.52	ug/L							
Hexachloroethane	< 10	10	0.61	ug/L							
Indeno (1,2,3-cd) pyrene	< 10	10	0.37	ug/L							
Isophorone	< 10	10	0.45	ug/L							
Naphthalene	< 10	10	0.33	ug/L							
Nitrobenzene	< 10	10	0.51	ug/L							
N-Nitrosodimethylamine	< 10	10	0.34	ug/L							
N-Nitrosodi-n-propylamine	< 10	10	0.47	ug/L							
N-Nitrosodiphenylamine	< 10	10	0.54	ug/L							
Pentachlorophenol	< 10	10	1.2	ug/L							
Phenanthrene	< 10	10	0.28	ug/L							
Phenol	< 10	10	1.2	ug/L							
Pyrene	< 10	10	0.49	ug/L							
Surrogate: 2,4,6-Tribromophenol	85.2			ug/L	100		85.2	30-122			
Surrogate: 2-Fluorobiphenyl	82.2			ug/L	100		82.2	39.2-104			
Surrogate: 2-Fluorophenol	61.8			ug/L	100		61.8	30-80.1			
Surrogate: Nitrobenzene-d5	74.0			ug/L	100		74.0	51.2-103			
Surrogate: Phenol-d6	55.4			ug/L	100		55.4	30-75.3			
Surrogate: Terphenyl-d14	75.2			ug/L	100		75.2	30-116			

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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2112 - EPA 3510C (Sep Funnel)

LCS (B6K2112-BS1)

Prepared: 11/21/16 Analyzed: 11/22/16

1,2,4-Trichlorobenzene	38.5	10	0.53	ug/L	50.0	<10	77.0	38-100			
1,4-Dichlorobenzene	36.4	10	0.32	ug/L	50.0	<10	72.9	30-90			
2,4-Dinitrotoluene	49.1	10	0.44	ug/L	50.0	<10	98.3	57-100			
2-Chlorophenol	36.4	10	1.2	ug/L	50.0	<10	72.7	45-95			
4-Chloro-3-methylphenol	38.5	10	0.68	ug/L	50.0	<10	76.9	52-100			
4-Nitrophenol	40.1	10	0.91	ug/L	50.0	<10	80.3	30-100			
Anthracene	40.3	10	0.36	ug/L	50.0	<10	80.6	60-100			
Benzo(a)anthracene	41.6	10	0.23	ug/L	50.0	<10	83.1	64-100			
Benzo(a)pyrene	41.3	10	0.34	ug/L	50.0	<10	82.6	60-100			
Chrysene	41.7	10	0.34	ug/L	50.0	<10	83.5	60-100			
Fluoranthene	40.3	10	0.36	ug/L	50.0	<10	80.5	63-100			
Fluorene	44.4	10	0.35	ug/L	50.0	<10	88.8	59-100			
N-Nitrosodi-n-propylamine	36.5	10	0.47	ug/L	50.0	<10	73.0	55-100			
Pentachlorophenol	42.3	10	1.2	ug/L	50.0	<10	84.6	45-107			
Phenanthrene	40.7	10	0.28	ug/L	50.0	<10	81.5	62-100			
Phenol	26.0	10	1.2	ug/L	50.0	<10	52.1	30-80			
Surrogate: 2,4,6-Tribromophenol	86.1			ug/L	100		86.1	30-122			
Surrogate: 2-Fluorobiphenyl	77.8			ug/L	100		77.8	39.2-104			
Surrogate: 2-Fluorophenol	58.2			ug/L	100		58.2	30-80.1			
Surrogate: Nitrobenzene-d5	71.5			ug/L	100		71.5	51.2-103			
Surrogate: Phenol-d6	52.9			ug/L	100		52.9	30-75.3			
Surrogate: Terphenyl-d14	78.3			ug/L	100		78.3	30-116			

LCS Dup (B6K2112-BSD1)

Prepared: 11/21/16 Analyzed: 11/22/16

Q9, QM-10

1,2,4-Trichlorobenzene	37.5	10	0.53	ug/L	50.0	<10	75.0	38-100	2.63	20	
1,4-Dichlorobenzene	35.6	10	0.32	ug/L	50.0	<10	71.2	30-90	2.37	20	
2,4-Dinitrotoluene	48.6	10	0.44	ug/L	50.0	<10	97.1	57-100	1.19	20	
2-Chlorophenol	35.6	10	1.2	ug/L	50.0	<10	71.2	45-95	2.06	20	
4-Chloro-3-methylphenol	37.2	10	0.68	ug/L	50.0	<10	74.3	52-100	3.47	20	
4-Nitrophenol	39.8	10	0.91	ug/L	50.0	<10	79.7	30-100	0.744	20	
Anthracene	39.8	10	0.36	ug/L	50.0	<10	79.6	60-100	1.34	20	
Benzo(a)anthracene	41.0	10	0.23	ug/L	50.0	<10	82.1	64-100	1.32	20	
Benzo(a)pyrene	40.4	10	0.34	ug/L	50.0	<10	80.8	60-100	2.18	20	
Chrysene	41.4	10	0.34	ug/L	50.0	<10	82.8	60-100	0.848	20	
Fluoranthene	39.6	10	0.36	ug/L	50.0	<10	79.1	63-100	1.80	20	
Fluorene	43.0	10	0.35	ug/L	50.0	<10	86.1	59-100	3.10	20	
N-Nitrosodi-n-propylamine	35.6	10	0.47	ug/L	50.0	<10	71.2	55-100	2.51	20	
Pentachlorophenol	41.1	10	1.2	ug/L	50.0	<10	82.1	45-107	2.92	20	
Phenanthrene	40.0	10	0.28	ug/L	50.0	<10	80.0	62-100	1.90	20	
Phenol	25.5	10	1.2	ug/L	50.0	<10	51.0	30-80	2.21	20	

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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2112 - EPA 3510C (Sep Funnel)

LCS Dup (B6K2112-BSD1)

Prepared: 11/21/16 Analyzed: 11/22/16

Q9, QM-10

Surrogate: 2,4,6-Tribromophenol	83.1			ug/L	100		83.1	30-122			
Surrogate: 2-Fluorobiphenyl	74.2			ug/L	100		74.2	39.2-104			
Surrogate: 2-Fluorophenol	56.3			ug/L	100		56.3	30-80.1			
Surrogate: Nitrobenzene-d5	68.8			ug/L	100		68.8	51.2-103			
Surrogate: Phenol-d6	51.7			ug/L	100		51.7	30-75.3			
Surrogate: Terphenyl-d14	68.6			ug/L	100		68.6	30-116			

Matrix Spike (B6K2112-MS1)

Source: 1605049-08

Prepared & Analyzed: 11/21/16

1,2,4-Trichlorobenzene	36.7	10	0.53	ug/L	49.0	<10	74.9	30-100			
1,4-Dichlorobenzene	34.8	10	0.32	ug/L	49.0	<10	71.0	30-90			
2,4-Dinitrotoluene	49.0	10	0.44	ug/L	49.0	<10	99.9	30-110			
2-Chlorophenol	34.8	10	1.2	ug/L	49.0	<10	71.0	30-100			
4-Chloro-3-methylphenol	37.5	10	0.68	ug/L	49.0	<10	76.4	30-113			
4-Nitrophenol	40.5	10	0.91	ug/L	49.0	<10	82.6	30-112			
Anthracene	39.7	10	0.36	ug/L	49.0	<10	80.9	30-119			
Benzo(a)anthracene	40.3	10	0.23	ug/L	49.0	<10	82.2	30-122			
Benzo(a)pyrene	39.2	10	0.34	ug/L	49.0	<10	79.9	30-118			
Chrysene	41.1	10	0.34	ug/L	49.0	<10	83.8	30-125			
Fluoranthene	39.6	10	0.36	ug/L	49.0	<10	80.7	30-119			
Fluorene	43.4	10	0.35	ug/L	49.0	<10	88.5	30-107			
N-Nitrosodi-n-propylamine	35.5	10	0.47	ug/L	49.0	<10	72.4	37-100			
Pentachlorophenol	41.0	10	1.2	ug/L	49.0	<10	83.6	30-130			
Phenanthrene	39.9	10	0.28	ug/L	49.0	<10	81.4	30-117			
Phenol	24.4	10	1.2	ug/L	49.0	<10	49.8	30-80			
Surrogate: 2,4,6-Tribromophenol	82.1			ug/L	98.0		83.7	30-122			
Surrogate: 2-Fluorobiphenyl	74.9			ug/L	98.0		76.4	39.2-104			
Surrogate: 2-Fluorophenol	54.5			ug/L	98.0		55.6	30-80.1			
Surrogate: Nitrobenzene-d5	67.8			ug/L	98.0		69.1	51.2-103			
Surrogate: Phenol-d6	49.1			ug/L	98.0		50.1	30-75.3			
Surrogate: Terphenyl-d14	65.7			ug/L	98.0		67.0	30-116			



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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

Blank (B6K2825-BLK1)

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	< 1.0	1.0	0.024	ug/L							
1,1,1-Trichloroethane	< 1.0	1.0	0.069	ug/L							
1,1,2,2-Tetrachloroethane	< 1.0	1.0	0.051	ug/L							
1,1,2-Trichloroethane	< 1.0	1.0	0.10	ug/L							
1,1,2-Trichlorotrifluoroethane	< 1.0	1.0	0.081	ug/L							
1,1-Dichloroethane	< 1.0	1.0	0.050	ug/L							
1,1-Dichloroethene	< 1.0	1.0	0.065	ug/L							
1,1-Dichloropropene	< 1.0	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 5.0	5.0	0.45	ug/L							
1,2,3-Trichloropropane	< 2.5	2.5	0.056	ug/L							
1,2,4-Trichlorobenzene	< 5.0	5.0	0.091	ug/L							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.054	ug/L							
1,2-Dibromo-3-chloropropane	< 5.0	5.0	0.033	ug/L							
1,2-Dibromoethane (EDB)	< 2.5	2.5	0.042	ug/L							
1,2-Dichlorobenzene	< 1.0	1.0	0.052	ug/L							
1,2-Dichloroethane	< 1.0	1.0	0.064	ug/L							
1,2-Dichloropropane	< 1.0	1.0	0.034	ug/L							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.046	ug/L							
1,3-Dichlorobenzene	< 1.0	1.0	0.068	ug/L							
1,3-Dichloropropane	< 1.0	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 1.0	1.0	0.047	ug/L							
2,2-Dichloropropane	< 5.0	5.0	0.28	ug/L							
2-Butanone	< 20	20	0.33	ug/L							
2-Chlorotoluene	< 1.0	1.0	0.052	ug/L							
4-Chlorotoluene	< 1.0	1.0	0.041	ug/L							
Acetone	< 20	20	0.32	ug/L							
Allyl chloride	< 5.0	5.0	0.078	ug/L							
Benzene	< 1.0	1.0	0.034	ug/L							
Bromobenzene	< 1.0	1.0	0.042	ug/L							
Bromochloromethane	< 1.0	1.0	0.10	ug/L							
Bromodichloromethane	< 1.0	1.0	0.042	ug/L							
Bromoform	< 5.0	5.0	0.080	ug/L							
Bromomethane	< 5.0	5.0	0.17	ug/L							
Carbon tetrachloride	< 1.0	1.0	0.029	ug/L							
Chlorobenzene	< 1.0	1.0	0.037	ug/L							
Chloroethane	< 2.5	2.5	0.062	ug/L							
Chloroform	< 1.0	1.0	0.056	ug/L							
Chloromethane	< 2.5	2.5	0.062	ug/L							
cis-1,2-Dichloroethene	< 1.0	1.0	0.097	ug/L							



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

Blank (B6K2825-BLK1)

Prepared & Analyzed: 11/28/16

cis-1,3-Dichloropropene	< 1.0	1.0	0.041	ug/L							
Dibromochloromethane	< 2.5	2.5	0.070	ug/L							
Dibromomethane	< 2.5	2.5	0.088	ug/L							
Dichlorodifluoromethane	< 5.0	5.0	0.14	ug/L							
Dichlorofluoromethane	< 1.0	1.0	0.059	ug/L							
Ethyl ether	< 5.0	5.0	0.091	ug/L							
Ethylbenzene	< 1.0	1.0	0.033	ug/L							
Hexachlorobutadiene	< 10	10	0.19	ug/L							
Isopropylbenzene	< 1.0	1.0	0.037	ug/L							
m,p-Xylene	< 2.0	2.0	0.087	ug/L							
Methyl isobutyl ketone	< 5.0	5.0	0.17	ug/L							
Methyl tert-butyl ether	< 1.0	1.0	0.056	ug/L							
Methylene chloride	< 5.0	5.0	0.10	ug/L							
Naphthalene	< 5.0	5.0	0.032	ug/L							
n-Butylbenzene	< 2.5	2.5	0.028	ug/L							
n-Propylbenzene	< 1.0	1.0	0.040	ug/L							
o-Xylene	< 1.0	1.0	0.053	ug/L							
p-Isopropyltoluene	< 2.5	2.5	0.052	ug/L							
sec-Butylbenzene	< 1.0	1.0	0.055	ug/L							
Styrene	< 1.0	1.0	0.048	ug/L							
tert-Butylbenzene	< 1.0	1.0	0.028	ug/L							
Tetrachloroethene	< 1.0	1.0	0.035	ug/L							
Tetrahydrofuran	< 20	20	0.34	ug/L							
Toluene	< 1.0	1.0	0.064	ug/L							
trans-1,2-Dichloroethene	< 1.0	1.0	0.058	ug/L							
trans-1,3-Dichloropropene	< 1.0	1.0	0.067	ug/L							
Trichloroethene	< 1.0	1.0	0.096	ug/L							
Trichlorofluoromethane	< 1.0	1.0	0.26	ug/L							
Vinyl chloride	< 1.0	1.0	0.046	ug/L							
Surrogate: 4-Bromofluorobenzene	45.9			ug/L	48.1		95.5	80-121			
Surrogate: Dibromofluoromethane	47.9			ug/L	48.1		99.6	79.9-121			
Surrogate: Toluene-d8	47.5			ug/L	48.1		98.8	80-120			

LCS (B6K2825-BS1)

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	53.6	1.0	0.024	ug/L	50.0	<1.0	107	80-120			
1,1,1-Trichloroethane	50.9	1.0	0.069	ug/L	50.0	<1.0	102	80-120			
1,1,2,2-Tetrachloroethane	55.2	1.0	0.051	ug/L	50.0	<1.0	110	80-121			
1,1,2-Trichloroethane	54.2	1.0	0.10	ug/L	50.0	<1.0	108	80-120			
1,1,2-Trichlorotrifluoroethane	52.0	1.0	0.081	ug/L	50.0	<1.0	104	80-120			
1,1-Dichloroethane	50.9	1.0	0.050	ug/L	50.0	<1.0	102	80-125			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

LCS (B6K2825-BS1)

Prepared & Analyzed: 11/28/16

1,1-Dichloroethene	49.6	1.0	0.065	ug/L	50.0	<1.0	99.3	80-125			
1,1-Dichloropropene	52.2	1.0	0.15	ug/L	50.0	<1.0	104	80-123			
1,2,3-Trichlorobenzene	49.2	5.0	0.45	ug/L	50.0	<5.0	98.5	75-125			
1,2,3-Trichloropropane	54.9	2.5	0.056	ug/L	50.0	<2.5	110	80-121			
1,2,4-Trichlorobenzene	49.3	5.0	0.091	ug/L	50.0	<5.0	98.6	75-125			
1,2,4-Trimethylbenzene	52.2	1.0	0.054	ug/L	50.0	<1.0	104	79.6-123			
1,2-Dibromo-3-chloropropane	58.3	5.0	0.033	ug/L	50.0	<5.0	117	75-125			
1,2-Dibromoethane (EDB)	54.1	2.5	0.042	ug/L	50.0	<2.5	108	80-120			
1,2-Dichlorobenzene	53.4	1.0	0.052	ug/L	50.0	<1.0	107	75-125			
1,2-Dichloroethane	50.5	1.0	0.064	ug/L	50.0	<1.0	101	80-120			
1,2-Dichloropropane	52.3	1.0	0.034	ug/L	50.0	<1.0	105	80-120			
1,3,5-Trimethylbenzene	52.0	1.0	0.046	ug/L	50.0	<1.0	104	75.4-125			
1,3-Dichlorobenzene	53.4	1.0	0.068	ug/L	50.0	<1.0	107	80-120			
1,3-Dichloropropane	52.5	1.0	0.15	ug/L	50.0	<1.0	105	80-120			
1,4-Dichlorobenzene	52.5	1.0	0.047	ug/L	50.0	<1.0	105	75-125			
2,2-Dichloropropane	51.5	5.0	0.28	ug/L	50.0	<5.0	103	60-140			
2-Butanone	58.0	20	0.33	ug/L	50.0	<20	116	80-120			
2-Chlorotoluene	51.6	1.0	0.052	ug/L	50.0	<1.0	103	75.4-125			
4-Chlorotoluene	51.2	1.0	0.041	ug/L	50.0	<1.0	102	75.8-125			
Acetone	54.3	20	0.32	ug/L	50.0	<20	109	80-120			
Allyl chloride	49.9	5.0	0.078	ug/L	50.0	<5.0	99.9	80-120			
Benzene	53.0	1.0	0.034	ug/L	50.0	<1.0	106	80-120			
Bromobenzene	52.8	1.0	0.042	ug/L	50.0	<1.0	106	78.8-120			
Bromochloromethane	51.7	1.0	0.10	ug/L	50.0	<1.0	103	79.3-125			
Bromodichloromethane	53.8	1.0	0.042	ug/L	50.0	<1.0	108	80-120			
Bromoform	55.1	5.0	0.080	ug/L	50.0	<5.0	110	80-120			
Bromomethane	53.3	5.0	0.17	ug/L	50.0	<5.0	107	70-130			
Carbon tetrachloride	52.9	1.0	0.029	ug/L	50.0	<1.0	106	80-121			
Chlorobenzene	53.7	1.0	0.037	ug/L	50.0	<1.0	107	80-120			
Chloroethane	52.6	2.5	0.062	ug/L	50.0	<2.5	105	75-130			
Chloroform	51.3	1.0	0.056	ug/L	50.0	<1.0	103	80-123			
Chloromethane	48.0	2.5	0.062	ug/L	50.0	<2.5	96.1	75-130			
cis-1,2-Dichloroethene	53.5	1.0	0.097	ug/L	50.0	<1.0	107	80-122			
cis-1,3-Dichloropropene	53.7	1.0	0.041	ug/L	50.0	<1.0	107	80-120			
Dibromochloromethane	53.4	2.5	0.070	ug/L	50.0	<2.5	107	80-120			
Dibromomethane	54.4	2.5	0.088	ug/L	50.0	<2.5	109	80-120			
Dichlorodifluoromethane	44.2	5.0	0.14	ug/L	50.0	<5.0	88.4	70-130			
Dichlorofluoromethane	52.9	1.0	0.059	ug/L	50.0	<1.0	106	80-120			
Ethyl ether	52.6	5.0	0.091	ug/L	50.0	<5.0	105	80-120			



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

LCS (B6K2825-BS1)

Prepared & Analyzed: 11/28/16

Ethylbenzene	52.7	1.0	0.033	ug/L	50.0	<1.0	105	80-120			
Hexachlorobutadiene	49.9	10	0.19	ug/L	50.0	<10	99.8	74.1-125			
Isopropylbenzene	53.1	1.0	0.037	ug/L	50.0	<1.0	106	76.9-125			
m,p-Xylene	110	2.0	0.087	ug/L	100	<2.0	110	80-120			
Methyl isobutyl ketone	58.8	5.0	0.17	ug/L	50.0	<5.0	118	80-120			
Methyl tert-butyl ether	54.6	1.0	0.056	ug/L	50.0	<1.0	109	80-120			
Methylene chloride	49.5	5.0	0.10	ug/L	50.0	<5.0	99.0	77.4-125			
Naphthalene	50.6	5.0	0.032	ug/L	50.0	<5.0	101	75-125			
n-Butylbenzene	51.6	2.5	0.028	ug/L	50.0	<2.5	103	75-125			
n-Propylbenzene	52.1	1.0	0.040	ug/L	50.0	<1.0	104	75.8-125			
o-Xylene	55.2	1.0	0.053	ug/L	50.0	<1.0	110	80-120			
p-Isopropyltoluene	52.2	2.5	0.052	ug/L	50.0	<2.5	104	75-125			
sec-Butylbenzene	53.1	1.0	0.055	ug/L	50.0	<1.0	106	75-125			
Styrene	55.6	1.0	0.048	ug/L	50.0	<1.0	111	80-120			
tert-Butylbenzene	52.7	1.0	0.028	ug/L	50.0	<1.0	105	75-125			
Tetrachloroethene	53.5	1.0	0.035	ug/L	50.0	<1.0	107	80-120			
Tetrahydrofuran	57.0	20	0.34	ug/L	50.0	<20	114	80-120			
Toluene	54.9	1.0	0.064	ug/L	50.0	<1.0	110	80-120			
trans-1,2-Dichloroethene	51.9	1.0	0.058	ug/L	50.0	<1.0	104	80-124			
trans-1,3-Dichloropropene	54.8	1.0	0.067	ug/L	50.0	<1.0	110	80-120			
Trichloroethene	53.1	1.0	0.096	ug/L	50.0	<1.0	106	80-120			
Trichlorofluoromethane	51.8	1.0	0.26	ug/L	50.0	<1.0	104	75-129			
Vinyl chloride	47.7	1.0	0.046	ug/L	50.0	<1.0	95.3	75-130			
Surrogate: 4-Bromofluorobenzene	48.9			ug/L	48.1		102	80-121			
Surrogate: Dibromofluoromethane	49.8			ug/L	48.1		103	79.9-121			
Surrogate: Toluene-d8	48.9			ug/L	48.1		102	80-120			

Matrix Spike (B6K2825-MS1)

Source: 1605049-01

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	52.9	1.0	0.024	ug/L	50.0	<1.0	106	80-120			
1,1,1-Trichloroethane	49.2	1.0	0.069	ug/L	50.0	<1.0	98.4	80-123			
1,1,2,2-Tetrachloroethane	53.2	1.0	0.051	ug/L	50.0	<1.0	106	76.8-125			
1,1,2-Trichloroethane	51.5	1.0	0.10	ug/L	50.0	<1.0	103	80-120			
1,1,2-Trichlorotrifluoroethane	49.9	1.0	0.081	ug/L	50.0	<1.0	99.8	80-120			
1,1-Dichloroethane	49.5	1.0	0.050	ug/L	50.0	<1.0	99.0	80-125			
1,1-Dichloroethene	47.7	1.0	0.065	ug/L	50.0	<1.0	95.5	80-125			
1,1-Dichloropropene	49.9	1.0	0.15	ug/L	50.0	<1.0	99.9	80-125			
1,2,3-Trichlorobenzene	43.4	5.0	0.45	ug/L	50.0	<5.0	86.9	75-125			
1,2,3-Trichloropropane	53.6	2.5	0.056	ug/L	50.0	<2.5	107	75.7-125			
1,2,4-Trichlorobenzene	44.6	5.0	0.091	ug/L	50.0	<5.0	89.2	75-125			
1,2,4-Trimethylbenzene	50.8	1.0	0.054	ug/L	50.0	<1.0	102	75-125			

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

Matrix Spike (B6K2825-MS1)

Source: 1605049-01

Prepared & Analyzed: 11/28/16

1,2-Dibromo-3-chloropropane	51.8	5.0	0.033	ug/L	50.0	<5.0	104	75-125			
1,2-Dibromoethane (EDB)	53.3	2.5	0.042	ug/L	50.0	<2.5	107	80-120			
1,2-Dichlorobenzene	51.9	1.0	0.052	ug/L	50.0	<1.0	104	75-125			
1,2-Dichloroethane	49.0	1.0	0.064	ug/L	50.0	<1.0	98.0	80-120			
1,2-Dichloropropane	50.7	1.0	0.034	ug/L	50.0	<1.0	101	80-120			
1,3,5-Trimethylbenzene	50.8	1.0	0.046	ug/L	50.0	<1.0	102	75-125			
1,3-Dichlorobenzene	52.6	1.0	0.068	ug/L	50.0	<1.0	105	75-125			
1,3-Dichloropropane	51.9	1.0	0.15	ug/L	50.0	<1.0	104	80-120			
1,4-Dichlorobenzene	51.9	1.0	0.047	ug/L	50.0	<1.0	104	75-125			
2,2-Dichloropropane	50.3	5.0	0.28	ug/L	50.0	<5.0	101	60-140			
2-Butanone	51.7	20	0.33	ug/L	50.0	<20	103	80-120			
2-Chlorotoluene	50.7	1.0	0.052	ug/L	50.0	<1.0	101	75-125			
4-Chlorotoluene	50.6	1.0	0.041	ug/L	50.0	<1.0	101	75-125			
Acetone	43.7	20	0.32	ug/L	50.0	<20	87.4	80-120			
Allyl chloride	48.8	5.0	0.078	ug/L	50.0	<5.0	97.5	80-120			
Benzene	50.9	1.0	0.034	ug/L	50.0	<1.0	102	80-120			
Bromobenzene	52.5	1.0	0.042	ug/L	50.0	<1.0	105	76.7-120			
Bromochloromethane	50.1	1.0	0.10	ug/L	50.0	<1.0	100	78.4-125			
Bromodichloromethane	51.9	1.0	0.042	ug/L	50.0	<1.0	104	80-120			
Bromoform	54.2	5.0	0.080	ug/L	50.0	<5.0	108	80-120			
Bromomethane	48.9	5.0	0.17	ug/L	50.0	<5.0	97.8	70-130			
Carbon tetrachloride	52.5	1.0	0.029	ug/L	50.0	<1.0	105	80-124			
Chlorobenzene	52.5	1.0	0.037	ug/L	50.0	<1.0	105	80-120			
Chloroethane	50.4	2.5	0.062	ug/L	50.0	<2.5	101	74.8-130			
Chloroform	50.2	1.0	0.056	ug/L	50.0	<1.0	100	79.8-125			
Chloromethane	45.3	2.5	0.062	ug/L	50.0	<2.5	90.6	72-130			
cis-1,2-Dichloroethene	51.9	1.0	0.097	ug/L	50.0	<1.0	104	80-120			
cis-1,3-Dichloropropene	51.0	1.0	0.041	ug/L	50.0	<1.0	102	80-120			
Dibromochloromethane	53.6	2.5	0.070	ug/L	50.0	<2.5	107	80-120			
Dibromomethane	51.4	2.5	0.088	ug/L	50.0	<2.5	103	80-120			
Dichlorodifluoromethane	43.6	5.0	0.14	ug/L	50.0	<5.0	87.2	70-130			
Dichlorofluoromethane	50.3	1.0	0.059	ug/L	50.0	<1.0	101	80-120			
Ethyl ether	51.4	5.0	0.091	ug/L	50.0	<5.0	103	80-120			
Ethylbenzene	51.5	1.0	0.033	ug/L	50.0	<1.0	103	80-120			
Hexachlorobutadiene	45.5	10	0.19	ug/L	50.0	<10	91.1	75-125			
Isopropylbenzene	52.1	1.0	0.037	ug/L	50.0	<1.0	104	75-125			
m,p-Xylene	108	2.0	0.087	ug/L	100	<2.0	108	80-120			
Methyl isobutyl ketone	54.3	5.0	0.17	ug/L	50.0	<5.0	109	80-120			
Methyl tert-butyl ether	52.2	1.0	0.056	ug/L	50.0	<1.0	104	80-120			



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

Matrix Spike (B6K2825-MS1)

Source: 1605049-01

Prepared & Analyzed: 11/28/16

Methylene chloride	48.4	5.0	0.10	ug/L	50.0	<5.0	96.9	80-121			
Naphthalene	44.7	5.0	0.032	ug/L	50.0	<5.0	89.5	75-125			
n-Butylbenzene	50.1	2.5	0.028	ug/L	50.0	<2.5	100	75-130			
n-Propylbenzene	51.5	1.0	0.040	ug/L	50.0	<1.0	103	75-125			
o-Xylene	53.9	1.0	0.053	ug/L	50.0	<1.0	108	80-120			
p-Isopropyltoluene	50.4	2.5	0.052	ug/L	50.0	<2.5	101	74.9-126			
sec-Butylbenzene	52.1	1.0	0.055	ug/L	50.0	<1.0	104	75-125			
Styrene	52.5	1.0	0.048	ug/L	50.0	<1.0	105	80-120			
tert-Butylbenzene	51.3	1.0	0.028	ug/L	50.0	<1.0	103	75-125			
Tetrachloroethene	50.8	1.0	0.035	ug/L	50.0	<1.0	102	80-120			
Tetrahydrofuran	53.3	20	0.34	ug/L	50.0	<20	107	80-120			
Toluene	53.2	1.0	0.064	ug/L	50.0	<1.0	106	80-120			
trans-1,2-Dichloroethene	50.2	1.0	0.058	ug/L	50.0	<1.0	100	80-125			
trans-1,3-Dichloropropene	51.6	1.0	0.067	ug/L	50.0	<1.0	103	80-120			
Trichloroethene	51.0	1.0	0.096	ug/L	50.0	<1.0	102	80-120			
Trichlorofluoromethane	49.9	1.0	0.26	ug/L	50.0	<1.0	99.8	75-130			
Vinyl chloride	46.4	1.0	0.046	ug/L	50.0	<1.0	92.7	75-130			
Surrogate: 4-Bromofluorobenzene	46.5			ug/L	48.1		96.7	80-121			
Surrogate: Dibromofluoromethane	49.2			ug/L	48.1		102	79.9-121			
Surrogate: Toluene-d8	48.0			ug/L	48.1		99.7	80-120			

Matrix Spike Dup (B6K2825-MSD1)

Source: 1605049-01

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	52.8	1.0	0.024	ug/L	50.0	<1.0	106	80-120	0.288	20	
1,1,1-Trichloroethane	49.0	1.0	0.069	ug/L	50.0	<1.0	98.1	80-123	0.306	20	
1,1,2,2-Tetrachloroethane	53.8	1.0	0.051	ug/L	50.0	<1.0	108	76.8-125	1.10	20	
1,1,2-Trichloroethane	51.9	1.0	0.10	ug/L	50.0	<1.0	104	80-120	0.725	20	
1,1,2-Trichlorotrifluoroethane	48.5	1.0	0.081	ug/L	50.0	<1.0	97.0	80-120	2.83	20	
1,1-Dichloroethane	48.2	1.0	0.050	ug/L	50.0	<1.0	96.4	80-125	2.57	20	
1,1-Dichloroethene	47.2	1.0	0.065	ug/L	50.0	<1.0	94.3	80-125	1.20	20	
1,1-Dichloropropene	49.6	1.0	0.15	ug/L	50.0	<1.0	99.1	80-125	0.748	20	
1,2,3-Trichlorobenzene	46.3	5.0	0.45	ug/L	50.0	<5.0	92.7	75-125	6.44	20	
1,2,3-Trichloropropane	52.8	2.5	0.056	ug/L	50.0	<2.5	106	75.7-125	1.36	20	
1,2,4-Trichlorobenzene	46.6	5.0	0.091	ug/L	50.0	<5.0	93.3	75-125	4.48	20	
1,2,4-Trimethylbenzene	50.8	1.0	0.054	ug/L	50.0	<1.0	102	75-125	0.0160	20	
1,2-Dibromo-3-chloropropane	51.5	5.0	0.033	ug/L	50.0	<5.0	103	75-125	0.596	20	
1,2-Dibromoethane (EDB)	53.0	2.5	0.042	ug/L	50.0	<2.5	106	80-120	0.599	20	
1,2-Dichlorobenzene	52.3	1.0	0.052	ug/L	50.0	<1.0	105	75-125	0.789	20	
1,2-Dichloroethane	48.9	1.0	0.064	ug/L	50.0	<1.0	97.8	80-120	0.164	20	
1,2-Dichloropropane	50.9	1.0	0.034	ug/L	50.0	<1.0	102	80-120	0.408	20	
1,3,5-Trimethylbenzene	51.1	1.0	0.046	ug/L	50.0	<1.0	102	75-125	0.533	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



88 Empire Drive
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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605049
Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2825 - EPA 5030 Water (Purge and Trap)

Matrix Spike Dup (B6K2825-MSD1)

Source: 1605049-01

Prepared & Analyzed: 11/28/16

1,3-Dichlorobenzene	53.0	1.0	0.068	ug/L	50.0	<1.0	106	75-125	0.778	20	
1,3-Dichloropropane	53.2	1.0	0.15	ug/L	50.0	<1.0	106	80-120	2.50	20	
1,4-Dichlorobenzene	52.2	1.0	0.047	ug/L	50.0	<1.0	104	75-125	0.694	20	
2,2-Dichloropropane	47.1	5.0	0.28	ug/L	50.0	<5.0	94.2	60-140	6.53	20	
2-Butanone	49.7	20	0.33	ug/L	50.0	<20	99.5	80-120	3.88	20	
2-Chlorotoluene	51.2	1.0	0.052	ug/L	50.0	<1.0	102	75-125	0.984	20	
4-Chlorotoluene	51.2	1.0	0.041	ug/L	50.0	<1.0	102	75-125	1.09	20	
Acetone	43.2	20	0.32	ug/L	50.0	<20	86.5	80-120	1.02	20	
Allyl chloride	47.6	5.0	0.078	ug/L	50.0	<5.0	95.2	80-120	2.41	20	
Benzene	50.8	1.0	0.034	ug/L	50.0	<1.0	102	80-120	0.285	20	
Bromobenzene	52.4	1.0	0.042	ug/L	50.0	<1.0	105	76.7-120	0.204	20	
Bromochloromethane	49.5	1.0	0.10	ug/L	50.0	<1.0	99.1	78.4-125	1.24	20	
Bromodichloromethane	51.3	1.0	0.042	ug/L	50.0	<1.0	103	80-120	1.13	20	
Bromoform	54.5	5.0	0.080	ug/L	50.0	<5.0	109	80-120	0.548	20	
Bromomethane	46.9	5.0	0.17	ug/L	50.0	<5.0	93.8	70-130	4.11	20	
Carbon tetrachloride	51.8	1.0	0.029	ug/L	50.0	<1.0	104	80-124	1.20	20	
Chlorobenzene	53.0	1.0	0.037	ug/L	50.0	<1.0	106	80-120	0.828	20	
Chloroethane	48.3	2.5	0.062	ug/L	50.0	<2.5	96.6	74.8-130	4.22	20	
Chloroform	49.0	1.0	0.056	ug/L	50.0	<1.0	97.9	79.8-125	2.47	20	
Chloromethane	43.0	2.5	0.062	ug/L	50.0	<2.5	86.0	72-130	5.28	20	
cis-1,2-Dichloroethene	51.0	1.0	0.097	ug/L	50.0	<1.0	102	80-120	1.74	20	
cis-1,3-Dichloropropene	50.6	1.0	0.041	ug/L	50.0	<1.0	101	80-120	0.891	20	
Dibromochloromethane	52.8	2.5	0.070	ug/L	50.0	<2.5	106	80-120	1.48	20	
Dibromomethane	51.1	2.5	0.088	ug/L	50.0	<2.5	102	80-120	0.570	20	
Dichlorodifluoromethane	41.2	5.0	0.14	ug/L	50.0	<5.0	82.5	70-130	5.52	20	
Dichlorofluoromethane	48.2	1.0	0.059	ug/L	50.0	<1.0	96.3	80-120	4.37	20	
Ethyl ether	50.0	5.0	0.091	ug/L	50.0	<5.0	99.9	80-120	2.92	20	
Ethylbenzene	51.7	1.0	0.033	ug/L	50.0	<1.0	103	80-120	0.335	20	
Hexachlorobutadiene	48.9	10	0.19	ug/L	50.0	<10	97.7	75-125	7.06	20	
Isopropylbenzene	53.2	1.0	0.037	ug/L	50.0	<1.0	106	75-125	2.05	20	
m,p-Xylene	108	2.0	0.087	ug/L	100	<2.0	108	80-120	0.210	20	
Methyl isobutyl ketone	55.7	5.0	0.17	ug/L	50.0	<5.0	111	80-120	2.45	20	
Methyl tert-butyl ether	50.8	1.0	0.056	ug/L	50.0	<1.0	102	80-120	2.71	20	
Methylene chloride	48.0	5.0	0.10	ug/L	50.0	<5.0	96.0	80-121	0.871	20	
Naphthalene	47.9	5.0	0.032	ug/L	50.0	<5.0	95.7	75-125	6.72	20	
n-Butylbenzene	51.3	2.5	0.028	ug/L	50.0	<2.5	103	75-130	2.22	20	
n-Propylbenzene	51.8	1.0	0.040	ug/L	50.0	<1.0	104	75-125	0.745	20	
o-Xylene	54.8	1.0	0.053	ug/L	50.0	<1.0	110	80-120	1.56	20	
p-Isopropyltoluene	52.5	2.5	0.052	ug/L	50.0	<2.5	105	74.9-126	4.02	20	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2825 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B6K2825-MSD1)		Source: 1605049-01				Prepared & Analyzed: 11/28/16					
sec-Butylbenzene	52.4	1.0	0.055	ug/L	50.0	<1.0	105	75-125	0.631	20	
Styrene	53.0	1.0	0.048	ug/L	50.0	<1.0	106	80-120	0.986	20	
tert-Butylbenzene	52.0	1.0	0.028	ug/L	50.0	<1.0	104	75-125	1.38	20	
Tetrachloroethene	50.2	1.0	0.035	ug/L	50.0	<1.0	100	80-120	1.08	20	
Tetrahydrofuran	50.4	20	0.34	ug/L	50.0	<20	101	80-120	5.68	20	
Toluene	51.9	1.0	0.064	ug/L	50.0	<1.0	104	80-120	2.41	20	
trans-1,2-Dichloroethene	49.9	1.0	0.058	ug/L	50.0	<1.0	99.8	80-125	0.714	20	
trans-1,3-Dichloropropene	50.6	1.0	0.067	ug/L	50.0	<1.0	101	80-120	2.03	20	
Trichloroethene	50.4	1.0	0.096	ug/L	50.0	<1.0	101	80-120	1.08	20	
Trichlorofluoromethane	48.2	1.0	0.26	ug/L	50.0	<1.0	96.4	75-130	3.44	20	
Vinyl chloride	44.6	1.0	0.046	ug/L	50.0	<1.0	89.1	75-130	3.93	20	
Surrogate: 4-Bromofluorobenzene	47.2			ug/L	48.1		98.2	80-121			
Surrogate: Dibromofluoromethane	49.1			ug/L	48.1		102	79.9-121			
Surrogate: Toluene-d8	48.2			ug/L	48.1		100	80-120			



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 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605049
 Date Reported: 12/08/16

Notes and Definitions

QM-10	LCS/LCSD were analyzed in place of MS/MSD.
Q9	Insufficient sample received to meet method QC requirements.
PH2	Insufficient preservative to reduce the sample pH to less than 2.
L1	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit; Equivalent to the method LOD (Limit of Detection)
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)



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AMERICAN ENGINEERING TESTING, INC.
 St. Paul Office
 550 Cleveland Ave. N.
 St. Paul, MN 55114
 651-658-9001
 651-659-1379 (fax)

OTHER
 ADDRESS: _____
 PHONE: _____

PROJECT NUMBER: 03-06069
 PROJECT NAME/LOCATION: West Side Flats / St. Paul, MN
 AET PROJECT MANAGER: Trey Howard
 SEND REPORT TO: Trey Howard
 SAMPLED BY (PRINT): Andy Nelson
 SAMPLER SIGNATURE: *[Signature]*

REQUESTED TURNAROUND TIME: NORMAL RUSH

DATE NEEDED BY: _____

No. 21420
 PAGE 1 OF 1

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	PRESERVATIVES					FIELD FILTERED Y/N	ANALYSIS											REMARKS			
					UNPRESERVED	MOH	HCL	H2O2	HNO3		DRO	YOCs	8 KICKA Metals	PCBs	SYOCs	PAHs	TCLP	PH	13 Priority Pollutant Metals						
1	AGP-1 (10-15)	10/15	17:35	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	01 AM
2	AGP-2 (12-13)	10/15	18:05	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	02
3	AGP-3 (12-17)	10/15	09:12	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	03
4	AGP-4 (11-21)	10/15	10:25	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	04
5	AGP-5 (5-10)	10/15	13:10	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	05
6	AGP-6 (14-15)	10/15	14:30	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	06
7	AGP-Dup-GW	-	-	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	07
8	Equip. Blank	10/15	14:10	water						4		X	X	X	X	X	X	X	X	X	X	X	X	X	08
9	Trip Blanks									4		X	X	X	X	X	X	X	X	X	X	X	X	X	09 AM

RELINQUISHED BY/AFFILIATION: *[Signature]*
 DATE: 11/10/15
 TIME: 14:40
 ACCEPTED BY/AFFILIATION: *[Signature]*
 DATE: 11/10/15
 TIME: 14:40

NOTE: Hold bottles for unboxed parameters until further notice.
 Lab Filter Metals Samples

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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December 20, 2016

Mr. Trey Howard
American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Work Order Number: 1605064
RE: 03-06069

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16. If you have any questions concerning this report, please feel free to contact me.

Results are not blank corrected unless noted within the report. Additionally, all QC results meet requirements unless noted.

All samples will be retained by Legend Technical Services, Inc., unless consumed in the analysis, at ambient conditions for 30 days from the date of this report and then discarded unless other arrangements are made. All samples were received in acceptable condition unless otherwise noted.

All test results and QC meet requirements of the 2003 NELAC standard.

MDH (NELAP) Accreditation #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

A handwritten signature in black ink, appearing to read "Bach Pham", is written over a horizontal line.

Bach Pham
Client Manager II
bpham@legend-group.com



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ATP-1 (0'-2')	1605064-01	Soil	11/16/16 08:55	11/17/16 17:05
ATP-2 (2'-4')	1605064-02	Soil	11/16/16 10:15	11/17/16 17:05
ATP-2 (12'-14')	1605064-03	Soil	11/16/16 11:22	11/17/16 17:05
ATP-2 (14'-16')	1605064-04	Soil	11/16/16 11:30	11/17/16 17:05
ATP-3 (6'-8')	1605064-05	Soil	11/16/16 11:55	11/17/16 17:05
ATP-3 (10'-12')	1605064-06	Soil	11/16/16 12:15	11/17/16 17:05
ATP-4 (4'-6')	1605064-07	Soil	11/16/16 14:10	11/17/16 17:05
ATP-4 (12'-14')	1605064-08	Soil	11/16/16 14:20	11/17/16 17:05
ATP-5 (10'-12')	1605064-09	Soil	11/16/16 15:30	11/17/16 17:05
ATP-5 (12'-14')	1605064-10	Soil	11/16/16 15:35	11/17/16 17:05
ATP-6 (0'-2')	1605064-11	Soil	11/16/16 15:50	11/17/16 17:05
ATP-6 (8'-10')	1605064-12	Soil	11/16/16 16:05	11/17/16 17:05
ATP-7 (2'-4')	1605064-13	Soil	11/16/16 15:30	11/17/16 17:05
ATP-7 (6'-8')	1605064-14	Soil	11/16/16 15:35	11/17/16 17:05
ATP-8 (0'-2')	1605064-15	Soil	11/16/16 16:30	11/17/16 17:05
ATP-8 (8'-10')	1605064-16	Soil	11/16/16 16:40	11/17/16 17:05
ATP-Dup-Soil	1605064-17	Soil	11/16/16 00:00	11/17/16 17:05

Shipping Container Information

Default Cooler Temperature (°C): 3.4

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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DRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
Diesel Range Organics	120	70	15	mg/kg dry	10	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	101			70-130 %		"	"	"	"	
ATP-2 (2'-4') (1605064-02) Soil Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
Diesel Range Organics	24	6.8	1.4	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	106			70-130 %		"	"	"	"	
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
Diesel Range Organics	120	6.8	1.5	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	103			70-130 %		"	"	"	"	
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
Diesel Range Organics	<6.2	6.2	1.3	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacotane (C-30)	93.5			70-130 %		"	"	"	"	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Diesel Range Organics	100	6.1	1.3	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	103			70-130 %		"	"	"	"	
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
Diesel Range Organics	<7.5	7.5	1.6	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacotane (C-30)	100			70-130 %		"	"	"	"	
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Diesel Range Organics	120	6.1	1.3	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	102			70-130 %		"	"	"	"	
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
Diesel Range Organics	<6.7	6.7	1.4	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacotane (C-30)	102			70-130 %		"	"	"	"	
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Diesel Range Organics	370	250	53	mg/kg dry	20	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	105			70-130 %		"	"	"	"	
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Diesel Range Organics	<7.7	7.7	1.6	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacotane (C-30)	89.6			70-130 %		"	"	"	"	
ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05										
Diesel Range Organics	68	7.1	1.5	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacotane (C-30)	94.0			70-130 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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DRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
Diesel Range Organics	<7.0	7.0	1.5	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	89.8			70-130 %		"	"	"	"	
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Diesel Range Organics	32	7.0	1.5	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	106			70-130 %		"	"	"	"	
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Diesel Range Organics	<6.4	6.4	1.4	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	94.1			70-130 %		"	"	"	"	
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
Diesel Range Organics	70	7.0	1.5	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	115			70-130 %		"	"	"	"	
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
Diesel Range Organics	<7.4	7.4	1.6	mg/kg dry	1	B6K2210	11/22/16	11/23/16	WI(95) DRO	
Surrogate: Triacontane (C-30)	97.0			70-130 %		"	"	"	"	
ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Diesel Range Organics	240	160	33	mg/kg dry	20	B6K2210	11/22/16	11/23/16	WI(95) DRO	L1
Surrogate: Triacontane (C-30)	115			70-130 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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WI(95) GRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
Gasoline range organics	<5.2	5.2	1.0	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	97.7			80-150 %		"	"	"	"	
ATP-2 (2'-4') (1605064-02) Soil Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
Gasoline range organics	<6.8	6.8	1.4	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	W-03
Surrogate: 4-Fluorochlorobenzene	103			80-150 %		"	"	"	"	
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
Gasoline range organics	<5.5	5.5	1.1	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	97.9			80-150 %		"	"	"	"	
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
Gasoline range organics	<6.0	6.0	1.2	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	105			80-150 %		"	"	"	"	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Gasoline range organics	<5.9	5.9	1.2	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	97.9			80-150 %		"	"	"	"	
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
Gasoline range organics	<5.8	5.8	1.2	mg/kg dry	1	B6K2813	11/28/16	11/28/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	96.4			80-150 %		"	"	"	"	
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Gasoline range organics	8.2	6.2	1.2	mg/kg dry	1	B6K2813	11/28/16	11/29/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	107			80-150 %		"	"	"	"	
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
Gasoline range organics	<5.6	5.6	1.1	mg/kg dry	1	B6K2813	11/28/16	11/29/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	99.8			80-150 %		"	"	"	"	
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Gasoline range organics	<6.3	6.3	1.3	mg/kg dry	1	B6K2813	11/28/16	11/29/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	101			80-150 %		"	"	"	"	
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Gasoline range organics	<7.1	7.1	1.4	mg/kg dry	1	B6K2813	11/28/16	11/29/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	100			80-150 %		"	"	"	"	
ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05										
Gasoline range organics	10	7.0	1.4	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	W-03
Surrogate: 4-Fluorochlorobenzene	130			80-150 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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WI(95) GRO/8015D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
Gasoline range organics	<6.2	6.2	1.2	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	107		80-150 %			"	"	"	"	
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Gasoline range organics	<6.0	6.0	1.2	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	111		80-150 %			"	"	"	"	
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Gasoline range organics	<5.6	5.6	1.1	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	113		80-150 %			"	"	"	"	
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
Gasoline range organics	<5.6	5.6	1.1	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	109		80-150 %			"	"	"	"	
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
Gasoline range organics	<6.3	6.3	1.3	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	84.2		80-150 %			"	"	"	"	
ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05 W-03										
Gasoline range organics	<8.2	8.2	1.6	mg/kg dry	1	B6L0106	12/01/16	12/01/16	WI(95) GRO	
Surrogate: 4-Fluorochlorobenzene	109		80-150 %			"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
Arsenic	2.8	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	46	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.25	0.056	0.011	mg/kg dry	1	"	"	"	"	
Chromium	12	0.56	0.022	mg/kg dry	1	"	"	"	"	
Lead	34	0.83	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.56	0.56	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.56	0.56	0.17	mg/kg dry	1	"	"	"	"	
ATP-2 (2'-4') (1605064-02) Soil Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
Arsenic	4.1	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	41	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.099	0.054	0.011	mg/kg dry	1	"	"	"	"	
Chromium	11	0.54	0.022	mg/kg dry	1	"	"	"	"	
Lead	28	0.82	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.54	0.54	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.72	mg/kg dry	1	"	"	"	"	
Silver	<0.54	0.54	0.16	mg/kg dry	1	"	"	"	"	
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
Arsenic	4.0	1.2	0.35	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	71	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.32	0.060	0.012	mg/kg dry	1	"	"	"	"	
Chromium	11	0.60	0.024	mg/kg dry	1	"	"	"	"	
Lead	100	0.90	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.60	0.60	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.60	0.60	0.18	mg/kg dry	1	"	"	"	"	
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
Arsenic	1.8	1.2	0.35	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	26	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.066	0.060	0.012	mg/kg dry	1	"	"	"	"	
Chromium	5.2	0.60	0.024	mg/kg dry	1	"	"	"	"	
Lead	1.7	0.90	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.60	0.60	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.60	0.60	0.18	mg/kg dry	1	"	"	"	"	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Arsenic	2.2	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05

Barium	100	1.1	0.11	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Cadmium	0.35	0.055	0.011	mg/kg dry	1	"	"	"	"	
Chromium	6.4	0.55	0.022	mg/kg dry	1	"	"	"	"	
Lead	160	0.82	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.55	0.55	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.55	0.55	0.16	mg/kg dry	1	"	"	"	"	

ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05

Arsenic	1.6	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	22	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	<0.055	0.055	0.011	mg/kg dry	1	"	"	"	"	
Chromium	4.1	0.55	0.022	mg/kg dry	1	"	"	"	"	
Lead	1.7	0.82	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.55	0.55	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.55	0.55	0.16	mg/kg dry	1	"	"	"	"	

ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05

Arsenic	12	1.1	0.33	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	59	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.58	0.057	0.011	mg/kg dry	1	"	"	"	"	
Chromium	10	0.57	0.023	mg/kg dry	1	"	"	"	"	
Lead	360	0.85	0.20	mg/kg dry	1	"	"	"	"	
Mercury	1.7	0.57	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.75	mg/kg dry	1	"	"	"	"	
Silver	1.3	0.57	0.17	mg/kg dry	1	"	"	"	"	

ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05

Arsenic	3.1	1.2	0.35	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	81	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.20	0.060	0.012	mg/kg dry	1	"	"	"	"	
Chromium	12	0.60	0.024	mg/kg dry	1	"	"	"	"	
Lead	5.0	0.90	0.22	mg/kg dry	1	"	"	"	"	
Mercury	<0.60	0.60	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.60	0.60	0.18	mg/kg dry	1	"	"	"	"	

ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

Arsenic	14	1.3	0.37	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	97	1.3	0.13	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

Cadmium	2.5	0.063	0.013	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Chromium	17	0.63	0.025	mg/kg dry	1	"	"	"	"	
Lead	150	0.95	0.23	mg/kg dry	1	"	"	"	"	
Mercury	<0.63	0.63	0.15	mg/kg dry	1	"	"	"	"	
Selenium	<3.2	3.2	0.84	mg/kg dry	1	"	"	"	"	
Silver	<0.63	0.63	0.19	mg/kg dry	1	"	"	"	"	

ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05

Arsenic	4.1	1.5	0.44	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	78	1.5	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	0.22	0.076	0.015	mg/kg dry	1	"	"	"	"	
Chromium	13	0.76	0.030	mg/kg dry	1	"	"	"	"	
Lead	6.3	1.1	0.27	mg/kg dry	1	"	"	"	"	
Mercury	<0.76	0.76	0.18	mg/kg dry	1	"	"	"	"	
Selenium	<3.8	3.8	1.0	mg/kg dry	1	"	"	"	"	
Silver	<0.76	0.76	0.23	mg/kg dry	1	"	"	"	"	

ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05

Arsenic	5.1	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	52	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.25	0.054	0.011	mg/kg dry	1	"	"	"	"	
Chromium	11	0.54	0.022	mg/kg dry	1	"	"	"	"	
Lead	98	0.82	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.54	0.54	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.7	2.7	0.72	mg/kg dry	1	"	"	"	"	
Silver	<0.54	0.54	0.16	mg/kg dry	1	"	"	"	"	

ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05

Arsenic	1.1	1.1	0.31	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	20	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	<0.053	0.053	0.011	mg/kg dry	1	"	"	"	"	
Chromium	5.6	0.53	0.021	mg/kg dry	1	"	"	"	"	
Lead	1.5	0.79	0.19	mg/kg dry	1	"	"	"	"	
Mercury	<0.53	0.53	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.6	2.6	0.69	mg/kg dry	1	"	"	"	"	
Silver	<0.53	0.53	0.16	mg/kg dry	1	"	"	"	"	

ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

Arsenic	8.5	1.2	0.35	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	350	1.2	0.12	mg/kg dry	1	"	"	"	"	
Cadmium	0.36	0.060	0.012	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

Chromium	15	0.60	0.024	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Lead	250	0.90	0.22	mg/kg dry	1	"	"	"	"	
Mercury	1.9	0.60	0.14	mg/kg dry	1	"	"	"	"	
Selenium	<3.0	3.0	0.80	mg/kg dry	1	"	"	"	"	
Silver	<0.60	0.60	0.18	mg/kg dry	1	"	"	"	"	

ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05

Arsenic	1.7	1.1	0.33	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	29	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.071	0.056	0.011	mg/kg dry	1	"	"	"	"	
Chromium	5.4	0.56	0.022	mg/kg dry	1	"	"	"	"	
Lead	2.0	0.84	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.56	0.56	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.74	mg/kg dry	1	"	"	"	"	
Silver	<0.56	0.56	0.17	mg/kg dry	1	"	"	"	"	

ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05

Arsenic	5.0	1.1	0.32	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	45	1.1	0.11	mg/kg dry	1	"	"	"	"	
Cadmium	0.40	0.056	0.011	mg/kg dry	1	"	"	"	"	
Chromium	13	0.56	0.022	mg/kg dry	1	"	"	"	"	
Lead	130	0.83	0.20	mg/kg dry	1	"	"	"	"	
Mercury	<0.56	0.56	0.13	mg/kg dry	1	"	"	"	"	
Selenium	<2.8	2.8	0.73	mg/kg dry	1	"	"	"	"	
Silver	<0.56	0.56	0.17	mg/kg dry	1	"	"	"	"	

ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05

Arsenic	<1.0	1.0	0.30	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	14	1.0	0.10	mg/kg dry	1	"	"	"	"	
Cadmium	<0.051	0.051	0.010	mg/kg dry	1	"	"	"	"	
Chromium	3.5	0.51	0.020	mg/kg dry	1	"	"	"	"	
Lead	0.79	0.77	0.18	mg/kg dry	1	"	"	"	"	
Mercury	<0.51	0.51	0.12	mg/kg dry	1	"	"	"	"	
Selenium	<2.6	2.6	0.67	mg/kg dry	1	"	"	"	"	
Silver	<0.51	0.51	0.15	mg/kg dry	1	"	"	"	"	

ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05

Arsenic	12	1.3	0.37	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Barium	110	1.3	0.13	mg/kg dry	1	"	"	"	"	
Cadmium	2.7	0.063	0.013	mg/kg dry	1	"	"	"	"	
Chromium	19	0.63	0.025	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Lead	390	0.95	0.23	mg/kg dry	1	B6K2105	11/21/16	11/22/16	EPA 6010C	
Mercury	<0.63	0.63	0.15	mg/kg dry	1	"	"	"	"	
Selenium	<3.2	3.2	0.84	mg/kg dry	1	"	"	"	"	
Silver	<0.63	0.63	0.19	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PAH 8270D (EXTENDED LIST)
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
1,6-Dinitropyrene	<0.60	0.60	0.049	mg/kg dry	1	B6K2902	11/29/16	11/30/16	EPA 8270D	T5
1,8-Dinitropyrene	<0.31	0.31	0.026	mg/kg dry	1	"	"	"	"	T5
1-Nitropyrene	<0.12	0.12	0.012	mg/kg dry	1	"	"	"	"	T5
2-Methylnaphthalene	<0.12	0.12	0.034	mg/kg dry	1	"	"	"	"	
2-Nitrofluorene	<0.12	0.12	0.018	mg/kg dry	1	"	"	"	"	T5
3-Methylcholanthrene	<0.12	0.12	0.011	mg/kg dry	1	"	"	"	"	T5
4-Nitropyrene	<0.14	0.14	0.018	mg/kg dry	1	"	"	"	"	T5
5-Methylchrysene	<0.12	0.12	0.013	mg/kg dry	1	"	"	"	"	T5
5-Nitroacenaphthene	<0.12	0.12	0.015	mg/kg dry	1	"	"	"	"	T5
6-Nitrochrysene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	T5
7,12-Dimethylbenz (a) anthracene	<0.12	0.12	0.016	mg/kg dry	1	"	"	"	"	M1, T5
7H-Dibenzo(c,g)carbazole	<0.060	0.060	0.016	mg/kg dry	1	"	"	"	"	T5
Acenaphthene	<0.12	0.12	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.12	0.12	0.025	mg/kg dry	1	"	"	"	"	
Anthracene	0.24	0.12	0.018	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.68	0.12	0.018	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.64	0.12	0.0096	mg/kg dry	1	"	"	"	"	
Benzo(b&j)fluoranthene	0.75	0.24	0.022	mg/kg dry	1	"	"	"	"	T5
Benzo(e)pyrene	0.44	0.12	0.014	mg/kg dry	1	"	"	"	"	T5
Benzo(g,h,i)perylene	0.38	0.12	0.014	mg/kg dry	1	"	"	"	"	
Benzo(k)fluoranthene	0.29	0.12	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.12	0.12	0.015	mg/kg dry	1	"	"	"	"	
Chrysene	0.71	0.12	0.014	mg/kg dry	1	"	"	"	"	
Dibenz [a,h] acridine	<0.12	0.12	0.0051	mg/kg dry	1	"	"	"	"	T5
Dibenz(a,h)anthracene	<0.12	0.12	0.012	mg/kg dry	1	"	"	"	"	
Dibenz(a,j)acridine	<0.12	0.12	0.010	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,e)pyrene	<0.12	0.12	0.011	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,h)pyrene	<0.12	0.12	0.016	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,i)pyrene	<0.12	0.12	0.013	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,l)pyrene	0.15	0.12	0.019	mg/kg dry	1	"	"	"	"	T5
Fluoranthene	1.3	0.12	0.014	mg/kg dry	1	"	"	"	"	
Fluorene	<0.12	0.12	0.025	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.39	0.12	0.014	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.12	0.12	0.035	mg/kg dry	1	"	"	"	"	
Perylene	0.14	0.12	0.014	mg/kg dry	1	"	"	"	"	T5
Phenanthrene	0.90	0.12	0.016	mg/kg dry	1	"	"	"	"	
Pyrene	1.5	0.12	0.018	mg/kg dry	1	"	"	"	"	M2
Quinoline	<0.12	0.12	0.033	mg/kg dry	1	"	"	"	"	T5
Surrogate: 2-Fluorobiphenyl	67.5			30.7-107 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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PAH 8270D (EXTENDED LIST)
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Surrogate: Nitrobenzene-d5	67.7			30-113 %		B6K2902	11/29/16	11/30/16	EPA 8270D	
Surrogate: Terphenyl-d14	80.5			30-139 %		"	"	"	"	
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
1,6-Dinitropyrene	<0.62	0.62	0.051	mg/kg dry	1	B6K2902	11/29/16	11/30/16	EPA 8270D	T5
1,8-Dinitropyrene	<0.32	0.32	0.027	mg/kg dry	1	"	"	"	"	T5
1-Nitropyrene	<0.12	0.12	0.012	mg/kg dry	1	"	"	"	"	T5
2-Methylnaphthalene	0.18	0.12	0.035	mg/kg dry	1	"	"	"	"	
2-Nitrofluorene	<0.12	0.12	0.018	mg/kg dry	1	"	"	"	"	T5
3-Methylcholanthrene	<0.12	0.12	0.011	mg/kg dry	1	"	"	"	"	T5
4-Nitropyrene	<0.15	0.15	0.018	mg/kg dry	1	"	"	"	"	T5
5-Methylchrysene	<0.12	0.12	0.014	mg/kg dry	1	"	"	"	"	T5
5-Nitroacenaphthene	<0.12	0.12	0.016	mg/kg dry	1	"	"	"	"	T5
6-Nitrochrysene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	T5
7,12-Dimethylbenz (a) anthracene	<0.12	0.12	0.017	mg/kg dry	1	"	"	"	"	T5
7H-Dibenzo(c,g)carbazole	<0.062	0.062	0.017	mg/kg dry	1	"	"	"	"	T5
Acenaphthene	<0.12	0.12	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.12	0.12	0.026	mg/kg dry	1	"	"	"	"	
Anthracene	0.13	0.12	0.018	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.42	0.12	0.018	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.44	0.12	0.0099	mg/kg dry	1	"	"	"	"	
Benzo(b&j)fluoranthene	0.66	0.25	0.023	mg/kg dry	1	"	"	"	"	T5
Benzo(e)pyrene	0.40	0.12	0.015	mg/kg dry	1	"	"	"	"	T5
Benzo(g,h,i)perylene	0.34	0.12	0.015	mg/kg dry	1	"	"	"	"	
Benzo(k)fluoranthene	0.22	0.12	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.12	0.12	0.016	mg/kg dry	1	"	"	"	"	
Chrysene	0.52	0.12	0.015	mg/kg dry	1	"	"	"	"	
Dibenz [a,h] acridine	<0.12	0.12	0.0052	mg/kg dry	1	"	"	"	"	T5
Dibenz(a,h)anthracene	<0.12	0.12	0.012	mg/kg dry	1	"	"	"	"	
Dibenz(a,j)acridine	<0.12	0.12	0.010	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,e)pyrene	<0.12	0.12	0.011	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,h)pyrene	<0.12	0.12	0.017	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,i)pyrene	<0.12	0.12	0.014	mg/kg dry	1	"	"	"	"	T5
Dibenzo(a,l)pyrene	0.14	0.12	0.019	mg/kg dry	1	"	"	"	"	T5
Fluoranthene	0.76	0.12	0.015	mg/kg dry	1	"	"	"	"	
Fluorene	<0.12	0.12	0.026	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.34	0.12	0.015	mg/kg dry	1	"	"	"	"	
Naphthalene	0.13	0.12	0.036	mg/kg dry	1	"	"	"	"	
Perylene	<0.12	0.12	0.015	mg/kg dry	1	"	"	"	"	T5
Phenanthrene	0.54	0.12	0.017	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

PAH 8270D (EXTENDED LIST)
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Pyrene	0.75	0.12	0.018	mg/kg dry	1	B6K2902	11/29/16	11/30/16	EPA 8270D	
Quinoline	<0.12	0.12	0.034	mg/kg dry	1	"	"	"	"	T5
Surrogate: 2-Fluorobiphenyl	66.7			30.7-107 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	69.1			30-113 %		"	"	"	"	
Surrogate: Terphenyl-d14	75.2			30-139 %		"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05

Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.066	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	95.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	90.5			60.9-138 %		"	"	"	"	

ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05

Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/28/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.066	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	96.0			60.9-138 %		"	"	"	"	

ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05

Aroclor 1016	<0.23	0.23	0.026	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.23	0.23	0.068	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.23	0.23	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	95.0			60.9-138 %		"	"	"	"	

ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05

Aroclor 1016	<0.24	0.24	0.028	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.24	0.24	0.072	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	102			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	98.5			60.9-138 %		"	"	"	"	

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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

Aroclor 1016	<0.25	0.25	0.029	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.25	0.25	0.076	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	88.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	86.0			60.9-138 %		"	"	"	"	

ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05

Aroclor 1016	<0.30	0.30	0.035	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.30	0.30	0.091	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.30	0.30	0.032	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.30	0.30	0.027	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.30	0.30	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.30	0.30	0.018	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.30	0.30	0.020	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	97.5			60.9-138 %		"	"	"	"	

ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05

Aroclor 1016	<0.22	0.22	0.025	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.065	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	100			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	93.5			60.9-138 %		"	"	"	"	

ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05

Aroclor 1016	<0.21	0.21	0.024	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.21	0.21	0.063	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.21	0.21	0.022	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.21	0.21	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.21	0.21	0.016	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.21	0.21	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.21	0.21	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	93.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	91.0			60.9-138 %		"	"	"	"	

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St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Aroclor 1016	<0.24	0.24	0.028	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.24	0.24	0.072	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	105			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	95.5			60.9-138 %		"	"	"	"	
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Aroclor 1016	<0.22	0.22	0.026	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.067	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	92.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	89.0			60.9-138 %		"	"	"	"	
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
Aroclor 1016	<0.22	0.22	0.026	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.22	0.22	0.067	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	90.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	89.5			60.9-138 %		"	"	"	"	
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
Aroclor 1016	<0.20	0.20	0.023	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.20	0.20	0.061	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.20	0.20	0.021	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.20	0.20	0.018	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.20	0.20	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.20	0.20	0.012	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.20	0.20	0.013	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	90.5			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	82.0			60.9-138 %		"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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PCB 8082A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Aroclor 1016	<0.25	0.25	0.029	mg/kg dry	1	B6K2802	11/28/16	11/29/16	EPA 8082A	
Aroclor 1221	<0.25	0.25	0.076	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	84.0			65.3-143 %		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	76.0			60.9-138 %		"	"	"	"	



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550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
% Solids	90			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-2 (2'-4') (1605064-02) Soil Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
% Solids	92			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
% Solids	83			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
% Solids	83			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
% Solids	91			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
% Solids	91			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
% Solids	88			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
% Solids	83			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
% Solids	79			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
% Solids	66			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05										
% Solids	92			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
% Solids	95			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
% Solids	83			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
% Solids	89			%	1	B6K2917	11/29/16	11/30/16	% calculation	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
% Solids	90			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
% Solids	98			%	1	B6K2917	11/29/16	11/30/16	% calculation	
ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
% Solids	79			%	1	B6K2917	11/29/16	11/30/16	% calculation	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.36	0.36	0.082	mg/kg dry	1	B6K2901	11/29/16	11/29/16	EPA 8270D	
1,2-Dichlorobenzene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.36	0.36	0.064	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.74	0.74	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.74	0.74	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.74	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.74	0.74	0.074	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.74	0.74	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Aniline	<0.74	0.74	0.073	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Benzidine	<2.7	2.7	0.48	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.48	0.36	0.071	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.49	0.36	0.077	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	0.59	0.36	0.065	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.36	0.36	0.077	mg/kg dry	1	B6K2901	11/29/16	11/29/16	EPA 8270D	
Benzoic acid	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.36	0.36	0.086	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.36	0.36	0.089	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
Carbazole	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Chrysene	0.55	0.36	0.070	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.36	0.36	0.087	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.36	0.36	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.93	0.36	0.075	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.36	0.36	0.068	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
Isophorone	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.36	0.36	0.080	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.69	0.36	0.073	mg/kg dry	1	"	"	"	"	
Phenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	1.1	0.36	0.065	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	73.5			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	62.2			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	46.9			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	62.1			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	60.4			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	59.5			51-99.6 %		"	"	"	"	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.36	0.36	0.082	mg/kg dry	1	B6K2901	11/29/16	11/29/16	EPA 8270D	
1,2-Dichlorobenzene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.36	0.36	0.064	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.74	0.74	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.74	0.74	0.078	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.74	0.74	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.74	0.74	0.090	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.74	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.74	0.74	0.074	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.74	0.74	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Aniline	<0.74	0.74	0.073	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Benzidine	<2.7	2.7	0.48	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.36	0.36	0.065	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.36	0.36	0.077	mg/kg dry	1	B6K2901	11/29/16	11/29/16	EPA 8270D	
Benzoic acid	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.36	0.36	0.086	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.36	0.36	0.089	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.36	0.36	0.091	mg/kg dry	1	"	"	"	"	
Carbazole	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Chrysene	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.36	0.36	0.069	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.36	0.36	0.087	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.36	0.36	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.36	0.36	0.068	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
Isophorone	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.36	0.36	0.080	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.36	0.36	0.073	mg/kg dry	1	"	"	"	"	
Phenol	<0.74	0.74	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	<0.36	0.36	0.065	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	81.8			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.4			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.2			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.7			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	64.9			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	61.5			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.38	0.38	0.085	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.38	0.38	0.076	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.38	0.38	0.066	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.76	0.76	0.22	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.76	0.76	0.081	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.76	0.76	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.76	0.76	0.15	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.76	0.76	0.081	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.76	0.76	0.15	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.38	0.38	0.091	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.76	0.76	0.093	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.76	0.76	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.76	0.76	0.093	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.51	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.38	0.38	0.082	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.76	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.76	0.76	0.16	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.76	0.76	0.076	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.38	0.38	0.094	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.76	0.76	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.38	0.38	0.072	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	
Aniline	<0.76	0.76	0.075	mg/kg dry	1	"	"	"	"	
Anthracene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Benzidine	<2.8	2.8	0.50	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.43	0.38	0.074	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.47	0.38	0.080	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	0.66	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.38	0.38	0.080	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.38	0.38	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.76	0.76	0.17	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.38	0.38	0.089	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.38	0.38	0.092	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.38	0.38	0.094	mg/kg dry	1	"	"	"	"	
Carbazole	<0.38	0.38	0.086	mg/kg dry	1	"	"	"	"	
Chrysene	0.58	0.38	0.073	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.38	0.38	0.093	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.38	0.38	0.077	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.38	0.38	0.072	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.38	0.38	0.090	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.38	0.38	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.79	0.38	0.077	mg/kg dry	1	"	"	"	"	
Fluorene	<0.38	0.38	0.074	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.38	0.38	0.070	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.38	0.38	0.088	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.38	0.38	0.078	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.38	0.38	0.093	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.38	0.38	0.082	mg/kg dry	1	"	"	"	"	
Isophorone	<0.38	0.38	0.086	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.38	0.38	0.081	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.38	0.38	0.091	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.38	0.38	0.080	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.38	0.38	0.083	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.38	0.38	0.076	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.76	0.76	0.22	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.68	0.38	0.075	mg/kg dry	1	"	"	"	"	
Phenol	<0.76	0.76	0.16	mg/kg dry	1	"	"	"	"	
Pyrene	0.87	0.38	0.067	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	84.0			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.1			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.9			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	63.1			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	60.2			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.40	0.40	0.090	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.40	0.40	0.081	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.40	0.40	0.070	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.81	0.81	0.23	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.81	0.81	0.086	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.81	0.81	0.19	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.81	0.81	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.81	0.81	0.086	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.81	0.81	0.16	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.40	0.40	0.096	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.81	0.81	0.099	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.81	0.81	0.22	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.81	0.81	0.099	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.9	1.9	0.54	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.40	0.40	0.087	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.81	0.81	0.13	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.81	0.81	0.17	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.81	0.81	0.081	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.40	0.40	0.10	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.81	0.81	0.20	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.40	0.40	0.076	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.40	0.40	0.086	mg/kg dry	1	"	"	"	"	
Aniline	<0.81	0.81	0.080	mg/kg dry	1	"	"	"	"	
Anthracene	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Benzidine	<3.0	3.0	0.53	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.40	0.40	0.078	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.40	0.40	0.084	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.40	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.40	0.40	0.086	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.40	0.40	0.084	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.40	0.40	0.077	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.40	0.40	0.094	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	0.40	0.098	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.40	0.40	0.10	mg/kg dry	1	"	"	"	"	
Carbazole	<0.40	0.40	0.092	mg/kg dry	1	"	"	"	"	
Chrysene	<0.40	0.40	0.077	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.40	0.40	0.099	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.40	0.40	0.076	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.40	0.40	0.095	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.40	0.40	0.12	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
Fluorene	<0.40	0.40	0.078	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.40	0.40	0.075	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.40	0.40	0.099	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.40	0.40	0.087	mg/kg dry	1	"	"	"	"	
Isophorone	<0.40	0.40	0.092	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.40	0.40	0.086	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.40	0.40	0.096	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.40	0.40	0.084	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.40	0.40	0.088	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.40	0.40	0.081	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.81	0.81	0.23	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.40	0.40	0.080	mg/kg dry	1	"	"	"	"	
Phenol	<0.81	0.81	0.17	mg/kg dry	1	"	"	"	"	
Pyrene	<0.40	0.40	0.071	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83.8			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.3			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	47.7			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	50.8			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	56.8			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	63.8			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (10'-12') (1605064-09RE1) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<1.2	1.2	0.28	mg/kg dry	1	B6K3003	11/30/16	12/01/16	EPA 8270D	
1,2-Dichlorobenzene	<1.2	1.2	0.25	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<1.2	1.2	0.22	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<2.5	2.5	0.72	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<2.5	2.5	0.27	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<2.5	2.5	0.61	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<2.5	2.5	0.49	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<2.5	2.5	0.27	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<2.5	2.5	0.49	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<1.2	1.2	0.29	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<1.2	1.2	0.30	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<2.5	2.5	0.31	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<2.5	2.5	0.68	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<2.5	2.5	0.31	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.1	6.1	1.7	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<1.2	1.2	0.27	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<2.5	2.5	0.42	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<2.5	2.5	0.53	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<2.5	2.5	0.25	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<1.2	1.2	0.31	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<2.5	2.5	0.64	mg/kg dry	1	"	"	"	"	
Acenaphthene	<1.2	1.2	0.24	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<1.2	1.2	0.27	mg/kg dry	1	"	"	"	"	
Aniline	<2.5	2.5	0.25	mg/kg dry	1	"	"	"	"	
Anthracene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
Benzidine	<9.5	9.5	1.7	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	4.3	1.2	0.25	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	3.9	1.2	0.26	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	6.2	1.2	0.22	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	1.7	1.2	0.27	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (10'-12') (1605064-09RE1) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	2.5	1.2	0.26	mg/kg dry	1	B6K3003	11/30/16	12/01/16	EPA 8270D	
Benzoic acid	<1.2	1.2	0.24	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<1.2	1.2	0.29	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<1.2	1.2	0.30	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<1.2	1.2	0.31	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<1.2	1.2	0.31	mg/kg dry	1	"	"	"	"	
Carbazole	<1.2	1.2	0.29	mg/kg dry	1	"	"	"	"	
Chrysene	5.3	1.2	0.24	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<1.2	1.2	0.31	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<1.2	1.2	0.24	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<1.2	1.2	0.30	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<1.2	1.2	0.38	mg/kg dry	1	"	"	"	"	
Fluoranthene	4.5	1.2	0.26	mg/kg dry	1	"	"	"	"	
Fluorene	<1.2	1.2	0.25	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<1.2	1.2	0.23	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<1.2	1.2	0.29	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<1.2	1.2	0.31	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	2.0	1.2	0.27	mg/kg dry	1	"	"	"	"	
Isophorone	<1.2	1.2	0.29	mg/kg dry	1	"	"	"	"	
Naphthalene	<1.2	1.2	0.27	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<1.2	1.2	0.30	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<1.2	1.2	0.28	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<1.2	1.2	0.25	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<2.5	2.5	0.72	mg/kg dry	1	"	"	"	"	
Phenanthrene	1.2	1.2	0.25	mg/kg dry	1	"	"	"	"	
Phenol	<2.5	2.5	0.53	mg/kg dry	1	"	"	"	"	
Pyrene	4.3	1.2	0.22	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	64.7			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	60.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	46.5			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	52.0			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	52.3			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	59.8			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.50	0.50	0.11	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.50	0.50	0.088	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<1.0	1.0	0.29	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<1.0	1.0	0.24	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<1.0	1.0	0.20	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<1.0	1.0	0.20	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<1.0	1.0	0.12	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<1.0	1.0	0.27	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<1.0	1.0	0.12	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<2.4	2.4	0.68	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<1.0	1.0	0.17	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<1.0	1.0	0.21	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<1.0	1.0	0.10	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.50	0.50	0.13	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<1.0	1.0	0.26	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.50	0.50	0.095	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
Aniline	<1.0	1.0	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Benzidine	<3.8	3.8	0.67	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.50	0.50	0.098	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.50	0.50	0.089	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.50	0.50	0.11	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.50	0.50	0.097	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.50	0.50	0.13	mg/kg dry	1	"	"	"	"	
Carbazole	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Chrysene	<0.50	0.50	0.097	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.50	0.50	0.095	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.50	0.50	0.15	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Fluorene	<0.50	0.50	0.098	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.50	0.50	0.094	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
Isophorone	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.50	0.50	0.12	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.50	0.50	0.11	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<1.0	1.0	0.29	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.50	0.50	0.10	mg/kg dry	1	"	"	"	"	
Phenol	<1.0	1.0	0.21	mg/kg dry	1	"	"	"	"	
Pyrene	<0.50	0.50	0.089	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	86.4			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	61.9			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	48.4			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	63.5			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	64.5			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.6			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.36	0.36	0.082	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.36	0.36	0.073	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.36	0.36	0.063	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.73	0.73	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.73	0.73	0.077	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.73	0.73	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.73	0.73	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.73	0.73	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.73	0.73	0.077	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.73	0.73	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.73	0.73	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.36	0.36	0.087	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.73	0.73	0.089	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.73	0.73	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.73	0.73	0.089	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.7	1.7	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.73	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.73	0.73	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.73	0.73	0.073	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.73	0.73	0.18	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.068	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
Aniline	<0.73	0.73	0.072	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Benzidine	<2.7	2.7	0.48	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.36	0.36	0.064	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (0'-2') (1605064-11) Soil Sampled: 11/16/16 15:50 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.36	0.36	0.076	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.73	0.73	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.36	0.36	0.085	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.36	0.36	0.088	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.36	0.36	0.090	mg/kg dry	1	"	"	"	"	
Carbazole	<0.36	0.36	0.083	mg/kg dry	1	"	"	"	"	
Chrysene	<0.36	0.36	0.070	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.36	0.36	0.089	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.36	0.36	0.068	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.36	0.36	0.086	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.36	0.36	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.36	0.36	0.074	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.071	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.36	0.36	0.067	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.36	0.36	0.084	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.36	0.36	0.075	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.36	0.36	0.089	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.078	mg/kg dry	1	"	"	"	"	
Isophorone	<0.36	0.36	0.083	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.077	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.36	0.36	0.087	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.36	0.36	0.076	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.36	0.36	0.079	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.36	0.36	0.073	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.73	0.73	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.36	0.36	0.072	mg/kg dry	1	"	"	"	"	
Phenol	<0.73	0.73	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	<0.36	0.36	0.064	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	84.8			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	66.5			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	53.3			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	62.9			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	65.0			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	60.6			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.35	0.35	0.079	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
1,2-Dichlorobenzene	<0.35	0.35	0.071	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.35	0.35	0.061	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.71	0.71	0.20	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.71	0.71	0.075	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.71	0.71	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.71	0.71	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.71	0.71	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.71	0.71	0.075	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.71	0.71	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.35	0.35	0.081	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.71	0.71	0.16	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.35	0.35	0.084	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.71	0.71	0.086	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.71	0.71	0.19	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.71	0.71	0.086	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.7	1.7	0.47	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.71	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.71	0.71	0.15	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.71	0.71	0.071	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.35	0.35	0.087	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.71	0.71	0.18	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.35	0.35	0.066	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.35	0.35	0.075	mg/kg dry	1	"	"	"	"	
Aniline	<0.71	0.71	0.069	mg/kg dry	1	"	"	"	"	
Anthracene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Benzidine	<2.6	2.6	0.46	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.35	0.35	0.068	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.35	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.35	0.35	0.075	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.35	0.35	0.074	mg/kg dry	1	B6K2201	11/22/16	11/23/16	EPA 8270D	
Benzoic acid	<0.35	0.35	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.71	0.71	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.35	0.35	0.081	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.35	0.35	0.082	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.35	0.35	0.085	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.35	0.35	0.087	mg/kg dry	1	"	"	"	"	
Carbazole	<0.35	0.35	0.080	mg/kg dry	1	"	"	"	"	
Chrysene	<0.35	0.35	0.067	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.35	0.35	0.086	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.35	0.35	0.066	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.35	0.35	0.083	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	0.35	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.35	0.35	0.072	mg/kg dry	1	"	"	"	"	
Fluorene	<0.35	0.35	0.068	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.35	0.35	0.065	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.35	0.35	0.081	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.35	0.35	0.073	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.35	0.35	0.086	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.35	0.35	0.076	mg/kg dry	1	"	"	"	"	
Isophorone	<0.35	0.35	0.080	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.35	0.35	0.075	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.35	0.35	0.084	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.35	0.35	0.074	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.35	0.35	0.077	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.35	0.35	0.071	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.71	0.71	0.20	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.35	0.35	0.069	mg/kg dry	1	"	"	"	"	
Phenol	<0.71	0.71	0.15	mg/kg dry	1	"	"	"	"	
Pyrene	<0.35	0.35	0.062	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	81.8			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	62.9			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	51.0			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.7			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	64.4			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	58.6			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.40	0.40	0.090	mg/kg dry	1	B6K2201	11/22/16	11/28/16	EPA 8270D	
1,2-Dichlorobenzene	<0.40	0.40	0.081	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.40	0.40	0.070	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.81	0.81	0.23	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.81	0.81	0.086	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.81	0.81	0.19	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.81	0.81	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.81	0.81	0.086	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.81	0.81	0.16	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.40	0.40	0.096	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.81	0.81	0.099	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.81	0.81	0.22	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.81	0.81	0.099	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.9	1.9	0.54	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.40	0.40	0.087	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.81	0.81	0.13	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.81	0.81	0.17	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.81	0.81	0.081	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.40	0.40	0.082	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.40	0.40	0.10	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.81	0.81	0.20	mg/kg dry	1	"	"	"	"	
Acenaphthene	0.51	0.40	0.076	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.40	0.40	0.086	mg/kg dry	1	"	"	"	"	
Aniline	<0.81	0.81	0.080	mg/kg dry	1	"	"	"	"	
Anthracene	0.95	0.40	0.083	mg/kg dry	1	"	"	"	"	
Benzidine	<3.0	3.0	0.53	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	1.3	0.40	0.078	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	1.0	0.40	0.084	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	1.3	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	0.60	0.40	0.086	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	0.50	0.40	0.084	mg/kg dry	1	B6K2201	11/22/16	11/28/16	EPA 8270D	
Benzoic acid	<0.40	0.40	0.077	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.81	0.81	0.18	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.40	0.40	0.094	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	0.40	0.098	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.40	0.40	0.10	mg/kg dry	1	"	"	"	"	
Carbazole	0.47	0.40	0.092	mg/kg dry	1	"	"	"	"	
Chrysene	1.3	0.40	0.077	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.40	0.40	0.099	mg/kg dry	1	"	"	"	"	
Dibenzofuran	0.43	0.40	0.082	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.40	0.40	0.076	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.40	0.40	0.095	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.40	0.40	0.12	mg/kg dry	1	"	"	"	"	
Fluoranthene	2.6	0.40	0.082	mg/kg dry	1	"	"	"	"	
Fluorene	0.52	0.40	0.078	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.40	0.40	0.075	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.40	0.40	0.093	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.40	0.40	0.083	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.40	0.40	0.099	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.66	0.40	0.087	mg/kg dry	1	"	"	"	"	
Isophorone	<0.40	0.40	0.092	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.40	0.40	0.086	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.40	0.40	0.096	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.40	0.40	0.084	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.40	0.40	0.088	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.40	0.40	0.081	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.81	0.81	0.23	mg/kg dry	1	"	"	"	"	
Phenanthrene	3.3	0.40	0.080	mg/kg dry	1	"	"	"	"	
Phenol	<0.81	0.81	0.17	mg/kg dry	1	"	"	"	"	
Pyrene	2.3	0.40	0.071	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	82.9			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.0			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	55.3			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	62.0			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	66.6			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.5			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.37	0.37	0.084	mg/kg dry	1	B6K2201	11/22/16	11/28/16	EPA 8270D	
1,2-Dichlorobenzene	<0.37	0.37	0.075	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.37	0.37	0.065	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.75	0.75	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.75	0.75	0.080	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.75	0.75	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.75	0.75	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.75	0.75	0.15	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.75	0.75	0.080	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.75	0.75	0.15	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.37	0.37	0.087	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.75	0.75	0.17	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.37	0.37	0.090	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.75	0.75	0.092	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.75	0.75	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.75	0.75	0.092	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.51	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.37	0.37	0.081	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.75	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.75	0.75	0.16	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.75	0.75	0.075	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.37	0.37	0.093	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.75	0.75	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.37	0.37	0.071	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.37	0.37	0.080	mg/kg dry	1	"	"	"	"	
Aniline	<0.75	0.75	0.074	mg/kg dry	1	"	"	"	"	
Anthracene	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
Benzidine	<2.8	2.8	0.49	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.37	0.37	0.073	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.37	0.37	0.079	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.37	0.37	0.066	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.37	0.37	0.080	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.37	0.37	0.079	mg/kg dry	1	B6K2201	11/22/16	11/28/16	EPA 8270D	
Benzoic acid	<0.37	0.37	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.75	0.75	0.17	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.37	0.37	0.087	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.37	0.37	0.088	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.37	0.37	0.091	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.37	0.37	0.093	mg/kg dry	1	"	"	"	"	
Carbazole	<0.37	0.37	0.085	mg/kg dry	1	"	"	"	"	
Chrysene	<0.37	0.37	0.072	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.37	0.37	0.092	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.37	0.37	0.071	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.37	0.37	0.089	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.37	0.37	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
Fluorene	<0.37	0.37	0.073	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.37	0.37	0.070	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.37	0.37	0.087	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.37	0.37	0.092	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.37	0.37	0.081	mg/kg dry	1	"	"	"	"	
Isophorone	<0.37	0.37	0.085	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.37	0.37	0.080	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.37	0.37	0.090	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.37	0.37	0.079	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.37	0.37	0.082	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.37	0.37	0.075	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.75	0.75	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.37	0.37	0.074	mg/kg dry	1	"	"	"	"	
Phenol	<0.75	0.75	0.16	mg/kg dry	1	"	"	"	"	
Pyrene	<0.37	0.37	0.066	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	77.9			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	56.0			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	48.2			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	54.5			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	56.8			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	54.0			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.37	0.37	0.083	mg/kg dry	1	B6K2201	11/22/16	11/29/16	EPA 8270D	
1,2-Dichlorobenzene	<0.37	0.37	0.074	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.37	0.37	0.064	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	0.74	0.079	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.74	0.74	0.18	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.74	0.74	0.17	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.74	0.74	0.079	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.74	0.74	0.14	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.37	0.37	0.086	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.74	0.74	0.17	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.37	0.37	0.089	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.74	0.74	0.091	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.74	0.74	0.20	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.74	0.74	0.091	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.8	1.8	0.50	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.37	0.37	0.080	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.74	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.74	0.74	0.074	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.37	0.37	0.092	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.74	0.74	0.19	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.37	0.37	0.070	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.37	0.37	0.079	mg/kg dry	1	"	"	"	"	
Aniline	<0.74	0.74	0.073	mg/kg dry	1	"	"	"	"	
Anthracene	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
Benzidine	<2.8	2.8	0.49	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	0.63	0.37	0.072	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	0.77	0.37	0.078	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	0.87	0.37	0.066	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	0.58	0.37	0.079	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.37	0.37	0.078	mg/kg dry	1	B6K2201	11/22/16	11/29/16	EPA 8270D	
Benzoic acid	<0.37	0.37	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.74	0.74	0.17	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.37	0.37	0.086	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.37	0.37	0.087	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.37	0.37	0.090	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.37	0.37	0.092	mg/kg dry	1	"	"	"	"	
Carbazole	<0.37	0.37	0.084	mg/kg dry	1	"	"	"	"	
Chrysene	0.71	0.37	0.071	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.37	0.37	0.091	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.37	0.37	0.076	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.37	0.37	0.070	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.37	0.37	0.088	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.37	0.37	0.11	mg/kg dry	1	"	"	"	"	
Fluoranthene	1.1	0.37	0.076	mg/kg dry	1	"	"	"	"	
Fluorene	<0.37	0.37	0.072	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.37	0.37	0.069	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.37	0.37	0.086	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.37	0.37	0.077	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.37	0.37	0.091	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.54	0.37	0.080	mg/kg dry	1	"	"	"	"	
Isophorone	<0.37	0.37	0.084	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.37	0.37	0.079	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.37	0.37	0.089	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.37	0.37	0.078	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.37	0.37	0.081	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.37	0.37	0.074	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.74	0.74	0.21	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.37	0.37	0.073	mg/kg dry	1	"	"	"	"	
Phenol	<0.74	0.74	0.16	mg/kg dry	1	"	"	"	"	
Pyrene	1.4	0.37	0.066	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	74.7			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.6			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	43.0			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	56.6			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	57.1			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	56.5			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<0.34	0.34	0.077	mg/kg dry	1	B6K2201	11/22/16	11/29/16	EPA 8270D	
1,2-Dichlorobenzene	<0.34	0.34	0.068	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.34	0.34	0.059	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.68	0.68	0.19	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.68	0.68	0.072	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.68	0.68	0.16	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.68	0.68	0.15	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.68	0.68	0.13	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.68	0.68	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.68	0.68	0.13	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.34	0.34	0.079	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.68	0.68	0.15	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.34	0.34	0.082	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.68	0.68	0.084	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.68	0.68	0.18	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<0.68	0.68	0.084	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<1.6	1.6	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.34	0.34	0.073	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.68	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.68	0.68	0.14	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.68	0.68	0.068	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.34	0.34	0.085	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.68	0.68	0.17	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.34	0.34	0.064	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.34	0.34	0.072	mg/kg dry	1	"	"	"	"	
Aniline	<0.68	0.68	0.067	mg/kg dry	1	"	"	"	"	
Anthracene	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
Benzidine	<2.6	2.6	0.45	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	<0.34	0.34	0.066	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	<0.34	0.34	0.071	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	<0.34	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	<0.34	0.34	0.072	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	<0.34	0.34	0.071	mg/kg dry	1	B6K2201	11/22/16	11/29/16	EPA 8270D	
Benzoic acid	<0.34	0.34	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.68	0.68	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.34	0.34	0.079	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.34	0.34	0.080	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.34	0.34	0.083	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	0.34	0.085	mg/kg dry	1	"	"	"	"	
Carbazole	<0.34	0.34	0.078	mg/kg dry	1	"	"	"	"	
Chrysene	<0.34	0.34	0.065	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<0.34	0.34	0.084	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.34	0.34	0.064	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.34	0.34	0.081	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.34	0.34	0.10	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.34	0.34	0.069	mg/kg dry	1	"	"	"	"	
Fluorene	<0.34	0.34	0.066	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.34	0.34	0.063	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.34	0.34	0.079	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.34	0.34	0.070	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.34	0.34	0.084	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.34	0.34	0.073	mg/kg dry	1	"	"	"	"	
Isophorone	<0.34	0.34	0.078	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.34	0.34	0.072	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.34	0.34	0.082	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.34	0.34	0.071	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.34	0.34	0.074	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.34	0.34	0.068	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.68	0.68	0.19	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.34	0.34	0.067	mg/kg dry	1	"	"	"	"	
Phenol	<0.68	0.68	0.14	mg/kg dry	1	"	"	"	"	
Pyrene	<0.34	0.34	0.060	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	74.3			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	52.6			53.9-97.9 %		"	"	"	"	S-GC
Surrogate: 2-Fluorophenol	45.3			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	50.7			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	53.2			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	55.3			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17RE1) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
1,2,4-Trichlorobenzene	<1.3	1.3	0.28	mg/kg dry	1	B6K3003	11/30/16	12/01/16	EPA 8270D	
1,2-Dichlorobenzene	<1.3	1.3	0.25	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<1.3	1.3	0.22	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<2.5	2.5	0.72	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<2.5	2.5	0.27	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<2.5	2.5	0.61	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<2.5	2.5	0.49	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<2.5	2.5	0.27	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<2.5	2.5	0.49	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<1.3	1.3	0.29	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<1.3	1.3	0.30	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<2.5	2.5	0.31	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<2.5	2.5	0.68	mg/kg dry	1	"	"	"	"	
3&4-Methylphenol	<2.5	2.5	0.31	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.1	6.1	1.7	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<1.3	1.3	0.27	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<2.5	2.5	0.42	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<2.5	2.5	0.53	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<2.5	2.5	0.25	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<1.3	1.3	0.31	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<2.5	2.5	0.64	mg/kg dry	1	"	"	"	"	
Acenaphthene	<1.3	1.3	0.24	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<1.3	1.3	0.27	mg/kg dry	1	"	"	"	"	
Aniline	<2.5	2.5	0.25	mg/kg dry	1	"	"	"	"	
Anthracene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Benzidine	<9.5	9.5	1.7	mg/kg dry	1	"	"	"	"	
Benzo(a)anthracene	3.7	1.3	0.25	mg/kg dry	1	"	"	"	"	
Benzo(a)pyrene	3.3	1.3	0.27	mg/kg dry	1	"	"	"	"	
Benzo(b)fluoranthene	5.0	1.3	0.22	mg/kg dry	1	"	"	"	"	
Benzo(g,h,i)perylene	1.5	1.3	0.27	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17RE1) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05										
Benzo(k)fluoranthene	1.9	1.3	0.27	mg/kg dry	1	B6K3003	11/30/16	12/01/16	EPA 8270D	
Benzoic acid	<1.3	1.3	0.24	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<2.5	2.5	0.57	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<1.3	1.3	0.29	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<1.3	1.3	0.30	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<1.3	1.3	0.31	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<1.3	1.3	0.31	mg/kg dry	1	"	"	"	"	
Carbazole	<1.3	1.3	0.29	mg/kg dry	1	"	"	"	"	
Chrysene	4.4	1.3	0.24	mg/kg dry	1	"	"	"	"	
Dibenz(a,h)anthracene	<1.3	1.3	0.31	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<1.3	1.3	0.24	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<1.3	1.3	0.30	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<1.3	1.3	0.38	mg/kg dry	1	"	"	"	"	
Fluoranthene	4.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Fluorene	<1.3	1.3	0.25	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<1.3	1.3	0.23	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<1.3	1.3	0.29	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<1.3	1.3	0.26	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<1.3	1.3	0.31	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.6	1.3	0.27	mg/kg dry	1	"	"	"	"	
Isophorone	<1.3	1.3	0.29	mg/kg dry	1	"	"	"	"	
Naphthalene	<1.3	1.3	0.27	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<1.3	1.3	0.30	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<1.3	1.3	0.27	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<1.3	1.3	0.28	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<1.3	1.3	0.25	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<2.5	2.5	0.72	mg/kg dry	1	"	"	"	"	
Phenanthrene	1.4	1.3	0.25	mg/kg dry	1	"	"	"	"	
Phenol	<2.5	2.5	0.53	mg/kg dry	1	"	"	"	"	
Pyrene	4.1	1.3	0.22	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	69.7			53-107 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	66.5			53.9-97.9 %		"	"	"	"	
Surrogate: 2-Fluorophenol	51.7			42.5-94.9 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	58.9			48.9-100 %		"	"	"	"	
Surrogate: Phenol-d6	57.3			50.4-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	64.3			51-99.6 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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TCLP METALS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
Lead	<0.075	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
Lead	0.14	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Lead	0.42	0.075	0.018	mg/L	1	B6L1402	12/14/16	12/19/16	EPA 1311/6010C	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.21	0.21	0.021	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.21	0.21	0.024	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.21	0.21	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.21	0.21	0.010	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.21	0.21	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.21	0.21	0.016	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.52	0.52	0.10	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.21	0.21	0.031	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.52	0.52	0.074	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.21	0.21	0.019	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.52	0.52	0.048	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.21	0.21	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.21	0.21	0.014	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.21	0.21	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.21	0.21	0.022	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.21	0.21	0.026	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	0.21	0.0094	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.21	0.21	0.016	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.21	0.21	0.017	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.21	0.21	0.054	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.0	1.0	0.098	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.21	0.21	0.023	mg/kg dry	1	"	"	"	"	
Acetone	<1.0	1.0	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.21	0.21	0.026	mg/kg dry	1	"	"	"	"	
Benzene	<0.21	0.21	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.21	0.21	0.024	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.21	0.21	0.020	mg/kg dry	1	"	"	"	"	
Bromoform	<0.21	0.21	0.038	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.21	0.21	0.031	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.21	0.21	0.026	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.21	0.21	0.031	mg/kg dry	1	"	"	"	"	
Chloroform	<0.21	0.21	0.032	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.21	0.21	0.028	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.21	0.21	0.013	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-1 (0'-2') (1605064-01) Soil Sampled: 11/16/16 08:55 Received: 11/17/16 17:05										
cis-1,3-Dichloropropene	<0.21	0.21	0.026	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Dibromochloromethane	<0.21	0.21	0.026	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.21	0.21	0.026	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.21	0.21	0.039	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.21	0.21	0.010	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.21	0.21	0.025	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.21	0.21	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.52	0.52	0.082	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.21	0.21	0.031	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.42	0.42	0.050	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.21	0.21	0.045	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.21	0.21	0.010	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.52	0.52	0.063	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.52	0.52	0.050	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.21	0.21	0.017	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.21	0.21	0.010	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.21	0.21	0.018	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.21	0.21	0.011	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.21	0.21	0.023	mg/kg dry	1	"	"	"	"	
Styrene	<0.21	0.21	0.017	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.21	0.21	0.027	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.21	0.21	0.040	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.21	0.21	0.0071	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.21	0.21	0.019	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.21	0.21	0.019	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.21	0.21	0.030	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.21	0.21	0.022	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	100			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	

ATP-2 (2'-4') (1605064-02) Soil Sampled: 11/16/16 10:15 Received: 11/17/16 17:05

W-03

1,1,1,2-Tetrachloroethane	<0.27	0.27	0.027	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.27	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.27	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.27	0.27	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (2'-4') (1605064-02) Soil										W-03
Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
1,1-Dichloroethene	<0.27	0.27	0.018	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1-Dichloropropene	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.68	0.68	0.13	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.27	0.27	0.041	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.68	0.68	0.097	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.27	0.27	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.68	0.68	0.063	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.27	0.27	0.018	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.27	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.27	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.27	0.27	0.022	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.27	0.27	0.071	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.4	1.4	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.27	0.27	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<1.4	1.4	0.16	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
Benzene	<0.27	0.27	0.020	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.27	0.27	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.27	0.27	0.026	mg/kg dry	1	"	"	"	"	
Bromoform	<0.27	0.27	0.049	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.27	0.27	0.041	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.27	0.27	0.019	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.27	0.27	0.041	mg/kg dry	1	"	"	"	"	
Chloroform	<0.27	0.27	0.042	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.27	0.27	0.037	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.27	0.27	0.016	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.27	0.27	0.034	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.27	0.27	0.050	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.27	0.27	0.014	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.27	0.27	0.033	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (2'-4') (1605064-02) Soil										W-03
Sampled: 11/16/16 10:15 Received: 11/17/16 17:05										
Ethylbenzene	<0.27	0.27	0.029	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Hexachlorobutadiene	<0.68	0.68	0.11	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.27	0.27	0.041	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.55	0.55	0.065	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.27	0.27	0.059	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.27	0.27	0.013	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.68	0.68	0.082	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.68	0.68	0.065	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.27	0.27	0.022	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.27	0.27	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.27	0.27	0.023	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.27	0.27	0.015	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.27	0.27	0.030	mg/kg dry	1	"	"	"	"	
Styrene	<0.27	0.27	0.022	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.27	0.27	0.035	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.27	0.27	0.052	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.4	1.4	0.15	mg/kg dry	1	"	"	"	"	
Toluene	<0.27	0.27	0.0093	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.27	0.27	0.025	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.27	0.27	0.025	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.27	0.27	0.040	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.27	0.27	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	98.6			78.1-125 %		"	"	"	"	

ATP-2 (12'-14') (1605064-03) Soil

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.55	0.55	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.55	0.55	0.079	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
1,2-Dibromo-3-chloropropane	<0.55	0.55	0.051	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.10	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.22	0.22	0.041	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.55	0.55	0.088	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.44	0.44	0.053	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (12'-14') (1605064-03) Soil Sampled: 11/16/16 11:22 Received: 11/17/16 17:05										
Methylene chloride	<0.55	0.55	0.067	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Naphthalene	<0.55	0.55	0.053	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0075	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.032	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	102			78.1-125 %		"	"	"	"	

ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.60	0.60	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.60	0.60	0.086	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	0.60	0.055	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.063	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Benzene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.023	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.043	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.60	0.60	0.095	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.48	0.48	0.058	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.052	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.60	0.60	0.072	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.60	0.60	0.058	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-2 (14'-16') (1605064-04) Soil Sampled: 11/16/16 11:30 Received: 11/17/16 17:05										
sec-Butylbenzene	<0.24	0.24	0.027	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Styrene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.031	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.046	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0082	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.6			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	98.9			78.1-125 %		"	"	"	"	
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.24	0.24	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.59	0.59	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.59	0.59	0.084	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.59	0.59	0.054	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.061	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
4-Chlorotoluene	<0.24	0.24	0.026	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Benzene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.042	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.032	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.044	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.59	0.59	0.093	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.035	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.47	0.47	0.057	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.051	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.59	0.59	0.071	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.59	0.59	0.057	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.24	0.24	0.026	mg/kg dry	1	"	"	"	"	
Styrene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.031	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0080	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
trans-1,2-Dichloroethene	<0.24	0.24	0.021	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.021	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.24	0.24	0.034	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.23	0.23	0.023	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.58	0.58	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.58	0.58	0.082	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.58	0.58	0.053	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.23	0.23	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.23	0.23	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.23	0.23	0.060	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Benzene	<0.23	0.23	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.23	0.23	0.027	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
Bromodichloromethane	<0.23	0.23	0.022	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Bromoform	<0.23	0.23	0.042	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.23	0.23	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
Chloroform	<0.23	0.23	0.036	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.23	0.23	0.031	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.23	0.23	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.23	0.23	0.029	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.23	0.23	0.043	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.23	0.23	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.23	0.23	0.028	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.58	0.58	0.092	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.23	0.23	0.035	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.46	0.46	0.056	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.23	0.23	0.050	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.23	0.23	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.58	0.58	0.070	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.58	0.58	0.056	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.23	0.23	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.23	0.23	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.23	0.23	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.23	0.23	0.026	mg/kg dry	1	"	"	"	"	
Styrene	<0.23	0.23	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.23	0.23	0.030	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.23	0.23	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.23	0.23	0.0079	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.23	0.23	0.023	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.23	0.23	0.021	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.23	0.23	0.034	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.23	0.23	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9			80-124 %		"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05

Surrogate: Dibromofluoromethane	103		77.1-123 %			B6K2826	11/28/16	11/29/16	EPA 8260B	
Surrogate: Toluene-d8	99.6		78.1-125 %			"	"	"	"	

ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.25	0.25	0.025	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.62	0.62	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.62	0.62	0.088	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	0.26	0.25	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.62	0.62	0.057	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.25	0.25	0.064	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Benzene	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Bromoform	<0.25	0.25	0.044	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
Chloroform	<0.25	0.25	0.038	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Chloromethane	<0.25	0.25	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.25	0.25	0.046	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.62	0.62	0.097	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
m,p-Xylene	0.58	0.49	0.059	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.25	0.25	0.053	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.62	0.62	0.074	mg/kg dry	1	"	"	"	"	
Naphthalene	0.62	0.62	0.059	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	0.40	0.25	0.021	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Styrene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.25	0.25	0.047	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Toluene	<0.25	0.25	0.0084	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.25	0.25	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	

ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.56	0.56	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.56	0.56	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.56	0.56	0.052	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.035	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
Dichlorodifluoromethane	<0.22	0.22	0.041	mg/kg dry	1	B6K2826	11/28/16	11/29/16	EPA 8260B	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.56	0.56	0.089	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.45	0.45	0.054	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.56	0.56	0.067	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.56	0.56	0.054	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.043	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0076	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	101			78.1-125 %		"	"	"	"	

ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.25	0.25	0.025	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.63	0.63	0.12	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
1,2,3-Trichloropropane	<0.25	0.25	0.038	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,2,4-Trichlorobenzene	<0.63	0.63	0.090	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.63	0.63	0.058	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.25	0.25	0.066	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.3	1.3	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Acetone	<1.3	1.3	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Benzene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.25	0.25	0.024	mg/kg dry	1	"	"	"	"	
Bromoform	<0.25	0.25	0.046	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Chloroform	<0.25	0.25	0.039	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.25	0.25	0.034	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.25	0.25	0.047	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.63	0.63	0.10	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
m,p-Xylene	<0.51	0.51	0.061	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Methyl isobutyl ketone	<0.25	0.25	0.054	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.63	0.63	0.076	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.63	0.63	0.061	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Styrene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.25	0.25	0.033	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.25	0.25	0.048	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Toluene	<0.25	0.25	0.0086	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.6			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	100			78.1-125 %		"	"	"	"	

ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.28	0.28	0.028	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.28	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.28	0.28	0.023	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.28	0.28	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.28	0.28	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.28	0.28	0.018	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.28	0.28	0.021	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.71	0.71	0.14	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.28	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.71	0.71	0.10	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.28	0.28	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.71	0.71	0.065	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.28	0.28	0.034	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.28	0.28	0.018	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
1,2-Dichloroethane	<0.28	0.28	0.031	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,2-Dichloropropane	<0.28	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.28	0.28	0.013	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.28	0.28	0.021	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.28	0.28	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.28	0.28	0.073	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.4	1.4	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.28	0.28	0.031	mg/kg dry	1	"	"	"	"	
Acetone	<1.4	1.4	0.17	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
Benzene	<0.28	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.28	0.28	0.032	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.28	0.28	0.027	mg/kg dry	1	"	"	"	"	
Bromoform	<0.28	0.28	0.051	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.28	0.28	0.042	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.28	0.28	0.020	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.28	0.28	0.042	mg/kg dry	1	"	"	"	"	
Chloroform	<0.28	0.28	0.044	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.28	0.28	0.038	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.28	0.28	0.017	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.28	0.28	0.035	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.28	0.28	0.052	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.28	0.28	0.014	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.28	0.28	0.034	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.28	0.28	0.030	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.71	0.71	0.11	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.28	0.28	0.042	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.56	0.56	0.068	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.28	0.28	0.061	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.28	0.28	0.014	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.71	0.71	0.085	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.71	0.71	0.068	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.28	0.28	0.023	mg/kg dry	1	"	"	"	"	

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
n-Propylbenzene	<0.28	0.28	0.014	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
o-Xylene	<0.28	0.28	0.024	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.28	0.28	0.016	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.28	0.28	0.031	mg/kg dry	1	"	"	"	"	
Styrene	<0.28	0.28	0.023	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.28	0.28	0.037	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.28	0.28	0.054	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.4	1.4	0.16	mg/kg dry	1	"	"	"	"	
Toluene	<0.28	0.28	0.0096	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.28	0.28	0.025	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.28	0.28	0.025	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.28	0.28	0.041	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.28	0.28	0.030	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	101			78.1-125 %		"	"	"	"	

ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.25	0.25	0.025	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.62	0.62	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.62	0.62	0.088	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.62	0.62	0.057	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
2,2-Dichloropropane	<0.25	0.25	0.064	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
2-Butanone	<1.2	1.2	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Benzene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.25	0.25	0.024	mg/kg dry	1	"	"	"	"	
Bromoform	<0.25	0.25	0.045	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.25	0.25	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
Chloroform	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.25	0.25	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.25	0.25	0.046	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.62	0.62	0.098	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.25	0.25	0.037	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.50	0.50	0.059	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.25	0.25	0.053	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.62	0.62	0.074	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.62	0.62	0.059	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.25	0.25	0.021	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.25	0.25	0.027	mg/kg dry	1	"	"	"	"	
Styrene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.25	0.25	0.032	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-6 (8'-10') (1605064-12) Soil Sampled: 11/16/16 16:05 Received: 11/17/16 17:05										
Tetrachloroethene	<0.25	0.25	0.047	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Tetrahydrofuran	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Toluene	<0.25	0.25	0.0084	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.25	0.25	0.022	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.25	0.25	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	101			78.1-125 %		"	"	"	"	

ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.24	0.24	0.024	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.60	0.60	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.60	0.60	0.086	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	0.60	0.055	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.24	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.24	0.24	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.24	0.24	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.24	0.24	0.063	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.2	1.2	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Acetone	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Benzene	<0.24	0.24	0.018	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Bromobenzene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.24	0.24	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.24	0.24	0.023	mg/kg dry	1	"	"	"	"	
Bromoform	<0.24	0.24	0.043	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.24	0.24	0.017	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
Chloroform	<0.24	0.24	0.037	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.24	0.24	0.033	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.24	0.24	0.014	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.24	0.24	0.030	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.24	0.24	0.045	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.24	0.24	0.029	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.60	0.60	0.095	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.24	0.24	0.036	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.48	0.48	0.058	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.24	0.24	0.052	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.60	0.60	0.072	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.60	0.60	0.058	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.24	0.24	0.012	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.24	0.24	0.020	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.24	0.24	0.013	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.24	0.24	0.027	mg/kg dry	1	"	"	"	"	
Styrene	<0.24	0.24	0.019	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.24	0.24	0.031	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.24	0.24	0.046	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.24	0.24	0.0082	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.24	0.24	0.024	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.24	0.24	0.022	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (2'-4') (1605064-13) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
Trichlorofluoromethane	<0.24	0.24	0.035	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Vinyl chloride	<0.24	0.24	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6		80-124	%		"	"	"	"	
Surrogate: Dibromofluoromethane	99.0		77.1-123	%		"	"	"	"	
Surrogate: Toluene-d8	102		78.1-125	%		"	"	"	"	
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.56	0.56	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.56	0.56	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.56	0.56	0.052	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.015	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-7 (6'-8') (1605064-14) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.035	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.22	0.22	0.042	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.56	0.56	0.089	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.45	0.45	0.054	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.56	0.56	0.067	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.56	0.56	0.054	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.025	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.043	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0076	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	102			78.1-125 %		"	"	"	"	

ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
1,1,1,2-Tetrachloroethane	<0.22	0.22	0.022	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.56	0.56	0.11	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.56	0.56	0.079	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.56	0.56	0.051	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.22	0.22	0.014	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.22	0.22	0.010	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.22	0.22	0.058	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.1	1.1	0.10	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Acetone	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Benzene	<0.22	0.22	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.22	0.22	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.22	0.22	0.021	mg/kg dry	1	"	"	"	"	
Bromoform	<0.22	0.22	0.040	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.22	0.22	0.016	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
Chloroform	<0.22	0.22	0.034	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.22	0.22	0.030	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.22	0.22	0.013	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (0'-2') (1605064-15) Soil Sampled: 11/16/16 16:30 Received: 11/17/16 17:05										
cis-1,3-Dichloropropene	<0.22	0.22	0.028	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Dibromochloromethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.22	0.22	0.028	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.22	0.22	0.041	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.22	0.22	0.027	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.56	0.56	0.088	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.22	0.22	0.033	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.44	0.44	0.053	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.22	0.22	0.048	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.56	0.56	0.067	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.56	0.56	0.053	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.22	0.22	0.011	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.22	0.22	0.019	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.22	0.22	0.012	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.22	0.22	0.024	mg/kg dry	1	"	"	"	"	
Styrene	<0.22	0.22	0.018	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.22	0.22	0.029	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.22	0.22	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.22	0.22	0.0076	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.22	0.22	0.022	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.22	0.22	0.020	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.22	0.22	0.032	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.22	0.22	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8		80-124	%		"	"	"	"	
Surrogate: Dibromofluoromethane	101		77.1-123	%		"	"	"	"	
Surrogate: Toluene-d8	102		78.1-125	%		"	"	"	"	

ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05

1,1,1,2-Tetrachloroethane	<0.25	0.25	0.025	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
1,1-Dichloroethene	<0.25	0.25	0.016	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1-Dichloropropene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.63	0.63	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.63	0.63	0.089	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.63	0.63	0.058	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.25	0.25	0.016	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.25	0.25	0.065	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.3	1.3	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Acetone	<1.3	1.3	0.15	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Benzene	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.25	0.25	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.25	0.25	0.024	mg/kg dry	1	"	"	"	"	
Bromoform	<0.25	0.25	0.045	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.25	0.25	0.018	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
Chloroform	<0.25	0.25	0.039	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.25	0.25	0.034	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.25	0.25	0.015	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.25	0.25	0.031	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.25	0.25	0.047	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.25	0.25	0.030	mg/kg dry	1	"	"	"	"	

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-8 (8'-10') (1605064-16) Soil Sampled: 11/16/16 16:40 Received: 11/17/16 17:05										
Ethylbenzene	<0.25	0.25	0.026	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Hexachlorobutadiene	<0.63	0.63	0.099	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.25	0.25	0.038	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.50	0.50	0.060	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.25	0.25	0.054	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.25	0.25	0.012	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.63	0.63	0.075	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.63	0.63	0.060	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.25	0.25	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.25	0.25	0.021	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.25	0.25	0.028	mg/kg dry	1	"	"	"	"	
Styrene	<0.25	0.25	0.020	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.25	0.25	0.033	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.25	0.25	0.048	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Toluene	<0.25	0.25	0.0086	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.25	0.25	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.25	0.25	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	102			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	98.6			78.1-125 %		"	"	"	"	

ATP-Dup-Soil (1605064-17) Soil Sampled: 11/16/16 00:00 Received: 11/17/16 17:05

W-03

1,1,1,2-Tetrachloroethane	<0.33	0.33	0.033	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,1,1-Trichloroethane	<0.33	0.33	0.038	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.33	0.33	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.33	0.33	0.023	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.33	0.33	0.016	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.33	0.33	0.021	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.33	0.33	0.025	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.82	0.82	0.16	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.33	0.33	0.049	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.82	0.82	0.12	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.33	0.33	0.030	mg/kg dry	1	"	"	"	"	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17) Soil										W-03
Sampled: 11/16/16 00:00										
Received: 11/17/16 17:05										
1,2-Dibromo-3-chloropropane	<0.82	0.82	0.076	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
1,2-Dibromoethane (EDB)	<0.33	0.33	0.040	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.33	0.33	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.33	0.33	0.036	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.33	0.33	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.33	0.33	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.33	0.33	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.33	0.33	0.026	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.33	0.33	0.086	mg/kg dry	1	"	"	"	"	
2-Butanone	<1.6	1.6	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.33	0.33	0.036	mg/kg dry	1	"	"	"	"	
Acetone	<1.6	1.6	0.20	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
Benzene	<0.33	0.33	0.025	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.33	0.33	0.038	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.33	0.33	0.031	mg/kg dry	1	"	"	"	"	
Bromoform	<0.33	0.33	0.059	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.33	0.33	0.049	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.33	0.33	0.023	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.33	0.33	0.049	mg/kg dry	1	"	"	"	"	
Chloroform	<0.33	0.33	0.051	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.33	0.33	0.045	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.33	0.33	0.020	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.33	0.33	0.041	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.33	0.33	0.061	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.33	0.33	0.016	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.33	0.33	0.040	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.33	0.33	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.82	0.82	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.33	0.33	0.049	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.66	0.66	0.079	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.33	0.33	0.071	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.33	0.33	0.016	mg/kg dry	1	"	"	"	"	



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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-Dup-Soil (1605064-17) Soil										W-03
Sampled: 11/16/16 00:00										
Received: 11/17/16 17:05										
Methylene chloride	<0.82	0.82	0.099	mg/kg dry	1	B6K2922	11/29/16	11/29/16	EPA 8260B	
Naphthalene	<0.82	0.82	0.079	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.33	0.33	0.026	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.33	0.33	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.33	0.33	0.028	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.33	0.33	0.018	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.33	0.33	0.036	mg/kg dry	1	"	"	"	"	
Styrene	<0.33	0.33	0.026	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.33	0.33	0.043	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.33	0.33	0.063	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<1.6	1.6	0.18	mg/kg dry	1	"	"	"	"	
Toluene	<0.33	0.33	0.011	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.33	0.33	0.030	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.33	0.33	0.030	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.33	0.33	0.048	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.33	0.33	0.035	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1			80-124 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.2			77.1-123 %		"	"	"	"	
Surrogate: Toluene-d8	99.9			78.1-125 %		"	"	"	"	



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

WET CHEMISTRY
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ATP-3 (6'-8') (1605064-05) Soil Sampled: 11/16/16 11:55 Received: 11/17/16 17:05										
pH	8.5			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5
ATP-3 (10'-12') (1605064-06) Soil Sampled: 11/16/16 12:15 Received: 11/17/16 17:05										
pH	9.3			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5
ATP-4 (4'-6') (1605064-07) Soil Sampled: 11/16/16 14:10 Received: 11/17/16 17:05										
pH	8.2			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5
ATP-4 (12'-14') (1605064-08) Soil Sampled: 11/16/16 14:20 Received: 11/17/16 17:05										
pH	8.1			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5
ATP-5 (10'-12') (1605064-09) Soil Sampled: 11/16/16 15:30 Received: 11/17/16 17:05										
pH	9.1			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5
ATP-5 (12'-14') (1605064-10) Soil Sampled: 11/16/16 15:35 Received: 11/17/16 17:05										
pH	8.8			Std. Units	1	B6K2824	11/28/16	11/28/16	9045D	T5



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DRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2210 - Sonication (Wisc DRO)											
Blank (B6K2210-BLK1)											
						Prepared: 11/22/16 Analyzed: 11/23/16					
Diesel Range Organics	< 8.0	8.0	1.7	mg/kg wet							
Surrogate: <i>Triacontane (C-30)</i>	15.9			mg/kg wet	16.0		99.6	70-130			
LCS (B6K2210-BS1)											
						Prepared: 11/22/16 Analyzed: 11/23/16					
Diesel Range Organics	73.3	8.0	1.7	mg/kg wet	64.0	<8.0	114	70-120			
Surrogate: <i>Triacontane (C-30)</i>	16.3			mg/kg wet	16.0		102	70-130			
LCS Dup (B6K2210-BSD1)											
						Prepared: 11/22/16 Analyzed: 11/24/16					
Diesel Range Organics	72.3	8.0	1.7	mg/kg wet	64.0	<8.0	113	70-120	1.33	20	
Surrogate: <i>Triacontane (C-30)</i>	16.3			mg/kg wet	16.0		102	70-130			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

WI(95) GRO/8015D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2813 - EPA 5035 Soil (Purge and Trap)											
Blank (B6K2813-BLK1) Prepared & Analyzed: 11/28/16											
Gasoline range organics	< 5.0	5.0	1.0	mg/kg wet							
LCS (B6K2813-BS1) Prepared & Analyzed: 11/28/16											
Gasoline range organics	965			ug/L	1000		96.5	80-120			
LCS Dup (B6K2813-BSD1) Prepared: 11/28/16 Analyzed: 11/29/16											
Gasoline range organics	973			ug/L	1000		97.3	80-120	0.827	20	
Duplicate (B6K2813-DUP1) Source: 1605126-03 Prepared & Analyzed: 11/28/16											
Gasoline range organics	1.81	5.3	1.1	mg/kg dry		<5.3			NA	20	
Surrogate: 4-Fluorochlorobenzene	19.6			ug/L	20.0		98.2	80-150			
Batch B6L0106 - EPA 5035 Soil (Purge and Trap)											
Blank (B6L0106-BLK1) Prepared & Analyzed: 12/01/16											
Gasoline range organics	< 5.0	5.0	1.0	mg/kg wet							
Surrogate: 4-Fluorochlorobenzene	22.2			ug/L	20.0		111	80-150			
LCS (B6L0106-BS1) Prepared & Analyzed: 12/01/16											
Gasoline range organics	1070			ug/L	1000		107	80-120			
Surrogate: 4-Fluorochlorobenzene	23.5			ug/L	20.0		118	80-150			
LCS Dup (B6L0106-BSD1) Prepared & Analyzed: 12/01/16											
Gasoline range organics	951			ug/L	1000		95.1	80-120	11.5	20	
Surrogate: 4-Fluorochlorobenzene	23.8			ug/L	20.0		119	80-150			
Duplicate (B6L0106-DUP1) Source: 1605064-13 Prepared & Analyzed: 12/01/16											
Gasoline range organics	2.79	6.0	1.2	mg/kg dry		<6.0			NA	20	
Surrogate: 4-Fluorochlorobenzene	23.1			ug/L	20.0		115	80-150			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2105 - EPA 3050B

Blank (B6K2105-BLK1)

Prepared: 11/21/16 Analyzed: 11/22/16

Arsenic	< 1.0	1.0	0.29	mg/kg wet							
Barium	< 1.0	1.0	0.10	mg/kg wet							
Cadmium	< 0.050	0.050	0.010	mg/kg wet							
Chromium	< 0.50	0.50	0.020	mg/kg wet							
Lead	< 0.75	0.75	0.18	mg/kg wet							
Mercury	< 0.50	0.50	0.12	mg/kg wet							
Selenium	< 2.5	2.5	0.66	mg/kg wet							
Silver	< 0.50	0.50	0.15	mg/kg wet							

LCS (B6K2105-BS1)

Prepared: 11/21/16 Analyzed: 11/22/16

Arsenic	39.6	1.0	0.29	mg/kg wet	39.9	<1.0	99.4	80-120			
Barium	40.1	1.0	0.10	mg/kg wet	39.9	<1.0	101	80-120			
Cadmium	40.2	0.050	0.010	mg/kg wet	39.9	<0.050	101	80-120			
Chromium	41.0	0.50	0.020	mg/kg wet	39.9	<0.50	103	80-120			
Lead	39.9	0.75	0.18	mg/kg wet	39.9	<0.75	100	80-120			
Mercury	12.2	0.50	0.12	mg/kg wet	12.5	<0.50	98.0	80-120			
Selenium	41.2	2.5	0.66	mg/kg wet	39.9	<2.5	103	80-120			
Silver	3.94	0.50	0.15	mg/kg wet	3.99	<0.50	98.6	80-120			

LCS Dup (B6K2105-BSD1)

Prepared: 11/21/16 Analyzed: 11/22/16

Arsenic	39.8	1.0	0.29	mg/kg wet	39.9	<1.0	99.7	80-120	0.378	20	
Barium	40.0	1.0	0.10	mg/kg wet	39.9	<1.0	100	80-120	0.125	20	
Cadmium	40.1	0.050	0.010	mg/kg wet	39.9	<0.050	101	80-120	0.249	20	
Chromium	40.8	0.50	0.020	mg/kg wet	39.9	<0.50	102	80-120	0.367	20	
Lead	39.8	0.75	0.18	mg/kg wet	39.9	<0.75	99.6	80-120	0.377	20	
Mercury	12.2	0.50	0.12	mg/kg wet	12.5	<0.50	97.6	80-120	0.409	20	
Selenium	40.8	2.5	0.66	mg/kg wet	39.9	<2.5	102	80-120	1.10	20	
Silver	3.92	0.50	0.15	mg/kg wet	3.99	<0.50	98.4	80-120	0.254	20	

Matrix Spike (B6K2105-MS1)

Source: 1605064-01

Prepared: 11/21/16 Analyzed: 11/22/16

Arsenic	46.9	1.1	0.32	mg/kg dry	43.4	2.82	102	75-125			
Barium	84.3	1.1	0.11	mg/kg dry	43.4	45.6	89.2	75-125			
Cadmium	44.3	0.056	0.011	mg/kg dry	43.4	0.252	102	75-125			
Chromium	55.5	0.56	0.022	mg/kg dry	43.4	12.3	99.5	75-125			
Lead	71.2	0.83	0.20	mg/kg dry	43.4	33.8	86.3	75-125			
Mercury	13.2	0.56	0.13	mg/kg dry	13.6	<0.56	95.9	75-125			
Selenium	44.7	2.8	0.73	mg/kg dry	43.4	<2.8	103	75-125			
Silver	4.48	0.56	0.17	mg/kg dry	4.34	<0.56	103	75-125			

Matrix Spike Dup (B6K2105-MSD1)

Source: 1605064-01

Prepared: 11/21/16 Analyzed: 11/22/16

Arsenic	47.5	1.1	0.32	mg/kg dry	43.9	2.82	102	75-125	1.31	20	
Barium	97.9	1.1	0.11	mg/kg dry	43.9	45.6	119	75-125	15.0	20	



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2105 - EPA 3050B											
Matrix Spike Dup (B6K2105-MSD1)											
	Source: 1605064-01				Prepared: 11/21/16		Analyzed: 11/22/16				
Cadmium	44.5	0.056	0.011	mg/kg dry	43.9	0.252	101	75-125	0.452	20	
Chromium	58.9	0.56	0.022	mg/kg dry	43.9	12.3	106	75-125	5.97	20	
Lead	83.6	0.83	0.20	mg/kg dry	43.9	33.8	114	75-125	16.0	20	
Mercury	13.1	0.56	0.13	mg/kg dry	13.8	<0.56	94.4	75-125	0.469	20	
Selenium	44.2	2.8	0.73	mg/kg dry	43.9	<2.8	101	75-125	1.15	20	
Silver	4.49	0.56	0.17	mg/kg dry	4.39	<0.56	102	75-125	0.216	20	



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PAH 8270D (EXTENDED LIST) - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2902 - EPA 3545 ASE Extraction

Blank (B6K2902-BLK1)

Prepared: 11/29/16 Analyzed: 11/30/16

1,6-Dinitropyrene	< 0.55	0.55	0.045	mg/kg wet							
1,8-Dinitropyrene	< 0.28	0.28	0.024	mg/kg wet							
1-Nitropyrene	< 0.11	0.11	0.011	mg/kg wet							
2-Methylnaphthalene	< 0.11	0.11	0.031	mg/kg wet							
2-Nitrofluorene	< 0.11	0.11	0.016	mg/kg wet							
3-Methylcholanthrene	< 0.11	0.11	0.010	mg/kg wet							
4-Nitropyrene	< 0.13	0.13	0.016	mg/kg wet							
5-Methylchrysene	< 0.11	0.11	0.012	mg/kg wet							
5-Nitroacenaphthene	< 0.11	0.11	0.014	mg/kg wet							
6-Nitrochrysene	< 0.22	0.22	0.013	mg/kg wet							
7,12-Dimethylbenz (a) anthracene	< 0.11	0.11	0.015	mg/kg wet							
7H-Dibenzo(c,g)carbazole	< 0.055	0.055	0.015	mg/kg wet							
Acenaphthene	< 0.11	0.11	0.028	mg/kg wet							
Acenaphthylene	< 0.11	0.11	0.023	mg/kg wet							
Anthracene	< 0.11	0.11	0.016	mg/kg wet							
Benzo(a)anthracene	< 0.11	0.11	0.016	mg/kg wet							
Benzo(a)pyrene	< 0.11	0.11	0.0087	mg/kg wet							
Benzo(b&j)fluoranthene	< 0.22	0.22	0.020	mg/kg wet							
Benzo(e)pyrene	< 0.11	0.11	0.013	mg/kg wet							
Benzo(g,h,i)perylene	< 0.11	0.11	0.013	mg/kg wet							
Benzo(k)fluoranthene	< 0.11	0.11	0.019	mg/kg wet							
Carbazole	< 0.11	0.11	0.014	mg/kg wet							
Chrysene	< 0.11	0.11	0.013	mg/kg wet							
Dibenz [a,h] acridine	< 0.11	0.11	0.0046	mg/kg wet							
Dibenz(a,h)anthracene	< 0.11	0.11	0.011	mg/kg wet							
Dibenz(a,j)acridine	< 0.11	0.11	0.0091	mg/kg wet							
Dibenzo(a,e)pyrene	< 0.11	0.11	0.010	mg/kg wet							
Dibenzo(a,h)pyrene	< 0.11	0.11	0.015	mg/kg wet							
Dibenzo(a,i)pyrene	< 0.11	0.11	0.012	mg/kg wet							
Dibenzo(a,l)pyrene	< 0.11	0.11	0.017	mg/kg wet							
Fluoranthene	< 0.11	0.11	0.013	mg/kg wet							
Fluorene	< 0.11	0.11	0.023	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.11	0.11	0.013	mg/kg wet							
Naphthalene	< 0.11	0.11	0.032	mg/kg wet							
Perylene	< 0.11	0.11	0.013	mg/kg wet							
Phenanthrene	< 0.11	0.11	0.015	mg/kg wet							
Pyrene	< 0.11	0.11	0.016	mg/kg wet							
Quinoline	< 0.11	0.11	0.030	mg/kg wet							
Surrogate: 2-Fluorobiphenyl	2.47			mg/kg wet	3.33		74.2	30.7-107			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PAH 8270D (EXTENDED LIST) - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2902 - EPA 3545 ASE Extraction

Blank (B6K2902-BLK1)

Prepared: 11/29/16 Analyzed: 11/30/16

Surrogate: Nitrobenzene-d5	2.42			mg/kg wet	3.33		72.7	30-113			
Surrogate: Terphenyl-d14	2.78			mg/kg wet	3.33		83.5	30-139			

LCS (B6K2902-BS1)

Prepared: 11/29/16 Analyzed: 11/30/16

5-Methylchrysene	1.28	0.11	0.012	mg/kg wet	1.67	<0.11	76.7	50.7-117			
7,12-Dimethylbenz (a) anthracene	1.98	0.11	0.015	mg/kg wet	1.67	<0.11	119	38.6-121			
Acenaphthene	1.28	0.11	0.028	mg/kg wet	1.67	<0.11	76.5	34.4-107			
Acenaphthylene	1.14	0.11	0.023	mg/kg wet	1.67	<0.11	68.4	33.3-104			
Anthracene	1.23	0.11	0.016	mg/kg wet	1.67	<0.11	74.1	54.8-105			
Benzo(a)anthracene	1.29	0.11	0.016	mg/kg wet	1.67	<0.11	77.2	56.6-108			
Benzo(a)pyrene	1.31	0.11	0.0087	mg/kg wet	1.67	<0.11	78.3	38-114			
Benzo(g,h,i)perylene	1.21	0.11	0.013	mg/kg wet	1.67	<0.11	72.9	50.9-101			
Chrysene	1.24	0.11	0.013	mg/kg wet	1.67	<0.11	74.4	56.5-110			
Dibenzo(a,l)pyrene	1.28	0.11	0.017	mg/kg wet	1.67	<0.11	77.1	49.4-106			
Fluoranthene	1.28	0.11	0.013	mg/kg wet	1.67	<0.11	76.9	54.9-108			
Fluorene	1.33	0.11	0.023	mg/kg wet	1.67	<0.11	79.7	40.2-106			
Indeno (1,2,3-cd) pyrene	1.21	0.11	0.013	mg/kg wet	1.67	<0.11	72.6	36.2-112			
Naphthalene	1.09	0.11	0.032	mg/kg wet	1.67	<0.11	65.5	30-114			
Phenanthrene	1.21	0.11	0.015	mg/kg wet	1.67	<0.11	72.8	51.9-104			
Pyrene	1.26	0.11	0.016	mg/kg wet	1.67	<0.11	75.7	58.3-108			
Surrogate: 2-Fluorobiphenyl	2.15			mg/kg wet	3.33		64.6	30.7-107			
Surrogate: Nitrobenzene-d5	2.09			mg/kg wet	3.33		62.6	30-113			
Surrogate: Terphenyl-d14	2.49			mg/kg wet	3.33		74.6	30-139			

Matrix Spike (B6K2902-MS1)

Source: 1605064-05

Prepared: 11/29/16 Analyzed: 11/30/16

5-Methylchrysene	1.35	0.12	0.013	mg/kg dry	1.83	<0.12	67.5	43.1-112			
7,12-Dimethylbenz (a) anthracene	2.01	0.12	0.016	mg/kg dry	1.83	<0.12	110	42.6-99.9			M1
Acenaphthene	1.50	0.12	0.031	mg/kg dry	1.83	<0.12	77.7	48.3-91			
Acenaphthylene	1.35	0.12	0.025	mg/kg dry	1.83	<0.12	69.6	41.8-94.2			
Anthracene	1.49	0.12	0.018	mg/kg dry	1.83	0.241	67.9	54-98.9			
Benzo(a)anthracene	1.71	0.12	0.018	mg/kg dry	1.83	0.677	56.3	50.1-115			
Benzo(a)pyrene	1.71	0.12	0.0096	mg/kg dry	1.83	0.640	58.5	35.5-97.3			
Benzo(g,h,i)perylene	1.51	0.12	0.014	mg/kg dry	1.83	0.384	61.4	33.2-96.4			
Chrysene	1.73	0.12	0.014	mg/kg dry	1.83	0.714	55.2	52.1-113			
Dibenzo(a,l)pyrene	1.43	0.12	0.019	mg/kg dry	1.83	0.151	69.6	30-109			
Fluoranthene	2.06	0.12	0.014	mg/kg dry	1.83	1.30	41.4	39.3-123			
Fluorene	1.55	0.12	0.025	mg/kg dry	1.83	<0.12	79.8	51.1-95.7			
Indeno (1,2,3-cd) pyrene	1.53	0.12	0.014	mg/kg dry	1.83	0.386	62.1	35.6-90.4			
Naphthalene	1.26	0.12	0.035	mg/kg dry	1.83	<0.12	66.8	40.4-96.2			
Phenanthrene	1.76	0.12	0.016	mg/kg dry	1.83	0.895	47.3	35.7-124			
Pyrene	2.02	0.12	0.018	mg/kg dry	1.83	1.51	27.9	32.7-140			M2

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PAH 8270D (EXTENDED LIST) - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2902 - EPA 3545 ASE Extraction

Matrix Spike (B6K2902-MS1)

Source: 1605064-05

Prepared: 11/29/16 Analyzed: 11/30/16

Surrogate: 2-Fluorobiphenyl	2.40			mg/kg dry	3.67		65.5	30.7-107			
Surrogate: Nitrobenzene-d5	2.42			mg/kg dry	3.67		66.0	30-113			
Surrogate: Terphenyl-d14	2.63			mg/kg dry	3.67		71.8	30-139			

Matrix Spike Dup (B6K2902-MSD1)

Source: 1605064-05

Prepared: 11/29/16 Analyzed: 11/30/16

5-Methylchrysene	1.39	0.12	0.013	mg/kg dry	1.84	<0.12	69.7	43.1-112	3.12	40	
7,12-Dimethylbenz (a) anthracene	2.09	0.12	0.016	mg/kg dry	1.84	<0.12	114	42.6-99.9	4.08	40	M1
Acenaphthene	1.54	0.12	0.031	mg/kg dry	1.84	<0.12	79.8	48.3-91	2.75	39	
Acenaphthylene	1.38	0.12	0.025	mg/kg dry	1.84	<0.12	71.2	41.8-94.2	2.32	38.2	
Anthracene	1.56	0.12	0.018	mg/kg dry	1.84	0.241	72.0	54-98.9	5.04	40	
Benzo(a)anthracene	1.83	0.12	0.018	mg/kg dry	1.84	0.677	62.8	50.1-115	6.90	40	
Benzo(a)pyrene	1.87	0.12	0.0096	mg/kg dry	1.84	0.640	66.9	35.5-97.3	8.71	40	
Benzo(g,h,i)perylene	1.58	0.12	0.014	mg/kg dry	1.84	0.384	64.8	33.2-96.4	4.30	40	
Chrysene	1.90	0.12	0.014	mg/kg dry	1.84	0.714	64.4	52.1-113	9.40	40	
Dibenzo(a,l)pyrene	1.52	0.12	0.019	mg/kg dry	1.84	0.151	74.3	30-109	5.94	40	
Fluoranthene	2.27	0.12	0.014	mg/kg dry	1.84	1.30	52.5	39.3-123	9.44	40	
Fluorene	1.59	0.12	0.025	mg/kg dry	1.84	<0.12	81.8	51.1-95.7	2.54	38	
Indeno (1,2,3-cd) pyrene	1.62	0.12	0.014	mg/kg dry	1.84	0.386	67.2	35.6-90.4	6.04	40	
Naphthalene	1.31	0.12	0.035	mg/kg dry	1.84	<0.12	68.9	40.4-96.2	3.21	30.8	
Phenanthrene	1.95	0.12	0.016	mg/kg dry	1.84	0.895	57.6	35.7-124	10.3	40	
Pyrene	2.30	0.12	0.018	mg/kg dry	1.84	1.51	42.8	32.7-140	12.7	40	
Surrogate: 2-Fluorobiphenyl	2.38			mg/kg dry	3.68		64.8	30.7-107			
Surrogate: Nitrobenzene-d5	2.47			mg/kg dry	3.68		67.2	30-113			
Surrogate: Terphenyl-d14	2.56			mg/kg dry	3.68		69.8	30-139			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

PCB 8082A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2802 - EPA 3545 ASE Extraction											
Blank (B6K2802-BLK1)						Prepared & Analyzed: 11/28/16					
Aroclor 1016	< 0.20	0.20	0.023	mg/kg wet							
Aroclor 1221	< 0.20	0.20	0.060	mg/kg wet							
Aroclor 1232	< 0.20	0.20	0.021	mg/kg wet							
Aroclor 1242	< 0.20	0.20	0.018	mg/kg wet							
Aroclor 1248	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1254	< 0.20	0.20	0.012	mg/kg wet							
Aroclor 1260	< 0.20	0.20	0.013	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0647			mg/kg wet	0.0667		97.0	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0620			mg/kg wet	0.0667		93.0	60.9-138			
LCS (B6K2802-BS1)						Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.323	0.20	0.023	mg/kg wet	0.333	<0.20	96.9	70-130			
Aroclor 1260	0.321	0.20	0.013	mg/kg wet	0.333	<0.20	96.3	70-130			
Surrogate: Decachlorobiphenyl	0.0603			mg/kg wet	0.0667		90.5	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0627			mg/kg wet	0.0667		94.0	60.9-138			
Matrix Spike (B6K2802-MS1)						Source: 1605055-04 Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.340	0.21	0.024	mg/kg dry	0.348	<0.21	97.6	70-130			
Aroclor 1260	0.337	0.21	0.014	mg/kg dry	0.348	<0.21	96.6	70-130			
Surrogate: Decachlorobiphenyl	0.0686			mg/kg dry	0.0697		98.5	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0651			mg/kg dry	0.0697		93.5	60.9-138			
Matrix Spike Dup (B6K2802-MSD1)						Source: 1605055-04 Prepared & Analyzed: 11/28/16					
Aroclor 1016	0.325	0.21	0.024	mg/kg dry	0.347	<0.21	93.8	70-130	4.37	20	
Aroclor 1260	0.327	0.21	0.014	mg/kg dry	0.347	<0.21	94.2	70-130	2.92	17.2	
Surrogate: Decachlorobiphenyl	0.0659			mg/kg dry	0.0694		95.0	65.3-143			
Surrogate: Tetrachloro-meta-xylene	0.0628			mg/kg dry	0.0694		90.5	60.9-138			



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 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2917 - General Preparation											
Duplicate (B6K2917-DUP1)		Source: 1605064-07			Prepared: 11/29/16		Analyzed: 11/30/16				
% Solids	89.0			%		88.0			1.13	20	
Duplicate (B6K2917-DUP2)											
Duplicate (B6K2917-DUP2)		Source: 1605126-10			Prepared: 11/29/16		Analyzed: 11/30/16				
% Solids	87.0			%		85.0			2.33	20	



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Blank (B6K2201-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

1,2,4-Trichlorobenzene	< 0.33	0.33	0.075	mg/kg wet							
1,2-Dichlorobenzene	< 0.33	0.33	0.067	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.33	0.33	0.058	mg/kg wet							
1,3-Dichlorobenzene	< 0.33	0.33	0.069	mg/kg wet							
1,4-Dichlorobenzene	< 0.33	0.33	0.068	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
2,4,5-Trichlorophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4,6-Trichlorophenol	< 0.67	0.67	0.16	mg/kg wet							
2,4-Dichlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2,4-Dimethylphenol	< 0.67	0.67	0.13	mg/kg wet							
2,4-Dinitrophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4-Dinitrotoluene	< 0.33	0.33	0.068	mg/kg wet							
2,6-Dichlorophenol	< 0.67	0.67	0.13	mg/kg wet							
2,6-Dinitrotoluene	< 0.33	0.33	0.077	mg/kg wet							
2-Chloronaphthalene	< 0.33	0.33	0.068	mg/kg wet							
2-Chlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.080	mg/kg wet							
2-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
2-Nitroaniline	< 0.33	0.33	0.069	mg/kg wet							
2-Nitrophenol	< 0.67	0.67	0.18	mg/kg wet							
3&4-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
3,3'-Dichlorobenzidine	< 1.6	1.6	0.45	mg/kg wet							
3-Nitroaniline	< 0.33	0.33	0.072	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.67	0.67	0.11	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Chloro-3-methylphenol	< 0.67	0.67	0.14	mg/kg wet							
4-Chloroaniline	< 0.67	0.67	0.067	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Nitroaniline	< 0.33	0.33	0.083	mg/kg wet							
4-Nitrophenol	< 0.67	0.67	0.17	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.063	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.071	mg/kg wet							
Aniline	< 0.67	0.67	0.066	mg/kg wet							
Anthracene	< 0.33	0.33	0.069	mg/kg wet							
Benzidine	< 2.5	2.5	0.44	mg/kg wet							
Benzo(a)anthracene	< 0.33	0.33	0.065	mg/kg wet							
Benzo(a)pyrene	< 0.33	0.33	0.070	mg/kg wet							
Benzo(b)fluoranthene	< 0.33	0.33	0.059	mg/kg wet							
Benzo(g,h,i)perylene	< 0.33	0.33	0.071	mg/kg wet							



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Blank (B6K2201-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

Benzo(k)fluoranthene	< 0.33	0.33	0.070	mg/kg wet							
Benzoic acid	< 0.33	0.33	0.064	mg/kg wet							
Benzyl alcohol	< 0.67	0.67	0.15	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.33	0.33	0.077	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.33	0.33	0.069	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.33	0.33	0.078	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.33	0.33	0.081	mg/kg wet							
Butyl benzyl phthalate	< 0.33	0.33	0.083	mg/kg wet							
Carbazole	< 0.33	0.33	0.076	mg/kg wet							
Chrysene	< 0.33	0.33	0.064	mg/kg wet							
Dibenz(a,h)anthracene	< 0.33	0.33	0.082	mg/kg wet							
Dibenzofuran	< 0.33	0.33	0.068	mg/kg wet							
Diethyl phthalate	< 0.33	0.33	0.063	mg/kg wet							
Dimethyl phthalate	< 0.33	0.33	0.069	mg/kg wet							
Di-n-butyl phthalate	< 0.33	0.33	0.079	mg/kg wet							
Di-n-octyl phthalate	< 0.33	0.33	0.10	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.068	mg/kg wet							
Fluorene	< 0.33	0.33	0.065	mg/kg wet							
Hexachlorobenzene	< 0.33	0.33	0.062	mg/kg wet							
Hexachlorobutadiene	< 0.33	0.33	0.077	mg/kg wet							
Hexachlorocyclopentadiene	< 0.33	0.33	0.069	mg/kg wet							
Hexachloroethane	< 0.33	0.33	0.082	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.072	mg/kg wet							
Isophorone	< 0.33	0.33	0.076	mg/kg wet							
Naphthalene	< 0.33	0.33	0.071	mg/kg wet							
Nitrobenzene	< 0.33	0.33	0.080	mg/kg wet							
N-Nitrosodimethylamine	< 0.33	0.33	0.070	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.33	0.33	0.073	mg/kg wet							
N-Nitrosodiphenylamine	< 0.33	0.33	0.067	mg/kg wet							
Pentachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.066	mg/kg wet							
Phenol	< 0.67	0.67	0.14	mg/kg wet							
Pyrene	< 0.33	0.33	0.059	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	5.74			mg/kg wet	6.67		86.2	53-107			
Surrogate: 2-Fluorobiphenyl	4.59			mg/kg wet	6.67		68.9	53.9-97.9			
Surrogate: 2-Fluorophenol	3.96			mg/kg wet	6.67		59.4	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.58			mg/kg wet	6.67		68.7	48.9-100			
Surrogate: Phenol-d6	4.72			mg/kg wet	6.67		70.8	50.4-99.6			
Surrogate: Terphenyl-d14	4.12			mg/kg wet	6.67		61.7	51-99.6			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

LCS (B6K2201-BS1)

Prepared: 11/22/16 Analyzed: 11/28/16

1,2,4-Trichlorobenzene	2.32	0.33	0.075	mg/kg wet	3.33	<0.33	69.7	50-100			
1,4-Dichlorobenzene	2.20	0.33	0.068	mg/kg wet	3.33	<0.33	66.0	40-80			
2,4-Dinitrotoluene	2.87	0.33	0.068	mg/kg wet	3.33	<0.33	86.0	50-90			
2-Chlorophenol	2.26	0.67	0.15	mg/kg wet	3.33	<0.67	67.7	50-85			
4-Chloro-3-methylphenol	2.61	0.67	0.14	mg/kg wet	3.33	<0.67	78.2	55-90			
4-Nitrophenol	2.84	0.67	0.17	mg/kg wet	3.33	<0.67	85.2	45-100			
Anthracene	2.50	0.33	0.069	mg/kg wet	3.33	<0.33	75.1	55-95			
Benzo(a)anthracene	2.60	0.33	0.065	mg/kg wet	3.33	<0.33	77.9	55-100			
Benzo(a)pyrene	2.54	0.33	0.070	mg/kg wet	3.33	<0.33	76.2	55-100			
Chrysene	2.55	0.33	0.064	mg/kg wet	3.33	<0.33	76.4	55-100			
Fluoranthene	2.50	0.33	0.068	mg/kg wet	3.33	<0.33	74.9	55-95			
Fluorene	2.71	0.33	0.065	mg/kg wet	3.33	<0.33	81.2	55-95			
N-Nitrosodi-n-propylamine	2.50	0.33	0.073	mg/kg wet	3.33	<0.33	75.1	50-90			
Pentachlorophenol	2.08	0.67	0.19	mg/kg wet	3.33	<0.67	62.3	35-95			
Phenanthrene	2.50	0.33	0.066	mg/kg wet	3.33	<0.33	75.1	55-95			
Phenol	2.14	0.67	0.14	mg/kg wet	3.33	<0.67	64.1	50-85			
Surrogate: 2,4,6-Tribromophenol	4.41			mg/kg wet	6.67		66.1	53-107			
Surrogate: 2-Fluorobiphenyl	4.13			mg/kg wet	6.67		61.9	53.9-97.9			
Surrogate: 2-Fluorophenol	3.95			mg/kg wet	6.67		59.2	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.03			mg/kg wet	6.67		60.4	48.9-100			
Surrogate: Phenol-d6	4.24			mg/kg wet	6.67		63.7	50.4-99.6			
Surrogate: Terphenyl-d14	4.35			mg/kg wet	6.67		65.2	51-99.6			

Matrix Spike (B6K2201-MS1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

1,2,4-Trichlorobenzene	2.48	0.34	0.077	mg/kg dry	3.39	<0.34	73.2	35-100			
1,4-Dichlorobenzene	2.36	0.34	0.069	mg/kg dry	3.39	<0.34	69.4	30-85			
2,4-Dinitrotoluene	2.92	0.34	0.069	mg/kg dry	3.39	<0.34	85.9	45-95			
2-Chlorophenol	2.37	0.68	0.15	mg/kg dry	3.39	<0.68	69.8	35-100			
4-Chloro-3-methylphenol	2.54	0.68	0.14	mg/kg dry	3.39	<0.68	74.7	35-100			
4-Nitrophenol	3.16	0.68	0.17	mg/kg dry	3.39	<0.68	93.0	40-100			
Anthracene	2.64	0.34	0.070	mg/kg dry	3.39	<0.34	77.8	55-100			
Benzo(a)anthracene	2.66	0.34	0.066	mg/kg dry	3.39	<0.34	78.4	50-100			
Benzo(a)pyrene	2.69	0.34	0.071	mg/kg dry	3.39	<0.34	79.2	50-100			
Chrysene	2.70	0.34	0.065	mg/kg dry	3.39	<0.34	79.5	50-100			
Fluoranthene	2.58	0.34	0.069	mg/kg dry	3.39	<0.34	75.9	50-100			
Fluorene	2.84	0.34	0.066	mg/kg dry	3.39	<0.34	83.7	50-100			
N-Nitrosodi-n-propylamine	2.60	0.34	0.074	mg/kg dry	3.39	<0.34	76.7	35-100			
Pentachlorophenol	2.33	0.68	0.19	mg/kg dry	3.39	<0.68	68.7	30-100			
Phenanthrene	2.65	0.34	0.067	mg/kg dry	3.39	<0.34	78.1	55-100			
Phenol	2.25	0.68	0.14	mg/kg dry	3.39	<0.68	66.3	35-100			



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2201 - EPA 3545 ASE Extraction

Matrix Spike (B6K2201-MS1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

Surrogate: 2,4,6-Tribromophenol	4.81			mg/kg dry	6.79		70.8	53-107			
Surrogate: 2-Fluorobiphenyl	4.55			mg/kg dry	6.79		67.0	53.9-97.9			
Surrogate: 2-Fluorophenol	4.28			mg/kg dry	6.79		63.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.39			mg/kg dry	6.79		64.7	48.9-100			
Surrogate: Phenol-d6	4.57			mg/kg dry	6.79		67.3	50.4-99.6			
Surrogate: Terphenyl-d14	4.69			mg/kg dry	6.79		69.1	51-99.6			

Matrix Spike Dup (B6K2201-MSD1)

Source: 1604995-01

Prepared & Analyzed: 11/22/16

1,2,4-Trichlorobenzene	2.44	0.34	0.077	mg/kg dry	3.40	<0.34	71.9	35-100	1.71	20	
1,4-Dichlorobenzene	2.30	0.34	0.069	mg/kg dry	3.40	<0.34	67.8	30-85	2.18	20	
2,4-Dinitrotoluene	2.99	0.34	0.069	mg/kg dry	3.40	<0.34	88.0	45-95	2.52	20	
2-Chlorophenol	2.35	0.68	0.15	mg/kg dry	3.40	<0.68	69.1	35-100	0.910	20	
4-Chloro-3-methylphenol	2.58	0.68	0.14	mg/kg dry	3.40	<0.68	75.9	35-100	1.64	20	
4-Nitrophenol	3.23	0.68	0.17	mg/kg dry	3.40	<0.68	95.0	40-100	2.28	20	
Anthracene	2.69	0.34	0.070	mg/kg dry	3.40	<0.34	79.3	55-100	1.98	20	
Benzo(a)anthracene	2.72	0.34	0.066	mg/kg dry	3.40	<0.34	80.0	50-100	2.07	20	
Benzo(a)pyrene	2.69	0.34	0.071	mg/kg dry	3.40	<0.34	79.1	50-100	0.0416	20	
Chrysene	2.76	0.34	0.065	mg/kg dry	3.40	<0.34	81.3	50-100	2.36	20	
Fluoranthene	2.66	0.34	0.069	mg/kg dry	3.40	<0.34	78.2	50-100	3.08	20	
Fluorene	2.85	0.34	0.066	mg/kg dry	3.40	<0.34	83.8	50-100	0.199	20	
N-Nitrosodi-n-propylamine	2.58	0.34	0.074	mg/kg dry	3.40	<0.34	75.9	35-100	1.02	20	
Pentachlorophenol	2.52	0.68	0.19	mg/kg dry	3.40	<0.68	74.1	30-100	7.66	20	
Phenanthrene	2.71	0.34	0.067	mg/kg dry	3.40	<0.34	79.8	55-100	2.10	20	
Phenol	2.22	0.68	0.14	mg/kg dry	3.40	<0.68	65.5	35-100	1.20	20	
Surrogate: 2,4,6-Tribromophenol	4.84			mg/kg dry	6.79		71.3	53-107			
Surrogate: 2-Fluorobiphenyl	4.48			mg/kg dry	6.79		65.9	53.9-97.9			
Surrogate: 2-Fluorophenol	4.14			mg/kg dry	6.79		61.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.28			mg/kg dry	6.79		62.9	48.9-100			
Surrogate: Phenol-d6	4.46			mg/kg dry	6.79		65.6	50.4-99.6			
Surrogate: Terphenyl-d14	4.98			mg/kg dry	6.79		73.3	51-99.6			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2901 - EPA 3545 ASE Extraction

Blank (B6K2901-BLK1)

Prepared & Analyzed: 11/29/16

1,2,4-Trichlorobenzene	< 0.33	0.33	0.075	mg/kg wet							
1,2-Dichlorobenzene	< 0.33	0.33	0.067	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.33	0.33	0.058	mg/kg wet							
1,3-Dichlorobenzene	< 0.33	0.33	0.069	mg/kg wet							
1,4-Dichlorobenzene	< 0.33	0.33	0.068	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
2,4,5-Trichlorophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4,6-Trichlorophenol	< 0.67	0.67	0.16	mg/kg wet							
2,4-Dichlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2,4-Dimethylphenol	< 0.67	0.67	0.13	mg/kg wet							
2,4-Dinitrophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4-Dinitrotoluene	< 0.33	0.33	0.068	mg/kg wet							
2,6-Dichlorophenol	< 0.67	0.67	0.13	mg/kg wet							
2,6-Dinitrotoluene	< 0.33	0.33	0.077	mg/kg wet							
2-Chloronaphthalene	< 0.33	0.33	0.068	mg/kg wet							
2-Chlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.080	mg/kg wet							
2-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
2-Nitroaniline	< 0.33	0.33	0.069	mg/kg wet							
2-Nitrophenol	< 0.67	0.67	0.18	mg/kg wet							
3&4-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
3,3'-Dichlorobenzidine	< 1.6	1.6	0.45	mg/kg wet							
3-Nitroaniline	< 0.33	0.33	0.072	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.67	0.67	0.11	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Chloro-3-methylphenol	< 0.67	0.67	0.14	mg/kg wet							
4-Chloroaniline	< 0.67	0.67	0.067	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Nitroaniline	< 0.33	0.33	0.083	mg/kg wet							
4-Nitrophenol	< 0.67	0.67	0.17	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.063	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.071	mg/kg wet							
Aniline	< 0.67	0.67	0.066	mg/kg wet							
Anthracene	< 0.33	0.33	0.069	mg/kg wet							
Benzidine	< 2.5	2.5	0.44	mg/kg wet							
Benzo(a)anthracene	< 0.33	0.33	0.065	mg/kg wet							
Benzo(a)pyrene	< 0.33	0.33	0.070	mg/kg wet							
Benzo(b)fluoranthene	< 0.33	0.33	0.059	mg/kg wet							
Benzo(g,h,i)perylene	< 0.33	0.33	0.071	mg/kg wet							



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2901 - EPA 3545 ASE Extraction

Blank (B6K2901-BLK1)

Prepared & Analyzed: 11/29/16

Benzo(k)fluoranthene	< 0.33	0.33	0.070	mg/kg wet							
Benzoic acid	< 0.33	0.33	0.064	mg/kg wet							
Benzyl alcohol	< 0.67	0.67	0.15	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.33	0.33	0.077	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.33	0.33	0.069	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.33	0.33	0.078	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.33	0.33	0.081	mg/kg wet							
Butyl benzyl phthalate	< 0.33	0.33	0.083	mg/kg wet							
Carbazole	< 0.33	0.33	0.076	mg/kg wet							
Chrysene	< 0.33	0.33	0.064	mg/kg wet							
Dibenz(a,h)anthracene	< 0.33	0.33	0.082	mg/kg wet							
Dibenzofuran	< 0.33	0.33	0.068	mg/kg wet							
Diethyl phthalate	< 0.33	0.33	0.063	mg/kg wet							
Dimethyl phthalate	< 0.33	0.33	0.069	mg/kg wet							
Di-n-butyl phthalate	< 0.33	0.33	0.079	mg/kg wet							
Di-n-octyl phthalate	< 0.33	0.33	0.10	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.068	mg/kg wet							
Fluorene	< 0.33	0.33	0.065	mg/kg wet							
Hexachlorobenzene	< 0.33	0.33	0.062	mg/kg wet							
Hexachlorobutadiene	< 0.33	0.33	0.077	mg/kg wet							
Hexachlorocyclopentadiene	< 0.33	0.33	0.069	mg/kg wet							
Hexachloroethane	< 0.33	0.33	0.082	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.072	mg/kg wet							
Isophorone	< 0.33	0.33	0.076	mg/kg wet							
Naphthalene	< 0.33	0.33	0.071	mg/kg wet							
Nitrobenzene	< 0.33	0.33	0.080	mg/kg wet							
N-Nitrosodimethylamine	< 0.33	0.33	0.070	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.33	0.33	0.073	mg/kg wet							
N-Nitrosodiphenylamine	< 0.33	0.33	0.067	mg/kg wet							
Pentachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.066	mg/kg wet							
Phenol	< 0.67	0.67	0.14	mg/kg wet							
Pyrene	< 0.33	0.33	0.059	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	5.60			mg/kg wet	6.67		84.0	53-107			
Surrogate: 2-Fluorobiphenyl	4.23			mg/kg wet	6.67		63.4	53.9-97.9			
Surrogate: 2-Fluorophenol	3.66			mg/kg wet	6.67		54.9	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.11			mg/kg wet	6.67		61.7	48.9-100			
Surrogate: Phenol-d6	4.37			mg/kg wet	6.67		65.6	50.4-99.6			
Surrogate: Terphenyl-d14	4.08			mg/kg wet	6.67		61.2	51-99.6			

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2901 - EPA 3545 ASE Extraction

LCS (B6K2901-BS1)

Prepared & Analyzed: 11/29/16

1,2,4-Trichlorobenzene	2.39	0.33	0.075	mg/kg wet	3.33	<0.33	71.7	50-100			
1,4-Dichlorobenzene	2.23	0.33	0.068	mg/kg wet	3.33	<0.33	66.8	40-80			
2,4-Dinitrotoluene	2.93	0.33	0.068	mg/kg wet	3.33	<0.33	87.9	50-90			
2-Chlorophenol	2.29	0.67	0.15	mg/kg wet	3.33	<0.67	68.7	50-85			
4-Chloro-3-methylphenol	2.55	0.67	0.14	mg/kg wet	3.33	<0.67	76.6	55-90			
4-Nitrophenol	2.93	0.67	0.17	mg/kg wet	3.33	<0.67	88.0	45-100			
Anthracene	2.51	0.33	0.069	mg/kg wet	3.33	<0.33	75.3	55-95			
Benzo(a)anthracene	2.64	0.33	0.065	mg/kg wet	3.33	<0.33	79.3	55-100			
Benzo(a)pyrene	2.73	0.33	0.070	mg/kg wet	3.33	<0.33	81.8	55-100			
Chrysene	2.67	0.33	0.064	mg/kg wet	3.33	<0.33	80.0	55-100			
Fluoranthene	2.51	0.33	0.068	mg/kg wet	3.33	<0.33	75.3	55-95			
Fluorene	2.79	0.33	0.065	mg/kg wet	3.33	<0.33	83.6	55-95			
N-Nitrosodi-n-propylamine	2.49	0.33	0.073	mg/kg wet	3.33	<0.33	74.7	50-90			
Pentachlorophenol	2.17	0.67	0.19	mg/kg wet	3.33	<0.67	65.0	35-95			
Phenanthrene	2.52	0.33	0.066	mg/kg wet	3.33	<0.33	75.6	55-95			
Phenol	2.14	0.67	0.14	mg/kg wet	3.33	<0.67	64.1	50-85			
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.68			mg/kg wet	6.67		70.3	53-107			
<i>Surrogate: 2-Fluorobiphenyl</i>	4.36			mg/kg wet	6.67		65.3	53.9-97.9			
<i>Surrogate: 2-Fluorophenol</i>	4.14			mg/kg wet	6.67		62.0	42.5-94.9			
<i>Surrogate: Nitrobenzene-d5</i>	4.12			mg/kg wet	6.67		61.8	48.9-100			
<i>Surrogate: Phenol-d6</i>	4.36			mg/kg wet	6.67		65.4	50.4-99.6			
<i>Surrogate: Terphenyl-d14</i>	4.42			mg/kg wet	6.67		66.3	51-99.6			

Matrix Spike (B6K2901-MS1)

Source: 1605126-03

Prepared & Analyzed: 11/29/16

1,2,4-Trichlorobenzene	2.47	0.35	0.079	mg/kg dry	3.51	<0.35	70.3	35-100			
1,4-Dichlorobenzene	2.29	0.35	0.072	mg/kg dry	3.51	<0.35	65.2	30-85			
2,4-Dinitrotoluene	3.02	0.35	0.072	mg/kg dry	3.51	<0.35	86.2	45-95			
2-Chlorophenol	2.36	0.71	0.16	mg/kg dry	3.51	<0.71	67.3	35-100			
4-Chloro-3-methylphenol	2.63	0.71	0.15	mg/kg dry	3.51	<0.71	74.9	35-100			
4-Nitrophenol	3.04	0.71	0.18	mg/kg dry	3.51	<0.71	86.5	40-100			
Anthracene	2.64	0.35	0.073	mg/kg dry	3.51	<0.35	75.3	55-100			
Benzo(a)anthracene	2.77	0.35	0.068	mg/kg dry	3.51	<0.35	78.8	50-100			
Benzo(a)pyrene	2.85	0.35	0.074	mg/kg dry	3.51	<0.35	81.3	50-100			
Chrysene	2.84	0.35	0.067	mg/kg dry	3.51	<0.35	81.0	50-100			
Fluoranthene	2.62	0.35	0.072	mg/kg dry	3.51	<0.35	74.6	50-100			
Fluorene	2.86	0.35	0.068	mg/kg dry	3.51	<0.35	81.6	50-100			
N-Nitrosodi-n-propylamine	2.59	0.35	0.077	mg/kg dry	3.51	<0.35	73.8	35-100			
Pentachlorophenol	2.34	0.71	0.20	mg/kg dry	3.51	<0.71	66.7	30-100			
Phenanthrene	2.67	0.35	0.069	mg/kg dry	3.51	<0.35	76.1	55-100			
Phenol	2.21	0.71	0.15	mg/kg dry	3.51	<0.71	63.0	35-100			

Legend Technical Services, Inc.

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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2901 - EPA 3545 ASE Extraction

Matrix Spike (B6K2901-MS1)

Source: 1605126-03

Prepared & Analyzed: 11/29/16

Surrogate: 2,4,6-Tribromophenol	4.90			mg/kg dry	7.02		69.8	53-107			
Surrogate: 2-Fluorobiphenyl	4.52			mg/kg dry	7.02		64.4	53.9-97.9			
Surrogate: 2-Fluorophenol	4.36			mg/kg dry	7.02		62.2	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.35			mg/kg dry	7.02		62.0	48.9-100			
Surrogate: Phenol-d6	4.57			mg/kg dry	7.02		65.1	50.4-99.6			
Surrogate: Terphenyl-d14	4.89			mg/kg dry	7.02		69.7	51-99.6			

Matrix Spike Dup (B6K2901-MSD1)

Source: 1605126-03

Prepared & Analyzed: 11/29/16

1,2,4-Trichlorobenzene	2.48	0.35	0.079	mg/kg dry	3.50	<0.35	70.9	35-100	0.755	20	
1,4-Dichlorobenzene	2.32	0.35	0.072	mg/kg dry	3.50	<0.35	66.2	30-85	1.50	20	
2,4-Dinitrotoluene	3.06	0.35	0.072	mg/kg dry	3.50	<0.35	87.3	45-95	1.19	20	
2-Chlorophenol	2.38	0.71	0.16	mg/kg dry	3.50	<0.71	67.9	35-100	0.704	20	
4-Chloro-3-methylphenol	2.65	0.71	0.15	mg/kg dry	3.50	<0.71	75.5	35-100	0.681	20	
4-Nitrophenol	3.12	0.71	0.18	mg/kg dry	3.50	<0.71	89.1	40-100	2.79	20	
Anthracene	2.71	0.35	0.073	mg/kg dry	3.50	<0.35	77.3	55-100	2.60	20	
Benzo(a)anthracene	2.80	0.35	0.068	mg/kg dry	3.50	<0.35	80.0	50-100	1.36	20	
Benzo(a)pyrene	2.90	0.35	0.074	mg/kg dry	3.50	<0.35	82.7	50-100	1.60	20	
Chrysene	2.85	0.35	0.067	mg/kg dry	3.50	<0.35	81.3	50-100	0.253	20	
Fluoranthene	2.67	0.35	0.072	mg/kg dry	3.50	<0.35	76.2	50-100	1.95	20	
Fluorene	2.88	0.35	0.068	mg/kg dry	3.50	<0.35	82.3	50-100	0.770	20	
N-Nitrosodi-n-propylamine	2.58	0.35	0.077	mg/kg dry	3.50	<0.35	73.8	35-100	0.258	20	
Pentachlorophenol	2.27	0.71	0.20	mg/kg dry	3.50	<0.71	64.9	30-100	2.94	20	
Phenanthrene	2.73	0.35	0.069	mg/kg dry	3.50	<0.35	78.0	55-100	2.35	20	
Phenol	2.22	0.71	0.15	mg/kg dry	3.50	<0.71	63.3	35-100	0.338	20	
Surrogate: 2,4,6-Tribromophenol	4.97			mg/kg dry	7.01		70.9	53-107			
Surrogate: 2-Fluorobiphenyl	4.51			mg/kg dry	7.01		64.4	53.9-97.9			
Surrogate: 2-Fluorophenol	4.39			mg/kg dry	7.01		62.6	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.39			mg/kg dry	7.01		62.7	48.9-100			
Surrogate: Phenol-d6	4.57			mg/kg dry	7.01		65.2	50.4-99.6			
Surrogate: Terphenyl-d14	4.88			mg/kg dry	7.01		69.6	51-99.6			



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K3003 - EPA 3545 ASE Extraction

Blank (B6K3003-BLK1)

Prepared & Analyzed: 11/30/16

1,2,4-Trichlorobenzene	< 0.33	0.33	0.075	mg/kg wet							
1,2-Dichlorobenzene	< 0.33	0.33	0.067	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.33	0.33	0.058	mg/kg wet							
1,3-Dichlorobenzene	< 0.33	0.33	0.069	mg/kg wet							
1,4-Dichlorobenzene	< 0.33	0.33	0.068	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
2,4,5-Trichlorophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4,6-Trichlorophenol	< 0.67	0.67	0.16	mg/kg wet							
2,4-Dichlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2,4-Dimethylphenol	< 0.67	0.67	0.13	mg/kg wet							
2,4-Dinitrophenol	< 0.67	0.67	0.071	mg/kg wet							
2,4-Dinitrotoluene	< 0.33	0.33	0.068	mg/kg wet							
2,6-Dichlorophenol	< 0.67	0.67	0.13	mg/kg wet							
2,6-Dinitrotoluene	< 0.33	0.33	0.077	mg/kg wet							
2-Chloronaphthalene	< 0.33	0.33	0.068	mg/kg wet							
2-Chlorophenol	< 0.67	0.67	0.15	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.080	mg/kg wet							
2-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
2-Nitroaniline	< 0.33	0.33	0.069	mg/kg wet							
2-Nitrophenol	< 0.67	0.67	0.18	mg/kg wet							
3&4-Methylphenol	< 0.67	0.67	0.082	mg/kg wet							
3,3'-Dichlorobenzidine	< 1.6	1.6	0.45	mg/kg wet							
3-Nitroaniline	< 0.33	0.33	0.072	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.67	0.67	0.11	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Chloro-3-methylphenol	< 0.67	0.67	0.14	mg/kg wet							
4-Chloroaniline	< 0.67	0.67	0.067	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.33	0.33	0.068	mg/kg wet							
4-Nitroaniline	< 0.33	0.33	0.083	mg/kg wet							
4-Nitrophenol	< 0.67	0.67	0.17	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.063	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.071	mg/kg wet							
Aniline	< 0.67	0.67	0.066	mg/kg wet							
Anthracene	< 0.33	0.33	0.069	mg/kg wet							
Benzidine	< 2.5	2.5	0.44	mg/kg wet							
Benzo(a)anthracene	< 0.33	0.33	0.065	mg/kg wet							
Benzo(a)pyrene	< 0.33	0.33	0.070	mg/kg wet							
Benzo(b)fluoranthene	< 0.33	0.33	0.059	mg/kg wet							
Benzo(g,h,i)perylene	< 0.33	0.33	0.071	mg/kg wet							



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K3003 - EPA 3545 ASE Extraction

Blank (B6K3003-BLK1)

Prepared & Analyzed: 11/30/16

Benzo(k)fluoranthene	< 0.33	0.33	0.070	mg/kg wet							
Benzoic acid	< 0.33	0.33	0.064	mg/kg wet							
Benzyl alcohol	< 0.67	0.67	0.15	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.33	0.33	0.077	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.33	0.33	0.069	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.33	0.33	0.078	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.33	0.33	0.081	mg/kg wet							
Butyl benzyl phthalate	< 0.33	0.33	0.083	mg/kg wet							
Carbazole	< 0.33	0.33	0.076	mg/kg wet							
Chrysene	< 0.33	0.33	0.064	mg/kg wet							
Dibenz(a,h)anthracene	< 0.33	0.33	0.082	mg/kg wet							
Dibenzofuran	< 0.33	0.33	0.068	mg/kg wet							
Diethyl phthalate	< 0.33	0.33	0.063	mg/kg wet							
Dimethyl phthalate	< 0.33	0.33	0.069	mg/kg wet							
Di-n-butyl phthalate	< 0.33	0.33	0.079	mg/kg wet							
Di-n-octyl phthalate	< 0.33	0.33	0.10	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.068	mg/kg wet							
Fluorene	< 0.33	0.33	0.065	mg/kg wet							
Hexachlorobenzene	< 0.33	0.33	0.062	mg/kg wet							
Hexachlorobutadiene	< 0.33	0.33	0.077	mg/kg wet							
Hexachlorocyclopentadiene	< 0.33	0.33	0.069	mg/kg wet							
Hexachloroethane	< 0.33	0.33	0.082	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.072	mg/kg wet							
Isophorone	< 0.33	0.33	0.076	mg/kg wet							
Naphthalene	< 0.33	0.33	0.071	mg/kg wet							
Nitrobenzene	< 0.33	0.33	0.080	mg/kg wet							
N-Nitrosodimethylamine	< 0.33	0.33	0.070	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.33	0.33	0.073	mg/kg wet							
N-Nitrosodiphenylamine	< 0.33	0.33	0.067	mg/kg wet							
Pentachlorophenol	< 0.67	0.67	0.19	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.066	mg/kg wet							
Phenol	< 0.67	0.67	0.14	mg/kg wet							
Pyrene	< 0.33	0.33	0.059	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	5.66			mg/kg wet	6.67		84.9	53-107			
Surrogate: 2-Fluorobiphenyl	5.12			mg/kg wet	6.67		76.9	53.9-97.9			
Surrogate: 2-Fluorophenol	4.40			mg/kg wet	6.67		66.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	4.42			mg/kg wet	6.67		66.3	48.9-100			
Surrogate: Phenol-d6	4.59			mg/kg wet	6.67		68.9	50.4-99.6			
Surrogate: Terphenyl-d14	4.98			mg/kg wet	6.67		74.7	51-99.6			

Legend Technical Services, Inc.

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550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K3003 - EPA 3545 ASE Extraction

LCS (B6K3003-BS1)

Prepared: 11/30/16 Analyzed: 12/02/16

1,2,4-Trichlorobenzene	2.20	0.33	0.075	mg/kg wet	3.33	<0.33	66.0	50-100			
1,4-Dichlorobenzene	1.95	0.33	0.068	mg/kg wet	3.33	<0.33	58.5	40-80			
2,4-Dinitrotoluene	2.94	0.33	0.068	mg/kg wet	3.33	<0.33	88.1	50-90			
2-Chlorophenol	2.11	0.67	0.15	mg/kg wet	3.33	<0.67	63.2	50-85			
4-Chloro-3-methylphenol	2.18	0.67	0.14	mg/kg wet	3.33	<0.67	65.3	55-90			
4-Nitrophenol	2.51	0.67	0.17	mg/kg wet	3.33	<0.67	75.2	45-100			
Anthracene	2.38	0.33	0.069	mg/kg wet	3.33	<0.33	71.3	55-95			
Benzo(a)anthracene	2.43	0.33	0.065	mg/kg wet	3.33	<0.33	72.9	55-100			
Benzo(a)pyrene	2.43	0.33	0.070	mg/kg wet	3.33	<0.33	72.8	55-100			
Chrysene	2.48	0.33	0.064	mg/kg wet	3.33	<0.33	74.3	55-100			
Fluoranthene	2.38	0.33	0.068	mg/kg wet	3.33	<0.33	71.5	55-95			
Fluorene	2.57	0.33	0.065	mg/kg wet	3.33	<0.33	77.0	55-95			
N-Nitrosodi-n-propylamine	1.95	0.33	0.073	mg/kg wet	3.33	<0.33	58.5	50-90			
Pentachlorophenol	2.39	0.67	0.19	mg/kg wet	3.33	<0.67	71.6	35-95			
Phenanthrene	2.38	0.33	0.066	mg/kg wet	3.33	<0.33	71.5	55-95			
Phenol	1.97	0.67	0.14	mg/kg wet	3.33	<0.67	59.2	50-85			
Surrogate: 2,4,6-Tribromophenol	5.12			mg/kg wet	6.67		76.7	53-107			
Surrogate: 2-Fluorobiphenyl	4.46			mg/kg wet	6.67		66.9	53.9-97.9			
Surrogate: 2-Fluorophenol	4.00			mg/kg wet	6.67		60.0	42.5-94.9			
Surrogate: Nitrobenzene-d5	3.96			mg/kg wet	6.67		59.4	48.9-100			
Surrogate: Phenol-d6	4.06			mg/kg wet	6.67		60.9	50.4-99.6			
Surrogate: Terphenyl-d14	4.60			mg/kg wet	6.67		68.9	51-99.6			

Matrix Spike (B6K3003-MS1)

Source: 1605064-17RE1 Prepared & Analyzed: 11/30/16

1,2,4-Trichlorobenzene	7.96	1.3	0.29	mg/kg dry	12.8	<1.3	62.4	35-100			
1,4-Dichlorobenzene	7.01	1.3	0.26	mg/kg dry	12.8	<1.3	55.0	30-85			
2,4-Dinitrotoluene	10.6	1.3	0.26	mg/kg dry	12.8	<1.3	82.8	45-95			
2-Chlorophenol	7.89	2.6	0.57	mg/kg dry	12.8	<2.6	61.8	35-100			
4-Chloro-3-methylphenol	8.30	2.6	0.54	mg/kg dry	12.8	<2.6	65.1	35-100			
4-Nitrophenol	9.26	2.6	0.65	mg/kg dry	12.8	<2.6	72.6	40-100			
Anthracene	9.22	1.3	0.26	mg/kg dry	12.8	<1.3	67.8	55-100			
Benzo(a)anthracene	11.3	1.3	0.25	mg/kg dry	12.8	3.70	59.7	50-100			
Benzo(a)pyrene	10.8	1.3	0.27	mg/kg dry	12.8	3.26	59.2	50-100			
Chrysene	12.0	1.3	0.24	mg/kg dry	12.8	4.37	59.7	50-100			
Fluoranthene	11.3	1.3	0.26	mg/kg dry	12.8	4.25	55.1	50-100			
Fluorene	9.60	1.3	0.25	mg/kg dry	12.8	<1.3	75.2	50-100			
N-Nitrosodi-n-propylamine	7.48	1.3	0.28	mg/kg dry	12.8	<1.3	58.6	35-100			
Pentachlorophenol	8.28	2.6	0.73	mg/kg dry	12.8	<2.6	64.9	30-100			
Phenanthrene	9.65	1.3	0.25	mg/kg dry	12.8	1.38	64.8	55-100			
Phenol	7.54	2.6	0.54	mg/kg dry	12.8	<2.6	59.1	35-100			

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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

SVOC 8270D - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K3003 - EPA 3545 ASE Extraction

Matrix Spike (B6K3003-MS1)

Source: 1605064-17RE1

Prepared & Analyzed: 11/30/16

Surrogate: 2,4,6-Tribromophenol	18.9			mg/kg dry	25.5		74.0	53-107			
Surrogate: 2-Fluorobiphenyl	16.8			mg/kg dry	25.5		65.8	53.9-97.9			
Surrogate: 2-Fluorophenol	15.3			mg/kg dry	25.5		59.9	42.5-94.9			
Surrogate: Nitrobenzene-d5	15.2			mg/kg dry	25.5		59.4	48.9-100			
Surrogate: Phenol-d6	15.5			mg/kg dry	25.5		60.9	50.4-99.6			
Surrogate: Terphenyl-d14	16.4			mg/kg dry	25.5		64.2	51-99.6			

Matrix Spike Dup (B6K3003-MSD1)

Source: 1605064-17RE1

Prepared: 11/30/16 Analyzed: 12/01/16

1,2,4-Trichlorobenzene	8.22	1.3	0.29	mg/kg dry	12.8	<1.3	64.4	35-100	3.18	20	
1,4-Dichlorobenzene	7.36	1.3	0.26	mg/kg dry	12.8	<1.3	57.7	30-85	4.89	20	
2,4-Dinitrotoluene	10.8	1.3	0.26	mg/kg dry	12.8	<1.3	84.4	45-95	1.94	20	
2-Chlorophenol	7.86	2.6	0.57	mg/kg dry	12.8	<2.6	61.6	35-100	0.438	20	
4-Chloro-3-methylphenol	8.12	2.6	0.54	mg/kg dry	12.8	<2.6	63.6	35-100	2.25	20	
4-Nitrophenol	9.03	2.6	0.65	mg/kg dry	12.8	<2.6	70.8	40-100	2.58	20	
Anthracene	9.15	1.3	0.26	mg/kg dry	12.8	<1.3	67.3	55-100	0.701	20	
Benzo(a)anthracene	11.5	1.3	0.25	mg/kg dry	12.8	3.70	61.4	50-100	1.85	20	
Benzo(a)pyrene	10.6	1.3	0.27	mg/kg dry	12.8	3.26	57.4	50-100	2.13	20	
Chrysene	11.8	1.3	0.24	mg/kg dry	12.8	4.37	58.0	50-100	1.80	20	
Fluoranthene	11.1	1.3	0.26	mg/kg dry	12.8	4.25	53.6	50-100	1.79	20	
Fluorene	9.65	1.3	0.25	mg/kg dry	12.8	<1.3	75.7	50-100	0.567	20	
N-Nitrosodi-n-propylamine	7.54	1.3	0.28	mg/kg dry	12.8	<1.3	59.1	35-100	0.759	20	
Pentachlorophenol	8.28	2.6	0.73	mg/kg dry	12.8	<2.6	64.9	30-100	0.00185	20	
Phenanthrene	9.65	1.3	0.25	mg/kg dry	12.8	1.38	64.8	55-100	0.00530	20	
Phenol	7.42	2.6	0.54	mg/kg dry	12.8	<2.6	58.2	35-100	1.61	20	
Surrogate: 2,4,6-Tribromophenol	18.7			mg/kg dry	25.5		73.4	53-107			
Surrogate: 2-Fluorobiphenyl	16.8			mg/kg dry	25.5		65.9	53.9-97.9			
Surrogate: 2-Fluorophenol	15.2			mg/kg dry	25.5		59.6	42.5-94.9			
Surrogate: Nitrobenzene-d5	15.4			mg/kg dry	25.5		60.3	48.9-100			
Surrogate: Phenol-d6	15.4			mg/kg dry	25.5		60.4	50.4-99.6			
Surrogate: Terphenyl-d14	16.7			mg/kg dry	25.5		65.4	51-99.6			



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 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

TCLP METALS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6L1402 - EPA 1311											
Blank (B6L1402-BLK1)											
Lead	< 0.075	0.075	0.018	mg/L							Prepared: 12/14/16 Analyzed: 12/19/16
LCS (B6L1402-BS1)											
Lead	3.85	0.075	0.018	mg/L	3.99	<0.075	96.5	80-120			Prepared: 12/14/16 Analyzed: 12/19/16
LCS Dup (B6L1402-BSD1)											
Lead	3.88	0.075	0.018	mg/L	3.99	<0.075	97.2	80-120	0.776	20	Prepared: 12/14/16 Analyzed: 12/19/16
Matrix Spike (B6L1402-MS2)											
	Source: 1605055-05					Prepared: 12/14/16 Analyzed: 12/19/16					
Lead	3.88	0.075	0.018	mg/L	3.99	0.0890	95.0	75-125			
Matrix Spike Dup (B6L1402-MSD2)											
	Source: 1605055-05					Prepared: 12/14/16 Analyzed: 12/19/16					
Lead	3.93	0.075	0.018	mg/L	3.99	0.0890	96.3	75-125	1.28	20	



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2826-BLK1)

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1,1-Trichloroethane	< 0.20	0.20	0.023	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.016	mg/kg wet							
1,1,2-Trichloroethane	< 0.20	0.20	0.014	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.20	0.20	0.020	mg/kg wet							
1,1-Dichloroethane	< 0.20	0.20	0.0097	mg/kg wet							
1,1-Dichloroethene	< 0.20	0.20	0.013	mg/kg wet							
1,1-Dichloropropene	< 0.20	0.20	0.015	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.50	0.50	0.097	mg/kg wet							
1,2,3-Trichloropropane	< 0.20	0.20	0.030	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.50	0.50	0.071	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.20	0.20	0.018	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.50	0.50	0.046	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.20	0.20	0.024	mg/kg wet							
1,2-Dichlorobenzene	< 0.20	0.20	0.013	mg/kg wet							
1,2-Dichloroethane	< 0.20	0.20	0.022	mg/kg wet							
1,2-Dichloropropane	< 0.20	0.20	0.021	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.20	0.20	0.025	mg/kg wet							
1,3-Dichlorobenzene	< 0.20	0.20	0.0090	mg/kg wet							
1,3-Dichloropropane	< 0.20	0.20	0.015	mg/kg wet							
1,4-Dichlorobenzene	< 0.20	0.20	0.016	mg/kg wet							
2,2-Dichloropropane	< 0.20	0.20	0.052	mg/kg wet							
2-Butanone	< 1.0	1.0	0.094	mg/kg wet							
2-Chlorotoluene	< 0.20	0.20	0.020	mg/kg wet							
4-Chlorotoluene	< 0.20	0.20	0.022	mg/kg wet							
Acetone	< 1.0	1.0	0.12	mg/kg wet							
Allyl chloride	< 0.20	0.20	0.025	mg/kg wet							
Benzene	< 0.20	0.20	0.015	mg/kg wet							
Bromobenzene	< 0.20	0.20	0.020	mg/kg wet							
Bromochloromethane	< 0.20	0.20	0.023	mg/kg wet							
Bromodichloromethane	< 0.20	0.20	0.019	mg/kg wet							
Bromoform	< 0.20	0.20	0.036	mg/kg wet							
Bromomethane	< 0.20	0.20	0.030	mg/kg wet							
Carbon tetrachloride	< 0.20	0.20	0.025	mg/kg wet							
Chlorobenzene	< 0.20	0.20	0.014	mg/kg wet							
Chloroethane	< 0.20	0.20	0.030	mg/kg wet							
Chloroform	< 0.20	0.20	0.031	mg/kg wet							
Chloromethane	< 0.20	0.20	0.027	mg/kg wet							
cis-1,2-Dichloroethene	< 0.20	0.20	0.012	mg/kg wet							



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2826-BLK1)

Prepared: 11/28/16 Analyzed: 11/29/16

cis-1,3-Dichloropropene	< 0.20	0.20	0.025	mg/kg wet							
Dibromochloromethane	< 0.20	0.20	0.025	mg/kg wet							
Dibromomethane	< 0.20	0.20	0.025	mg/kg wet							
Dichlorodifluoromethane	< 0.20	0.20	0.037	mg/kg wet							
Dichlorofluoromethane	< 0.20	0.20	0.010	mg/kg wet							
Ethyl ether	< 0.20	0.20	0.024	mg/kg wet							
Ethylbenzene	< 0.20	0.20	0.021	mg/kg wet							
Hexachlorobutadiene	< 0.50	0.50	0.079	mg/kg wet							
Isopropylbenzene	< 0.20	0.20	0.030	mg/kg wet							
m,p-Xylene	< 0.40	0.40	0.048	mg/kg wet							
Methyl isobutyl ketone	< 0.20	0.20	0.043	mg/kg wet							
Methyl tert-butyl ether	< 0.20	0.20	0.0097	mg/kg wet							
Methylene chloride	< 0.50	0.50	0.060	mg/kg wet							
Naphthalene	< 0.50	0.50	0.048	mg/kg wet							
n-Butylbenzene	< 0.20	0.20	0.016	mg/kg wet							
n-Propylbenzene	< 0.20	0.20	0.010	mg/kg wet							
o-Xylene	< 0.20	0.20	0.017	mg/kg wet							
p-Isopropyltoluene	< 0.20	0.20	0.011	mg/kg wet							
sec-Butylbenzene	< 0.20	0.20	0.022	mg/kg wet							
Styrene	< 0.20	0.20	0.016	mg/kg wet							
tert-Butylbenzene	< 0.20	0.20	0.026	mg/kg wet							
Tetrachloroethene	< 0.20	0.20	0.038	mg/kg wet							
Tetrahydrofuran	< 1.0	1.0	0.11	mg/kg wet							
Toluene	< 0.20	0.20	0.0068	mg/kg wet							
trans-1,2-Dichloroethene	< 0.20	0.20	0.018	mg/kg wet							
trans-1,3-Dichloropropene	< 0.20	0.20	0.020	mg/kg wet							
Trichloroethene	< 0.20	0.20	0.018	mg/kg wet							
Trichlorofluoromethane	< 0.20	0.20	0.029	mg/kg wet							
Vinyl chloride	< 0.20	0.20	0.021	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	47.0			ug/L	48.1		97.7	80-124			
Surrogate: Dibromofluoromethane	48.9			ug/L	48.1		102	77.1-123			
Surrogate: Toluene-d8	47.9			ug/L	48.1		99.7	78.1-125			

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

1,1,1,2-Tetrachloroethane	50.7			ug/L	50.0		101	80-120			
1,1,1-Trichloroethane	48.1			ug/L	50.0		96.2	80-120			
1,1,2,2-Tetrachloroethane	50.1			ug/L	50.0		100	75-120			
1,1,2-Trichloroethane	49.0			ug/L	50.0		98.0	80-120			
1,1,2-Trichlorotrifluoroethane	48.6			ug/L	50.0		97.2	80-120			
1,1-Dichloroethane	46.8			ug/L	50.0		93.6	79.6-120			

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

1,1-Dichloroethene	45.5			ug/L	50.0		90.9	78.3-120			
1,1-Dichloropropene	48.5			ug/L	50.0		97.0	80-120			
1,2,3-Trichlorobenzene	39.2			ug/L	50.0		78.3	75-125			
1,2,3-Trichloropropane	50.7			ug/L	50.0		101	75.8-120			
1,2,4-Trichlorobenzene	40.4			ug/L	50.0		80.7	75-125			
1,2,4-Trimethylbenzene	51.0			ug/L	50.0		102	79.6-120			
1,2-Dibromo-3-chloropropane	44.4			ug/L	50.0		88.8	75-125			
1,2-Dibromoethane (EDB)	50.7			ug/L	50.0		101	80-120			
1,2-Dichlorobenzene	49.9			ug/L	50.0		99.8	75-125			
1,2-Dichloroethane	47.3			ug/L	50.0		94.6	80-120			
1,2-Dichloropropane	49.0			ug/L	50.0		98.0	80-120			
1,3,5-Trimethylbenzene	50.8			ug/L	50.0		102	77-120			
1,3-Dichlorobenzene	51.5			ug/L	50.0		103	75-125			
1,3-Dichloropropane	49.3			ug/L	50.0		98.5	80-120			
1,4-Dichlorobenzene	50.2			ug/L	50.0		100	75-125			
2,2-Dichloropropane	43.0			ug/L	50.0		85.9	60-137			
2-Butanone	44.3			ug/L	50.0		88.6	80-120			
2-Chlorotoluene	50.2			ug/L	50.0		100	75.9-120			
4-Chlorotoluene	49.9			ug/L	50.0		99.9	75.3-120			
Acetone	40.1			ug/L	50.0		80.3	80-120			
Allyl chloride	45.5			ug/L	50.0		91.1	80-120			
Benzene	50.4			ug/L	50.0		101	80-120			
Bromobenzene	51.9			ug/L	50.0		104	76.6-120			
Bromochloromethane	47.0			ug/L	50.0		94.0	80-120			
Bromodichloromethane	50.3			ug/L	50.0		101	80-120			
Bromoform	51.3			ug/L	50.0		103	80-120			
Bromomethane	51.0			ug/L	50.0		102	74.7-130			
Carbon tetrachloride	49.9			ug/L	50.0		99.7	80-120			
Chlorobenzene	52.0			ug/L	50.0		104	80-120			
Chloroethane	51.8			ug/L	50.0		104	75-130			
Chloroform	47.0			ug/L	50.0		94.0	80-120			
Chloromethane	47.1			ug/L	50.0		94.2	70-130			
cis-1,2-Dichloroethene	48.7			ug/L	50.0		97.4	80-120			
cis-1,3-Dichloropropene	49.3			ug/L	50.0		98.6	80-120			
Dibromochloromethane	50.3			ug/L	50.0		101	80-120			
Dibromomethane	50.3			ug/L	50.0		101	80-120			
Dichlorodifluoromethane	45.4			ug/L	50.0		90.8	70-130			
Dichlorofluoromethane	51.5			ug/L	50.0		103	80-120			
Ethyl ether	48.2			ug/L	50.0		96.3	80-120			



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2826-BS1)

Prepared & Analyzed: 11/28/16

Ethylbenzene	50.1			ug/L	50.0		100	80-120			
Hexachlorobutadiene	43.2			ug/L	50.0		86.4	70-130			
Isopropylbenzene	51.6			ug/L	50.0		103	76.4-120			
m,p-Xylene	105			ug/L	100		105	80-120			
Methyl isobutyl ketone	51.4			ug/L	50.0		103	80-120			
Methyl tert-butyl ether	48.2			ug/L	50.0		96.3	80-120			
Methylene chloride	46.9			ug/L	50.0		93.7	75-122			
Naphthalene	39.7			ug/L	50.0		79.5	75-125			
n-Butylbenzene	48.0			ug/L	50.0		96.0	75-125			
n-Propylbenzene	51.2			ug/L	50.0		102	75-120			
o-Xylene	52.4			ug/L	50.0		105	80-120			
p-Isopropyltoluene	50.2			ug/L	50.0		100	75-125			
sec-Butylbenzene	50.5			ug/L	50.0		101	76.6-120			
Styrene	52.9			ug/L	50.0		106	80-120			
tert-Butylbenzene	51.3			ug/L	50.0		103	76.5-120			
Tetrachloroethene	50.4			ug/L	50.0		101	80-120			
Tetrahydrofuran	47.5			ug/L	50.0		95.1	80-120			
Toluene	51.2			ug/L	50.0		102	80-120			
trans-1,2-Dichloroethene	47.9			ug/L	50.0		95.8	80-120			
trans-1,3-Dichloropropene	49.2			ug/L	50.0		98.4	79.2-120			
Trichloroethene	50.5			ug/L	50.0		101	80-120			
Trichlorofluoromethane	51.9			ug/L	50.0		104	75-130			
Vinyl chloride	47.1			ug/L	50.0		94.3	75-130			
Surrogate: 4-Bromofluorobenzene	47.3			ug/L	48.1		98.2	80-124			
Surrogate: Dibromofluoromethane	49.3			ug/L	48.1		103	77.1-123			
Surrogate: Toluene-d8	47.9			ug/L	48.1		99.5	78.1-125			

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.1			ug/L	50.0	0.00	104	80-120			
1,1,1-Trichloroethane	48.3			ug/L	50.0	0.00	96.6	80-120			
1,1,2,2-Tetrachloroethane	50.1			ug/L	50.0	0.00	100	75-125			
1,1,2-Trichloroethane	49.5			ug/L	50.0	0.00	99.0	80-120			
1,1,2-Trichlorotrifluoroethane	48.0			ug/L	50.0	0.00	95.9	80-120			
1,1-Dichloroethane	47.1			ug/L	50.0	0.00	94.3	78.7-123			
1,1-Dichloroethene	46.1			ug/L	50.0	0.00	92.2	75.8-121			
1,1-Dichloropropene	47.4			ug/L	50.0	0.00	94.8	80-120			
1,2,3-Trichlorobenzene	38.2			ug/L	50.0	0.00	76.4	72.7-125			
1,2,3-Trichloropropane	50.2			ug/L	50.0	0.00	100	75-120			
1,2,4-Trichlorobenzene	39.4			ug/L	50.0	0.00	78.7	70-125			
1,2,4-Trimethylbenzene	50.4			ug/L	50.0	0.00	101	75-120			



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,2-Dibromo-3-chloropropane	43.3			ug/L	50.0	0.00	86.6	70-130			
1,2-Dibromoethane (EDB)	52.0			ug/L	50.0	0.00	104	80-120			
1,2-Dichlorobenzene	48.9			ug/L	50.0	0.00	97.9	75-125			
1,2-Dichloroethane	46.5			ug/L	50.0	0.00	93.0	80-120			
1,2-Dichloropropane	49.3			ug/L	50.0	0.00	98.6	80-120			
1,3,5-Trimethylbenzene	51.6			ug/L	50.0	0.00	103	75-120			
1,3-Dichlorobenzene	51.4			ug/L	50.0	0.00	103	75-125			
1,3-Dichloropropane	50.3			ug/L	50.0	0.00	101	80-120			
1,4-Dichlorobenzene	50.4			ug/L	50.0	0.00	101	75-125			
2,2-Dichloropropane	41.3			ug/L	50.0	0.00	82.5	60-135			
2-Butanone	43.3			ug/L	50.0	0.00	86.6	80-120			
2-Chlorotoluene	50.6			ug/L	50.0	0.00	101	75-120			
4-Chlorotoluene	50.7			ug/L	50.0	0.00	101	75-120			
Acetone	40.0			ug/L	50.0	0.00	80.0	80-120			
Allyl chloride	45.7			ug/L	50.0	0.00	91.4	80-120			
Benzene	51.1			ug/L	50.0	0.00	102	80-120			
Bromobenzene	52.3			ug/L	50.0	0.00	105	75-120			
Bromochloromethane	48.1			ug/L	50.0	0.00	96.3	78.9-122			
Bromodichloromethane	49.1			ug/L	50.0	0.00	98.3	80-120			
Bromoform	51.0			ug/L	50.0	0.00	102	80-120			
Bromomethane	51.2			ug/L	50.0	0.00	102	70-130			
Carbon tetrachloride	50.5			ug/L	50.0	0.00	101	80-120			
Chlorobenzene	52.5			ug/L	50.0	0.00	105	80-120			
Chloroethane	53.4			ug/L	50.0	0.00	107	75-130			
Chloroform	47.9			ug/L	50.0	0.00	95.9	80-120			
Chloromethane	48.4			ug/L	50.0	0.00	96.7	70-130			
cis-1,2-Dichloroethene	49.3			ug/L	50.0	0.00	98.6	80-120			
cis-1,3-Dichloropropene	48.2			ug/L	50.0	0.00	96.4	78.1-120			
Dibromochloromethane	52.2			ug/L	50.0	0.00	104	80-120			
Dibromomethane	48.6			ug/L	50.0	0.00	97.3	80-120			
Dichlorodifluoromethane	47.3			ug/L	50.0	0.00	94.5	70-130			
Dichlorofluoromethane	54.3			ug/L	50.0	0.00	109	80-120			
Ethyl ether	48.6			ug/L	50.0	0.00	97.3	80-120			
Ethylbenzene	51.4			ug/L	50.0	0.00	103	80-120			
Hexachlorobutadiene	42.7			ug/L	50.0	0.00	85.4	70-130			
Isopropylbenzene	52.4			ug/L	50.0	0.00	105	75-120			
m,p-Xylene	108			ug/L	100	0.00	108	80-120			
Methyl isobutyl ketone	48.9			ug/L	50.0	0.00	97.9	80-120			
Methyl tert-butyl ether	47.6			ug/L	50.0	0.00	95.2	80-120			



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2826-MS1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

Methylene chloride	47.2			ug/L	50.0	0.00	94.4	75-125			
Naphthalene	37.5			ug/L	50.0	0.00	74.9	71.3-125			
n-Butylbenzene	47.6			ug/L	50.0	0.00	95.1	73.8-125			
n-Propylbenzene	52.0			ug/L	50.0	0.00	104	75-120			
o-Xylene	54.0			ug/L	50.0	0.00	108	80-120			
p-Isopropyltoluene	50.1			ug/L	50.0	0.00	100	75-125			
sec-Butylbenzene	51.1			ug/L	50.0	0.00	102	75-120			
Styrene	53.9			ug/L	50.0	0.00	108	80-120			
tert-Butylbenzene	51.5			ug/L	50.0	0.00	103	75-120			
Tetrachloroethene	50.7			ug/L	50.0	0.00	101	80-120			
Tetrahydrofuran	44.8			ug/L	50.0	0.00	89.5	80-120			
Toluene	51.2			ug/L	50.0	0.00	102	80-120			
trans-1,2-Dichloroethene	48.2			ug/L	50.0	0.00	96.3	80-120			
trans-1,3-Dichloropropene	48.4			ug/L	50.0	0.00	96.8	80-120			
Trichloroethene	49.5			ug/L	50.0	0.00	99.1	80-120			
Trichlorofluoromethane	53.6			ug/L	50.0	0.00	107	70-130			
Vinyl chloride	48.9			ug/L	50.0	0.00	97.8	74.8-130			
Surrogate: 4-Bromofluorobenzene	47.6			ug/L	48.1		99.0	80-124			
Surrogate: Dibromofluoromethane	48.4			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.3			ug/L	48.1		100	78.1-125			

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	50.4			ug/L	50.0	0.00	101	80-120	3.37	20	
1,1,1-Trichloroethane	46.7			ug/L	50.0	0.00	93.3	80-120	3.48	20	
1,1,2,2-Tetrachloroethane	48.4			ug/L	50.0	0.00	96.7	75-125	3.59	20	
1,1,2-Trichloroethane	49.1			ug/L	50.0	0.00	98.2	80-120	0.887	20	
1,1,2-Trichlorotrifluoroethane	48.2			ug/L	50.0	0.00	96.4	80-120	0.528	20	
1,1-Dichloroethane	46.4			ug/L	50.0	0.00	92.8	78.7-123	1.58	20	
1,1-Dichloroethene	45.3			ug/L	50.0	0.00	90.6	75.8-121	1.77	20	
1,1-Dichloropropene	46.7			ug/L	50.0	0.00	93.5	80-120	1.44	20	
1,2,3-Trichlorobenzene	38.5			ug/L	50.0	0.00	77.0	72.7-125	0.772	20	
1,2,3-Trichloropropane	48.7			ug/L	50.0	0.00	97.3	75-120	3.06	20	
1,2,4-Trichlorobenzene	39.4			ug/L	50.0	0.00	78.8	70-125	0.105	20	
1,2,4-Trimethylbenzene	49.8			ug/L	50.0	0.00	99.5	75-120	1.39	20	
1,2-Dibromo-3-chloropropane	43.4			ug/L	50.0	0.00	86.7	70-130	0.118	20	
1,2-Dibromoethane (EDB)	50.4			ug/L	50.0	0.00	101	80-120	3.15	20	
1,2-Dichlorobenzene	47.6			ug/L	50.0	0.00	95.2	75-125	2.80	20	
1,2-Dichloroethane	45.1			ug/L	50.0	0.00	90.2	80-120	3.12	20	
1,2-Dichloropropane	48.0			ug/L	50.0	0.00	96.0	80-120	2.59	20	
1,3,5-Trimethylbenzene	49.9			ug/L	50.0	0.00	99.8	75-120	3.32	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

1,3-Dichlorobenzene	49.8			ug/L	50.0	0.00	99.5	75-125	3.17	20	
1,3-Dichloropropane	49.0			ug/L	50.0	0.00	98.1	80-120	2.64	20	
1,4-Dichlorobenzene	48.7			ug/L	50.0	0.00	97.3	75-125	3.44	20	
2,2-Dichloropropane	40.2			ug/L	50.0	0.00	80.5	60-135	2.52	20	
2-Butanone	43.6			ug/L	50.0	0.00	87.2	80-120	0.705	20	
2-Chlorotoluene	48.8			ug/L	50.0	0.00	97.6	75-120	3.65	20	
4-Chlorotoluene	49.2			ug/L	50.0	0.00	98.3	75-120	3.16	20	
Acetone	40.1			ug/L	50.0	0.00	80.1	80-120	0.0809	20	
Allyl chloride	45.5			ug/L	50.0	0.00	90.9	80-120	0.542	20	
Benzene	48.3			ug/L	50.0	0.00	96.6	80-120	5.69	20	
Bromobenzene	50.2			ug/L	50.0	0.00	100	75-120	4.05	20	
Bromochloromethane	46.8			ug/L	50.0	0.00	93.5	78.9-122	2.86	20	
Bromodichloromethane	48.3			ug/L	50.0	0.00	96.5	80-120	1.76	20	
Bromoform	49.8			ug/L	50.0	0.00	99.7	80-120	2.24	20	
Bromomethane	51.6			ug/L	50.0	0.00	103	70-130	0.669	20	
Carbon tetrachloride	48.8			ug/L	50.0	0.00	97.6	80-120	3.56	20	
Chlorobenzene	51.3			ug/L	50.0	0.00	103	80-120	2.28	20	
Chloroethane	53.0			ug/L	50.0	0.00	106	75-130	0.730	20	
Chloroform	47.2			ug/L	50.0	0.00	94.4	80-120	1.57	20	
Chloromethane	46.9			ug/L	50.0	0.00	93.9	70-130	3.02	20	
cis-1,2-Dichloroethene	48.4			ug/L	50.0	0.00	96.9	80-120	1.73	20	
cis-1,3-Dichloropropene	47.5			ug/L	50.0	0.00	95.0	78.1-120	1.41	20	
Dibromochloromethane	50.8			ug/L	50.0	0.00	102	80-120	2.59	20	
Dibromomethane	46.8			ug/L	50.0	0.00	93.7	80-120	3.73	20	
Dichlorodifluoromethane	45.1			ug/L	50.0	0.00	90.2	70-130	4.67	20	
Dichlorofluoromethane	52.2			ug/L	50.0	0.00	104	80-120	3.93	20	
Ethyl ether	48.3			ug/L	50.0	0.00	96.7	80-120	0.629	20	
Ethylbenzene	49.7			ug/L	50.0	0.00	99.5	80-120	3.34	20	
Hexachlorobutadiene	42.2			ug/L	50.0	0.00	84.5	70-130	1.16	20	
Isopropylbenzene	50.7			ug/L	50.0	0.00	101	75-120	3.42	20	
m,p-Xylene	104			ug/L	100	0.00	104	80-120	4.09	20	
Methyl isobutyl ketone	45.8			ug/L	50.0	0.00	91.6	80-120	6.63	20	
Methyl tert-butyl ether	47.8			ug/L	50.0	0.00	95.6	80-120	0.337	20	
Methylene chloride	47.0			ug/L	50.0	0.00	94.0	75-125	0.429	20	
Naphthalene	38.6			ug/L	50.0	0.00	77.2	71.3-125	2.93	20	
n-Butylbenzene	46.3			ug/L	50.0	0.00	92.6	73.8-125	2.63	20	
n-Propylbenzene	50.0			ug/L	50.0	0.00	99.9	75-120	3.92	20	
o-Xylene	52.7			ug/L	50.0	0.00	105	80-120	2.44	20	
p-Isopropyltoluene	48.8			ug/L	50.0	0.00	97.6	75-125	2.71	20	



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American Engineering Testing, Inc.
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2826 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2826-MSD1)

Source: 1605055-01

Prepared: 11/28/16 Analyzed: 11/29/16

sec-Butylbenzene	49.8			ug/L	50.0	0.00	99.5	75-120	2.67	20	
Styrene	51.9			ug/L	50.0	0.00	104	80-120	3.93	20	
tert-Butylbenzene	50.3			ug/L	50.0	0.00	101	75-120	2.29	20	
Tetrachloroethene	49.8			ug/L	50.0	0.00	99.6	80-120	1.89	20	
Tetrahydrofuran	43.2			ug/L	50.0	0.00	86.4	80-120	3.52	20	
Toluene	49.7			ug/L	50.0	0.00	99.4	80-120	2.96	20	
trans-1,2-Dichloroethene	47.7			ug/L	50.0	0.00	95.4	80-120	0.915	20	
trans-1,3-Dichloropropene	47.8			ug/L	50.0	0.00	95.6	80-120	1.20	20	
Trichloroethene	48.9			ug/L	50.0	0.00	97.7	80-120	1.38	20	
Trichlorofluoromethane	52.6			ug/L	50.0	0.00	105	70-130	1.79	20	
Vinyl chloride	47.1			ug/L	50.0	0.00	94.1	74.8-130	3.82	20	
Surrogate: 4-Bromofluorobenzene	48.0			ug/L	48.1		99.8	80-124			
Surrogate: Dibromofluoromethane	48.7			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.5			ug/L	48.1		101	78.1-125			

Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	< 0.20	0.20	0.020	mg/kg wet
1,1,1-Trichloroethane	< 0.20	0.20	0.023	mg/kg wet
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.016	mg/kg wet
1,1,2-Trichloroethane	< 0.20	0.20	0.014	mg/kg wet
1,1,2-Trichlorotrifluoroethane	< 0.20	0.20	0.020	mg/kg wet
1,1-Dichloroethane	< 0.20	0.20	0.0097	mg/kg wet
1,1-Dichloroethene	< 0.20	0.20	0.013	mg/kg wet
1,1-Dichloropropene	< 0.20	0.20	0.015	mg/kg wet
1,2,3-Trichlorobenzene	< 0.50	0.50	0.097	mg/kg wet
1,2,3-Trichloropropane	< 0.20	0.20	0.030	mg/kg wet
1,2,4-Trichlorobenzene	< 0.50	0.50	0.071	mg/kg wet
1,2,4-Trimethylbenzene	< 0.20	0.20	0.018	mg/kg wet
1,2-Dibromo-3-chloropropane	< 0.50	0.50	0.046	mg/kg wet
1,2-Dibromoethane (EDB)	< 0.20	0.20	0.024	mg/kg wet
1,2-Dichlorobenzene	< 0.20	0.20	0.013	mg/kg wet
1,2-Dichloroethane	< 0.20	0.20	0.022	mg/kg wet
1,2-Dichloropropane	< 0.20	0.20	0.021	mg/kg wet
1,3,5-Trimethylbenzene	< 0.20	0.20	0.025	mg/kg wet
1,3-Dichlorobenzene	< 0.20	0.20	0.0090	mg/kg wet
1,3-Dichloropropane	< 0.20	0.20	0.015	mg/kg wet
1,4-Dichlorobenzene	< 0.20	0.20	0.016	mg/kg wet
2,2-Dichloropropane	< 0.20	0.20	0.052	mg/kg wet
2-Butanone	< 1.0	1.0	0.094	mg/kg wet



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American Engineering Testing, Inc.
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

2-Chlorotoluene	< 0.20	0.20	0.020	mg/kg wet							
4-Chlorotoluene	< 0.20	0.20	0.022	mg/kg wet							
Acetone	< 1.0	1.0	0.12	mg/kg wet							
Allyl chloride	< 0.20	0.20	0.025	mg/kg wet							
Benzene	< 0.20	0.20	0.015	mg/kg wet							
Bromobenzene	< 0.20	0.20	0.020	mg/kg wet							
Bromochloromethane	< 0.20	0.20	0.023	mg/kg wet							
Bromodichloromethane	< 0.20	0.20	0.019	mg/kg wet							
Bromoform	< 0.20	0.20	0.036	mg/kg wet							
Bromomethane	< 0.20	0.20	0.030	mg/kg wet							
Carbon tetrachloride	< 0.20	0.20	0.025	mg/kg wet							
Chlorobenzene	< 0.20	0.20	0.014	mg/kg wet							
Chloroethane	< 0.20	0.20	0.030	mg/kg wet							
Chloroform	< 0.20	0.20	0.031	mg/kg wet							
Chloromethane	< 0.20	0.20	0.027	mg/kg wet							
cis-1,2-Dichloroethene	< 0.20	0.20	0.012	mg/kg wet							
cis-1,3-Dichloropropene	< 0.20	0.20	0.025	mg/kg wet							
Dibromochloromethane	< 0.20	0.20	0.025	mg/kg wet							
Dibromomethane	< 0.20	0.20	0.025	mg/kg wet							
Dichlorodifluoromethane	< 0.20	0.20	0.037	mg/kg wet							
Dichlorofluoromethane	< 0.20	0.20	0.010	mg/kg wet							
Ethyl ether	< 0.20	0.20	0.024	mg/kg wet							
Ethylbenzene	< 0.20	0.20	0.021	mg/kg wet							
Hexachlorobutadiene	< 0.50	0.50	0.079	mg/kg wet							
Isopropylbenzene	< 0.20	0.20	0.030	mg/kg wet							
m,p-Xylene	< 0.40	0.40	0.048	mg/kg wet							
Methyl isobutyl ketone	< 0.20	0.20	0.043	mg/kg wet							
Methyl tert-butyl ether	< 0.20	0.20	0.0097	mg/kg wet							
Methylene chloride	< 0.50	0.50	0.060	mg/kg wet							
Naphthalene	< 0.50	0.50	0.048	mg/kg wet							
n-Butylbenzene	< 0.20	0.20	0.016	mg/kg wet							
n-Propylbenzene	< 0.20	0.20	0.010	mg/kg wet							
o-Xylene	< 0.20	0.20	0.017	mg/kg wet							
p-Isopropyltoluene	< 0.20	0.20	0.011	mg/kg wet							
sec-Butylbenzene	< 0.20	0.20	0.022	mg/kg wet							
Styrene	< 0.20	0.20	0.016	mg/kg wet							
tert-Butylbenzene	< 0.20	0.20	0.026	mg/kg wet							
Tetrachloroethene	< 0.20	0.20	0.038	mg/kg wet							
Tetrahydrofuran	< 1.0	1.0	0.11	mg/kg wet							



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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Blank (B6K2922-BLK1)

Prepared & Analyzed: 11/29/16

Toluene	< 0.20	0.20	0.0068	mg/kg wet							
trans-1,2-Dichloroethene	< 0.20	0.20	0.018	mg/kg wet							
trans-1,3-Dichloropropene	< 0.20	0.20	0.020	mg/kg wet							
Trichloroethene	< 0.20	0.20	0.018	mg/kg wet							
Trichlorofluoromethane	< 0.20	0.20	0.029	mg/kg wet							
Vinyl chloride	< 0.20	0.20	0.021	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	46.8			ug/L	48.1		97.3	80-124			
Surrogate: Dibromofluoromethane	48.4			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.4			ug/L	48.1		101	78.1-125			

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	51.2			ug/L	50.0		102	80-120			
1,1,1-Trichloroethane	47.1			ug/L	50.0		94.2	80-120			
1,1,2,2-Tetrachloroethane	50.8			ug/L	50.0		102	75-120			
1,1,2-Trichloroethane	51.2			ug/L	50.0		102	80-120			
1,1,2-Trichlorotrifluoroethane	48.4			ug/L	50.0		96.9	80-120			
1,1-Dichloroethane	47.2			ug/L	50.0		94.5	79.6-120			
1,1-Dichloroethene	45.9			ug/L	50.0		91.7	78.3-120			
1,1-Dichloropropene	48.3			ug/L	50.0		96.5	80-120			
1,2,3-Trichlorobenzene	42.1			ug/L	50.0		84.1	75-125			
1,2,3-Trichloropropane	50.0			ug/L	50.0		100	75.8-120			
1,2,4-Trichlorobenzene	42.5			ug/L	50.0		84.9	75-125			
1,2,4-Trimethylbenzene	50.4			ug/L	50.0		101	79.6-120			
1,2-Dibromo-3-chloropropane	46.3			ug/L	50.0		92.7	75-125			
1,2-Dibromoethane (EDB)	51.1			ug/L	50.0		102	80-120			
1,2-Dichlorobenzene	50.4			ug/L	50.0		101	75-125			
1,2-Dichloroethane	45.2			ug/L	50.0		90.4	80-120			
1,2-Dichloropropane	48.6			ug/L	50.0		97.3	80-120			
1,3,5-Trimethylbenzene	50.4			ug/L	50.0		101	77-120			
1,3-Dichlorobenzene	51.1			ug/L	50.0		102	75-125			
1,3-Dichloropropane	50.4			ug/L	50.0		101	80-120			
1,4-Dichlorobenzene	50.3			ug/L	50.0		101	75-125			
2,2-Dichloropropane	49.0			ug/L	50.0		98.0	60-137			
2-Butanone	50.5			ug/L	50.0		101	80-120			
2-Chlorotoluene	49.7			ug/L	50.0		99.4	75.9-120			
4-Chlorotoluene	49.2			ug/L	50.0		98.3	75.3-120			
Acetone	45.1			ug/L	50.0		90.2	80-120			
Allyl chloride	47.6			ug/L	50.0		95.1	80-120			
Benzene	49.7			ug/L	50.0		99.5	80-120			
Bromobenzene	50.3			ug/L	50.0		101	76.6-120			



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

Bromochloromethane	48.0			ug/L	50.0		95.9	80-120			
Bromodichloromethane	49.6			ug/L	50.0		99.3	80-120			
Bromoform	52.1			ug/L	50.0		104	80-120			
Bromomethane	51.6			ug/L	50.0		103	74.7-130			
Carbon tetrachloride	50.5			ug/L	50.0		101	80-120			
Chlorobenzene	51.2			ug/L	50.0		102	80-120			
Chloroethane	54.6			ug/L	50.0		109	75-130			
Chloroform	47.3			ug/L	50.0		94.5	80-120			
Chloromethane	50.1			ug/L	50.0		100	70-130			
cis-1,2-Dichloroethene	49.7			ug/L	50.0		99.3	80-120			
cis-1,3-Dichloropropene	49.8			ug/L	50.0		99.5	80-120			
Dibromochloromethane	51.5			ug/L	50.0		103	80-120			
Dibromomethane	48.4			ug/L	50.0		96.9	80-120			
Dichlorodifluoromethane	47.2			ug/L	50.0		94.5	70-130			
Dichlorofluoromethane	53.3			ug/L	50.0		107	80-120			
Ethyl ether	48.9			ug/L	50.0		97.8	80-120			
Ethylbenzene	49.6			ug/L	50.0		99.2	80-120			
Hexachlorobutadiene	44.1			ug/L	50.0		88.3	70-130			
Isopropylbenzene	51.9			ug/L	50.0		104	76.4-120			
m,p-Xylene	105			ug/L	100		105	80-120			
Methyl isobutyl ketone	51.6			ug/L	50.0		103	80-120			
Methyl tert-butyl ether	49.2			ug/L	50.0		98.3	80-120			
Methylene chloride	46.9			ug/L	50.0		93.8	75-122			
Naphthalene	41.5			ug/L	50.0		82.9	75-125			
n-Butylbenzene	48.8			ug/L	50.0		97.5	75-125			
n-Propylbenzene	50.0			ug/L	50.0		100	75-120			
o-Xylene	52.2			ug/L	50.0		104	80-120			
p-Isopropyltoluene	50.2			ug/L	50.0		100	75-125			
sec-Butylbenzene	49.9			ug/L	50.0		99.9	76.6-120			
Styrene	52.3			ug/L	50.0		105	80-120			
tert-Butylbenzene	51.0			ug/L	50.0		102	76.5-120			
Tetrachloroethene	50.1			ug/L	50.0		100	80-120			
Tetrahydrofuran	47.7			ug/L	50.0		95.4	80-120			
Toluene	51.3			ug/L	50.0		103	80-120			
trans-1,2-Dichloroethene	49.1			ug/L	50.0		98.2	80-120			
trans-1,3-Dichloropropene	49.9			ug/L	50.0		99.7	79.2-120			
Trichloroethene	48.5			ug/L	50.0		97.0	80-120			
Trichlorofluoromethane	52.4			ug/L	50.0		105	75-130			
Vinyl chloride	49.1			ug/L	50.0		98.1	75-130			



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

LCS (B6K2922-BS1)

Prepared & Analyzed: 11/29/16

Surrogate: 4-Bromofluorobenzene	47.9			ug/L	48.1		99.5	80-124			
Surrogate: Dibromofluoromethane	48.0			ug/L	48.1		99.9	77.1-123			
Surrogate: Toluene-d8	48.4			ug/L	48.1		101	78.1-125			

Matrix Spike (B6K2922-MS1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.4			ug/L	50.0	0.00	105	80-120			
1,1,1-Trichloroethane	49.6			ug/L	50.0	0.00	99.1	80-120			
1,1,2,2-Tetrachloroethane	49.4			ug/L	50.0	0.00	98.8	75-125			
1,1,2-Trichloroethane	51.7			ug/L	50.0	0.00	103	80-120			
1,1,2-Trichlorotrifluoroethane	49.8			ug/L	50.0	0.00	99.6	80-120			
1,1-Dichloroethane	48.9			ug/L	50.0	0.00	97.7	78.7-123			
1,1-Dichloroethene	46.8			ug/L	50.0	0.00	93.7	75.8-121			
1,1-Dichloropropene	49.4			ug/L	50.0	0.00	98.8	80-120			
1,2,3-Trichlorobenzene	46.6			ug/L	50.0	0.00	93.2	72.7-125			
1,2,3-Trichloropropane	49.9			ug/L	50.0	0.00	99.9	75-120			
1,2,4-Trichlorobenzene	47.2			ug/L	50.0	0.00	94.3	70-125			
1,2,4-Trimethylbenzene	51.1			ug/L	50.0	0.00	102	75-120			
1,2-Dibromo-3-chloropropane	46.8			ug/L	50.0	0.00	93.6	70-130			
1,2-Dibromoethane (EDB)	50.4			ug/L	50.0	0.00	101	80-120			
1,2-Dichlorobenzene	51.1			ug/L	50.0	0.00	102	75-125			
1,2-Dichloroethane	47.6			ug/L	50.0	0.00	95.3	80-120			
1,2-Dichloropropane	51.5			ug/L	50.0	0.00	103	80-120			
1,3,5-Trimethylbenzene	50.7			ug/L	50.0	0.00	101	75-120			
1,3-Dichlorobenzene	51.9			ug/L	50.0	0.00	104	75-125			
1,3-Dichloropropane	49.5			ug/L	50.0	0.00	99.0	80-120			
1,4-Dichlorobenzene	50.7			ug/L	50.0	0.00	101	75-125			
2,2-Dichloropropane	51.0			ug/L	50.0	0.00	102	60-135			
2-Butanone	45.2			ug/L	50.0	0.00	90.3	80-120			
2-Chlorotoluene	50.6			ug/L	50.0	0.00	101	75-120			
4-Chlorotoluene	49.6			ug/L	50.0	0.00	99.3	75-120			
Acetone	41.0			ug/L	50.0	0.00	82.0	80-120			
Allyl chloride	49.1			ug/L	50.0	0.00	98.2	80-120			
Benzene	51.2			ug/L	50.0	0.00	102	80-120			
Bromobenzene	50.7			ug/L	50.0	0.00	101	75-120			
Bromochloromethane	49.6			ug/L	50.0	0.00	99.1	78.9-122			
Bromodichloromethane	51.0			ug/L	50.0	0.00	102	80-120			
Bromoform	52.3			ug/L	50.0	0.00	105	80-120			
Bromomethane	50.5			ug/L	50.0	0.00	101	70-130			
Carbon tetrachloride	52.1			ug/L	50.0	0.00	104	80-120			
Chlorobenzene	53.0			ug/L	50.0	0.00	106	80-120			



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Matrix Spike (B6K2922-MS1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

Chloroethane	54.2			ug/L	50.0	0.00	108	75-130			
Chloroform	49.0			ug/L	50.0	0.00	98.1	80-120			
Chloromethane	50.1			ug/L	50.0	0.00	100	70-130			
cis-1,2-Dichloroethene	51.0			ug/L	50.0	0.00	102	80-120			
cis-1,3-Dichloropropene	51.2			ug/L	50.0	0.00	102	78.1-120			
Dibromochloromethane	50.9			ug/L	50.0	0.00	102	80-120			
Dibromomethane	50.0			ug/L	50.0	0.00	100	80-120			
Dichlorodifluoromethane	47.1			ug/L	50.0	0.00	94.3	70-130			
Dichlorofluoromethane	53.4			ug/L	50.0	0.00	107	80-120			
Ethyl ether	49.4			ug/L	50.0	0.00	98.7	80-120			
Ethylbenzene	50.5			ug/L	50.0	0.00	101	80-120			
Hexachlorobutadiene	50.9			ug/L	50.0	0.00	102	70-130			
Isopropylbenzene	50.6			ug/L	50.0	0.00	101	75-120			
m,p-Xylene	107			ug/L	100	0.00	107	80-120			
Methyl isobutyl ketone	50.8			ug/L	50.0	0.00	102	80-120			
Methyl tert-butyl ether	50.1			ug/L	50.0	0.00	100	80-120			
Methylene chloride	48.9			ug/L	50.0	0.00	97.8	75-125			
Naphthalene	45.4			ug/L	50.0	0.00	90.8	71.3-125			
n-Butylbenzene	50.0			ug/L	50.0	0.00	100	73.8-125			
n-Propylbenzene	50.7			ug/L	50.0	0.00	101	75-120			
o-Xylene	54.2			ug/L	50.0	0.00	108	80-120			
p-Isopropyltoluene	51.2			ug/L	50.0	0.00	102	75-125			
sec-Butylbenzene	51.2			ug/L	50.0	0.00	102	75-120			
Styrene	53.4			ug/L	50.0	0.00	107	80-120			
tert-Butylbenzene	51.7			ug/L	50.0	0.00	103	75-120			
Tetrachloroethene	51.3			ug/L	50.0	0.00	103	80-120			
Tetrahydrofuran	44.3			ug/L	50.0	0.00	88.5	80-120			
Toluene	53.0			ug/L	50.0	0.00	106	80-120			
trans-1,2-Dichloroethene	50.6			ug/L	50.0	0.00	101	80-120			
trans-1,3-Dichloropropene	52.0			ug/L	50.0	0.00	104	80-120			
Trichloroethene	51.3			ug/L	50.0	0.00	103	80-120			
Trichlorofluoromethane	53.6			ug/L	50.0	0.00	107	70-130			
Vinyl chloride	50.0			ug/L	50.0	0.00	100	74.8-130			
Surrogate: 4-Bromofluorobenzene	48.3			ug/L	48.1		100	80-124			
Surrogate: Dibromofluoromethane	48.8			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	49.0			ug/L	48.1		102	78.1-125			

Matrix Spike Dup (B6K2922-MSD1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,1,2-Tetrachloroethane	52.9			ug/L	50.0	0.00	106	80-120	0.952	20	
1,1,1-Trichloroethane	46.9			ug/L	50.0	0.00	93.9	80-120	5.44	20	

Legend Technical Services, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K2922 - EPA 5035 Soil (Purge and Trap)

Matrix Spike Dup (B6K2922-MSD1)

Source: 1605064-09

Prepared & Analyzed: 11/29/16

1,1,2,2-Tetrachloroethane	49.7			ug/L	50.0	0.00	99.3	75-125	0.503	20	
1,1,2-Trichloroethane	49.8			ug/L	50.0	0.00	99.7	80-120	3.58	20	
1,1,2-Trichlorotrifluoroethane	49.1			ug/L	50.0	0.00	98.3	80-120	1.34	20	
1,1-Dichloroethane	46.7			ug/L	50.0	0.00	93.5	78.7-123	4.46	20	
1,1-Dichloroethene	46.1			ug/L	50.0	0.00	92.2	75.8-121	1.57	20	
1,1-Dichloropropene	47.7			ug/L	50.0	0.00	95.4	80-120	3.53	20	
1,2,3-Trichlorobenzene	47.1			ug/L	50.0	0.00	94.2	72.7-125	1.09	20	
1,2,3-Trichloropropane	49.1			ug/L	50.0	0.00	98.3	75-120	1.62	20	
1,2,4-Trichlorobenzene	47.5			ug/L	50.0	0.00	94.9	70-125	0.623	20	
1,2,4-Trimethylbenzene	50.7			ug/L	50.0	0.00	101	75-120	0.885	20	
1,2-Dibromo-3-chloropropane	47.8			ug/L	50.0	0.00	95.6	70-130	2.13	20	
1,2-Dibromoethane (EDB)	52.7			ug/L	50.0	0.00	105	80-120	4.44	20	
1,2-Dichlorobenzene	51.2			ug/L	50.0	0.00	102	75-125	0.163	20	
1,2-Dichloroethane	47.2			ug/L	50.0	0.00	94.5	80-120	0.833	20	
1,2-Dichloropropane	50.0			ug/L	50.0	0.00	100	80-120	2.95	20	
1,3,5-Trimethylbenzene	50.9			ug/L	50.0	0.00	102	75-120	0.338	20	
1,3-Dichlorobenzene	50.4			ug/L	50.0	0.00	101	75-125	2.85	20	
1,3-Dichloropropane	50.8			ug/L	50.0	0.00	102	80-120	2.64	20	
1,4-Dichlorobenzene	50.1			ug/L	50.0	0.00	100	75-125	1.06	20	
2,2-Dichloropropane	47.5			ug/L	50.0	0.00	95.0	60-135	7.15	20	
2-Butanone	47.4			ug/L	50.0	0.00	94.8	80-120	4.81	20	
2-Chlorotoluene	51.0			ug/L	50.0	0.00	102	75-120	0.824	20	
4-Chlorotoluene	49.8			ug/L	50.0	0.00	99.5	75-120	0.268	20	
Acetone	41.1			ug/L	50.0	0.00	82.3	80-120	0.263	20	
Allyl chloride	47.8			ug/L	50.0	0.00	95.5	80-120	2.78	20	
Benzene	50.3			ug/L	50.0	0.00	101	80-120	1.76	20	
Bromobenzene	50.8			ug/L	50.0	0.00	102	75-120	0.221	20	
Bromochloromethane	47.8			ug/L	50.0	0.00	95.5	78.9-122	3.73	20	
Bromodichloromethane	49.1			ug/L	50.0	0.00	98.2	80-120	3.87	20	
Bromoform	52.3			ug/L	50.0	0.00	105	80-120	0.0759	20	
Bromomethane	49.6			ug/L	50.0	0.00	99.3	70-130	1.67	20	
Carbon tetrachloride	50.1			ug/L	50.0	0.00	100	80-120	3.86	20	
Chlorobenzene	53.1			ug/L	50.0	0.00	106	80-120	0.275	20	
Chloroethane	52.4			ug/L	50.0	0.00	105	75-130	3.38	20	
Chloroform	47.5			ug/L	50.0	0.00	95.0	80-120	3.16	20	
Chloromethane	47.7			ug/L	50.0	0.00	95.4	70-130	4.82	20	
cis-1,2-Dichloroethene	48.9			ug/L	50.0	0.00	97.7	80-120	4.36	20	
cis-1,3-Dichloropropene	50.9			ug/L	50.0	0.00	102	78.1-120	0.700	20	
Dibromochloromethane	52.6			ug/L	50.0	0.00	105	80-120	3.25	20	



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605064
Date Reported: 12/20/16

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2922 - EPA 5035 Soil (Purge and Trap)											
Matrix Spike Dup (B6K2922-MSD1)			Source: 1605064-09			Prepared & Analyzed: 11/29/16					
Dibromomethane	49.9			ug/L	50.0	0.00	99.8	80-120	0.153	20	
Dichlorodifluoromethane	45.5			ug/L	50.0	0.00	91.1	70-130	3.47	20	
Dichlorofluoromethane	52.2			ug/L	50.0	0.00	104	80-120	2.40	20	
Ethyl ether	48.8			ug/L	50.0	0.00	97.6	80-120	1.13	20	
Ethylbenzene	51.8			ug/L	50.0	0.00	104	80-120	2.43	20	
Hexachlorobutadiene	52.0			ug/L	50.0	0.00	104	70-130	1.99	20	
Isopropylbenzene	50.9			ug/L	50.0	0.00	102	75-120	0.669	20	
m,p-Xylene	108			ug/L	100	0.00	108	80-120	1.14	20	
Methyl isobutyl ketone	51.7			ug/L	50.0	0.00	103	80-120	1.67	20	
Methyl tert-butyl ether	48.6			ug/L	50.0	0.00	97.3	80-120	2.93	20	
Methylene chloride	47.6			ug/L	50.0	0.00	95.1	75-125	2.80	20	
Naphthalene	45.8			ug/L	50.0	0.00	91.6	71.3-125	0.948	20	
n-Butylbenzene	50.4			ug/L	50.0	0.00	101	73.8-125	0.656	20	
n-Propylbenzene	51.0			ug/L	50.0	0.00	102	75-120	0.628	20	
o-Xylene	54.7			ug/L	50.0	0.00	109	80-120	0.940	20	
p-Isopropyltoluene	50.2			ug/L	50.0	0.00	100	75-125	1.94	20	
sec-Butylbenzene	51.1			ug/L	50.0	0.00	102	75-120	0.235	20	
Styrene	54.3			ug/L	50.0	0.00	109	80-120	1.55	20	
tert-Butylbenzene	51.2			ug/L	50.0	0.00	102	75-120	0.970	20	
Tetrachloroethene	51.9			ug/L	50.0	0.00	104	80-120	1.08	20	
Tetrahydrofuran	47.3			ug/L	50.0	0.00	94.5	80-120	6.56	20	
Toluene	52.0			ug/L	50.0	0.00	104	80-120	1.87	20	
trans-1,2-Dichloroethene	48.2			ug/L	50.0	0.00	96.3	80-120	4.96	20	
trans-1,3-Dichloropropene	51.3			ug/L	50.0	0.00	103	80-120	1.32	20	
Trichloroethene	50.6			ug/L	50.0	0.00	101	80-120	1.40	20	
Trichlorofluoromethane	52.2			ug/L	50.0	0.00	104	70-130	2.51	20	
Vinyl chloride	48.1			ug/L	50.0	0.00	96.2	74.8-130	3.88	20	
Surrogate: 4-Bromofluorobenzene	49.3			ug/L	48.1		102	80-124			
Surrogate: Dibromofluoromethane	48.7			ug/L	48.1		101	77.1-123			
Surrogate: Toluene-d8	48.8			ug/L	48.1		101	78.1-125			



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American Engineering Testing, Inc.
 550 Cleveland Ave N
 St. Paul, MN 55114

Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605064
 Date Reported: 12/20/16

WET CHEMISTRY - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K2824 - General Prep											
Duplicate (B6K2824-DUP1)			Source: 1605064-05			Prepared & Analyzed: 11/28/16					
pH	8.53			Std. Units		8.51			0.235	20	
Reference (B6K2824-SRM1)											
Reference (B6K2824-SRM1)			Prepared & Analyzed: 11/28/16								
pH	6.01			Std. Units	6.00		100	98-102			
Reference (B6K2824-SRM2)											
Reference (B6K2824-SRM2)			Prepared & Analyzed: 11/28/16								
pH	6.01			Std. Units	6.00		100	98-102			



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605064 Date Reported: 12/20/16
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Notes and Definitions

W-03	The initial sample weight was less than 8.0 grams.
T5	Laboratory not licensed for this parameter.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
L1	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit; Equivalent to the method LOD (Limit of Detection)
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)



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No 21440

PAGE 1 OF 2

OTHER ADDRESS: PHONE: 1005004

AMERICAN ENGINEERING TESTING, INC.
 St. Paul Office
 500 Cleveland Ave. N.
 St. Paul, MN 55114
 651-658-9001
 651-659-1379 (fax)

AET PROJECT NUMBER: 03-06069
 PROJECT NAME/LOCATION: West Side Flats / St. Paul, MN
 AET PROJECT MANAGER: Trey Howard
 SEND REPORT TO: Trey Howard
 SAMPLES BY (PRINT): Sake, Dalber & Sachs by staff
 SAMPLER SIGNATURE: [Signature]

REQUESTED TURNAROUND TIME: NORMAL RUSH
 DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS		PRESERVATIVES				FIELD FILTERED Y/N	ANALYSIS		REMARKS
					UNPRESERVED	PRESERVED	MACH	HCL	H2SO4	HNO3		PRO	GR0	
1	ATP-1 (0'-2')	11/6/05	0855	Soil	5	4						X	X	Fill
2	ATP-2 (2'-4')	11/15	1015		5	4						X	X	Fill
3	ATP-2 (2'-14')	11/28	1128		5	4						X	X	Fill
4	ATP-2 (14'-16')	11/30	1130		5	4						X	X	Natural
5	ATP-3 (6'-8')	11/55	1155		5	4						X	X	Fill
6	ATP-3 (10'-12')	12/15	1215		5	4						X	X	Natural
7	ATP-4 (4'-6')	12/16	1216		5	4						X	X	Fill
8	ATP-4 (8'-14')	1/20	1120		5	4						X	X	Natural
9	ATP-5 (10'-12')	1/30	1130		5	4						X	X	Fill
10	ATP-5 (12'-14')	1/30	1130		5	4						X	X	Natural
11	ATP-6 (0'-2')	1/30	1130		5	4						X	X	Fill
12	ATP-6 (8'-10')	1/30	1130		5	4						X	X	Natural

NOTE: Hold bottles for unchained parameters until further notice. 3/10/06

RELINQUISHED BY/AFFILIATION: [Signatures]
 ACCEPTED BY/AFFILIATION: [Signatures]

DATE: 11-17-06, 11-17-06, 11-17-06
 TIME: 14:40, 17:05



88 Empire Drive
 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

OTHER
 ADDRESS: _____
 PHONE: _____
 No. 21439
 PAGE 2 OF 2

St. Paul Office
 550 Cleveland Ave. N.
 St. Paul, MN 55114
 651-659-9001
 651-659-1378 (fax)

AMERICAN ENGINEERING TESTING, INC.
 AET PROJECT NUMBER: 03-06069
 PROJECT NAME/LOCATION: West Side Flats / St. Paul, MN
 AET PROJECT MANAGER: Trey Howard
 SEND REPORT TO: Trey Howard
 SAMPLED BY (PRINT): Jake Dilbeck & Jacob Leggett
 SAMPLER SIGNATURE: Jake Dilbeck & Jacob Leggett
 REQUESTED TURNAROUND TIME: NORMAL RUSH
 DATE NEEDED BY: _____

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES					FIELD FILTERED Y/N	ANALYSIS								REMARKS				
						UNPRESERVED	MCHO	HCL	H ₂ O ₂	HNO ₃		PRO	PRO	VOLs	8 PCRA Metals	PCBs	SVOCs	PAHs	TCLP		Fill	13 Priority Pollutant Metals		
13	ATP-7 (2-7)	11/14	1530	soil	5	4						X	X	X	X	X	X	X	X	X	X	X	Fill	
14	ATP-7 (6-8)	11/15	1530		5	4						X	X	X	X	X	X	X	X	X	X	X	Natural	
15	ATP-8 (0-2)	11/15	1630		5	4						X	X	X	X	X	X	X	X	X	X	X	Fill	
16	ATP-8 (8-16)	11/15	1640		5	4						X	X	X	X	X	X	X	X	X	X	X	Natural	
17	ATP-Dep-soil				5	4						X	X	X	X	X	X	X	X	X	X	X		
18	Trip Blank				1							X	X	X	X	X	X	X	X	X	X	X		

ITEM NUMBER: 13-18
 RELINQUISHED BY/AFFILIATION: Jake Dilbeck/AET
 ACCEPTED BY/AFFILIATION: Trey Howard/AET
 DATE: 11-17-16
 TIME: 6:40
 11/19/17 05
 No.

NOTE: Hold bottles for unchecked parameters until further notice.

**REVIEWED**

By Trey Howard at 11:40 am, Jan 09, 2017

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

December 06, 2016

Mr. Trey Howard
American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114Work Order Number: 1605039
RE: 03-06069

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16. If you have any questions concerning this report, please feel free to contact me.

Samples will not be retained by LEGEND once the analyses are completed.

All internal quality assurance met the method requirements unless otherwise noted in the case narrative. Additionally, all samples were received in acceptable condition unless otherwise noted.

For the tentatively identified compounds (TICs), a computer generated library search was done comparing the spectra of the unknown compounds with spectra contained in the NIST (NBS) and Wiley reference libraries. A visual comparison was made of each unknown compound and the best library match. Quantitation was based on the response of the nearest internal standard. Unidentified peaks were quantified using 100 as the molecular weight. Both the identification of specific compounds and the quantities given should be considered approximations.

Chromatograms are included for samples containing detections.

MDH Accreditation #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

A handwritten signature in black ink, appearing to read "BACH PHAM", is written over a horizontal line.

Bach Pham
Client Manager II
bpham@legend-group.com



88 Empire Drive
 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AGP-1 (SV-1)	1605039-01	Air	11/16/16 15:05	11/17/16 17:05
AGP-2 (SV-2)	1605039-02	Air	11/16/16 13:56	11/17/16 17:05
AGP-6 (SV-3)	1605039-03	Air	11/17/16 15:12	11/17/16 17:05
DUP-AIR-1	1605039-04	Air	11/16/16 00:00	11/17/16 17:05

Case Narrative:

Hydrocarbon patterns were observed in samples AGP-1 (SV-1), AGP-2 (SV-2), AGP-6 (SV-3), and DUP-AIR-1 between the retention times of 16 and 28 minutes, 20 and 28 minutes, 22 and 28 minutes, and 22 and 28 minutes respectively.



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (SV-1) (1605039-01) Air Received:11/17/16 17:05 Sampled:11/16/16 15:05										
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.13	ug/m ³	1	B6K1824	11/18/16	11/18/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.17	ug/m ³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.15	ug/m ³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.095	ug/m ³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.10	ug/m ³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.54	ug/m ³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m ³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.22	ug/m ³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.16	ug/m ³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.19	ug/m ³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	56	5.5	1.6	ug/m ³	5	"	"	11/19/16	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.16	ug/m ³	1	"	"	11/18/16	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.14	ug/m ³	1	"	"	"	"	
2-Butanone (78-93-3)	39	1.5	0.16	ug/m ³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m ³	1	"	"	"	"	
Acetone (67-64-1)	150	6.0	1.7	ug/m ³	5	"	"	11/19/16	"	
Benzene (71-43-2)	10	0.64	0.046	ug/m ³	1	"	"	11/18/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.13	ug/m ³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.12	ug/m ³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.25	ug/m ³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.30	ug/m ³	1	"	"	"	"	
Carbon disulfide (75-15-0)	8.2	1.6	0.061	ug/m ³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.17	ug/m ³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.10	ug/m ³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.14	ug/m ³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.13	ug/m ³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.29	ug/m ³	1	"	"	"	"	
Cyclohexane (110-82-7)	24	1.7	0.060	ug/m ³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m ³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.26	ug/m ³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.25	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (SV-1) (1605039-01) Air Received:11/17/16 17:05 Sampled:11/16/16 15:05										
Ethanol (64-17-5)	16	0.94	0.13	ug/m ³	1	B6K1824	11/18/16	11/18/16	TO-15	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m ³	1	"	"	"	"	
Ethylbenzene (100-41-4)	<0.87	0.87	0.10	ug/m ³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.72	ug/m ³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	4.7	1.2	0.10	ug/m ³	1	"	"	"	"	
m,p-Xylene (179601-23-1)	2.2	1.7	0.21	ug/m ³	1	"	"	"	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.18	ug/m ³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.15	ug/m ³	1	"	"	"	"	
Methylene chloride (75-09-2)	3.0	1.7	0.22	ug/m ³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.35	ug/m ³	1	"	"	"	"	
n-Heptane (142-82-5)	6.7	2.0	0.068	ug/m ³	1	"	"	"	"	
n-Hexane (110-54-3)	13	1.8	0.084	ug/m ³	1	"	"	"	"	
o-Xylene (95-47-6)	0.95	0.87	0.087	ug/m ³	1	"	"	"	"	
Propylene (115-07-1)	470	17	1.5	ug/m ³	20	"	"	11/19/16	"	
Styrene (100-42-5)	<2.1	2.1	0.092	ug/m ³	1	"	"	11/18/16	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.10	ug/m ³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.12	ug/m ³	1	"	"	"	"	
Toluene (108-88-3)	7.6	0.75	0.047	ug/m ³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.13	ug/m ³	1	"	"	"	"	
Trichloroethene (79-01-6)	33	1.1	0.064	ug/m ³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.20	ug/m ³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m ³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.20	ug/m ³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.12	ug/m ³	1	"	"	"	"	

AGP-2 (SV-2) (1605039-02) Air Received:11/17/16 17:05 Sampled:11/16/16 13:56

1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.13	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.17	ug/m ³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.15	ug/m ³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.095	ug/m ³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.10	ug/m ³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.54	ug/m ³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	<1.0	1.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (SV-2) (1605039-02) Air Received:11/17/16 17:05 Sampled:11/16/16 13:56										
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.22	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.16	ug/m ³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.19	ug/m ³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	19	1.1	0.32	ug/m ³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.16	ug/m ³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.14	ug/m ³	1	"	"	"	"	
2-Butanone (78-93-3)	22	1.5	0.16	ug/m ³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m ³	1	"	"	"	"	
Acetone (67-64-1)	68	6.0	1.7	ug/m ³	5	"	"	11/19/16	"	
Benzene (71-43-2)	16	0.64	0.046	ug/m ³	1	"	"	11/19/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.13	ug/m ³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.12	ug/m ³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.25	ug/m ³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.30	ug/m ³	1	"	"	"	"	
Carbon disulfide (75-15-0)	13	1.6	0.061	ug/m ³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	5.2	3.1	0.17	ug/m ³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.10	ug/m ³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.14	ug/m ³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.13	ug/m ³	1	"	"	"	"	
Chloromethane (74-87-3)	3.1	1.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.29	ug/m ³	1	"	"	"	"	
Cyclohexane (110-82-7)	4.3	1.7	0.060	ug/m ³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m ³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	9.1	2.5	0.26	ug/m ³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.25	ug/m ³	1	"	"	"	"	
Ethanol (64-17-5)	9.4	0.94	0.13	ug/m ³	1	"	"	"	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m ³	1	"	"	"	"	
Ethylbenzene (100-41-4)	2.2	0.87	0.10	ug/m ³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.72	ug/m ³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	5.3	1.2	0.10	ug/m ³	1	"	"	"	"	
m,p-Xylene (179601-23-1)	2.8	1.7	0.21	ug/m ³	1	"	"	"	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.18	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-2 (SV-2) (1605039-02) Air Received:11/17/16 17:05 Sampled:11/16/16 13:56										
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.15	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
Methylene chloride (75-09-2)	<1.7	1.7	0.22	ug/m ³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.35	ug/m ³	1	"	"	"	"	
n-Heptane (142-82-5)	6.9	2.0	0.068	ug/m ³	1	"	"	"	"	
n-Hexane (110-54-3)	11	1.8	0.084	ug/m ³	1	"	"	"	"	
o-Xylene (95-47-6)	1.1	0.87	0.087	ug/m ³	1	"	"	"	"	
Propylene (115-07-1)	100	4.3	0.38	ug/m ³	5	"	"	11/19/16	"	
Styrene (100-42-5)	<2.1	2.1	0.092	ug/m ³	1	"	"	11/19/16	"	
Tetrachloroethene (127-18-4)	<3.4	3.4	0.10	ug/m ³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.12	ug/m ³	1	"	"	"	"	
Toluene (108-88-3)	12	0.75	0.047	ug/m ³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.13	ug/m ³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.064	ug/m ³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.20	ug/m ³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m ³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.20	ug/m ³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.12	ug/m ³	1	"	"	"	"	

AGP-6 (SV-3) (1605039-03) Air Received:11/17/16 17:05 Sampled:11/17/16 15:12

1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.13	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.17	ug/m ³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.15	ug/m ³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.095	ug/m ³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.10	ug/m ³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.54	ug/m ³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.4	1.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m ³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.22	ug/m ³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.16	ug/m ³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.19	ug/m ³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	14	1.1	0.32	ug/m ³	1	"	"	"	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.16	ug/m ³	1	"	"	"	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.14	ug/m ³	1	"	"	"	"	
2-Butanone (78-93-3)	47	1.5	0.16	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (SV-3) (1605039-03) Air Received:11/17/16 17:05 Sampled:11/17/16 15:12										
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
Acetone (67-64-1)	190	12	3.4	ug/m ³	10	"	"	11/20/16	"	
Benzene (71-43-2)	11	0.64	0.046	ug/m ³	1	"	"	11/19/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.13	ug/m ³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.12	ug/m ³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.25	ug/m ³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.30	ug/m ³	1	"	"	"	"	
Carbon disulfide (75-15-0)	9.3	1.6	0.061	ug/m ³	1	"	"	"	"	
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.17	ug/m ³	1	"	"	"	"	
Chlorobenzene (108-90-7)	<2.3	2.3	0.10	ug/m ³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.14	ug/m ³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.13	ug/m ³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.29	ug/m ³	1	"	"	"	"	
Cyclohexane (110-82-7)	2.7	1.7	0.060	ug/m ³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m ³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	<2.5	2.5	0.26	ug/m ³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.25	ug/m ³	1	"	"	"	"	
Ethanol (64-17-5)	<0.94	0.94	0.13	ug/m ³	1	"	"	"	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m ³	1	"	"	"	"	
Ethylbenzene (100-41-4)	1.8	0.87	0.10	ug/m ³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.72	ug/m ³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	2.9	1.2	0.10	ug/m ³	1	"	"	"	"	
m,p-Xylene (179601-23-1)	4.0	1.7	0.21	ug/m ³	1	"	"	"	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.18	ug/m ³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.15	ug/m ³	1	"	"	"	"	
Methylene chloride (75-09-2)	<1.7	1.7	0.22	ug/m ³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.35	ug/m ³	1	"	"	"	"	
n-Heptane (142-82-5)	4.7	2.0	0.068	ug/m ³	1	"	"	"	"	
n-Hexane (110-54-3)	23	1.8	0.084	ug/m ³	1	"	"	"	"	
o-Xylene (95-47-6)	1.4	0.87	0.087	ug/m ³	1	"	"	"	"	
Propylene (115-07-1)	130	8.6	0.75	ug/m ³	10	"	"	11/20/16	"	
Styrene (100-42-5)	<2.1	2.1	0.092	ug/m ³	1	"	"	11/19/16	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-6 (SV-3) (1605039-03) Air Received:11/17/16 17:05 Sampled:11/17/16 15:12										
Tetrachloroethene (127-18-4)	9.0	3.4	0.10	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.12	ug/m ³	1	"	"	"	"	
Toluene (108-88-3)	13	0.75	0.047	ug/m ³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.13	ug/m ³	1	"	"	"	"	
Trichloroethene (79-01-6)	<1.1	1.1	0.064	ug/m ³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.20	ug/m ³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m ³	1	"	"	"	"	
Vinyl acetate (108-05-4)	<1.8	1.8	0.20	ug/m ³	1	"	"	"	"	
Vinyl chloride (75-01-4)	<0.51	0.51	0.12	ug/m ³	1	"	"	"	"	
DUP-AIR-1 (1605039-04) Air Received:11/17/16 17:05 Sampled:11/16/16 00:00										
1,1,1-Trichloroethane (71-55-6)	<2.7	2.7	0.13	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
1,1,2,2-Tetrachloroethane (79-34-5)	<3.4	3.4	0.17	ug/m ³	1	"	"	"	"	
1,1,2-Trichloroethane (79-00-5)	<2.7	2.7	0.15	ug/m ³	1	"	"	"	"	
1,1-Dichloroethane (75-34-3)	<2.0	2.0	0.095	ug/m ³	1	"	"	"	"	
1,1-Dichloroethene (75-35-4)	<2.0	2.0	0.10	ug/m ³	1	"	"	"	"	
1,2,4-Trichlorobenzene (120-82-1)	<3.7	3.7	0.54	ug/m ³	1	"	"	"	"	
1,2,4-Trimethylbenzene (95-63-6)	1.4	1.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dibromoethane (106-93-4)	<3.8	3.8	0.16	ug/m ³	1	"	"	"	"	
1,2-Dichlorobenzene (95-50-1)	<3.0	3.0	0.22	ug/m ³	1	"	"	"	"	
1,2-Dichloroethane (107-06-2)	<2.0	2.0	0.17	ug/m ³	1	"	"	"	"	
1,2-Dichloropropane (78-87-5)	<2.3	2.3	0.16	ug/m ³	1	"	"	"	"	
1,3,5-Trimethylbenzene (108-67-8)	<1.0	1.0	0.19	ug/m ³	1	"	"	"	"	
1,3-Butadiene (106-99-0)	53	5.5	1.6	ug/m ³	5	"	"	11/20/16	"	
1,3-Dichlorobenzene (541-73-1)	<3.0	3.0	0.16	ug/m ³	1	"	"	11/19/16	"	
1,4-Dichlorobenzene (106-46-7)	<3.0	3.0	0.14	ug/m ³	1	"	"	"	"	
2-Butanone (78-93-3)	50	1.5	0.16	ug/m ³	1	"	"	"	"	
4-Ethyltoluene (622-96-8)	<2.5	2.5	0.11	ug/m ³	1	"	"	"	"	
Acetone (67-64-1)	180	6.0	1.7	ug/m ³	5	"	"	11/20/16	"	
Benzene (71-43-2)	18	0.64	0.046	ug/m ³	1	"	"	11/19/16	"	
Benzyl chloride (100-44-7)	<2.6	2.6	0.13	ug/m ³	1	"	"	"	"	
Bromodichloromethane (75-27-4)	<3.4	3.4	0.12	ug/m ³	1	"	"	"	"	
Bromoform (75-25-2)	<5.2	5.2	0.25	ug/m ³	1	"	"	"	"	
Bromomethane (74-83-9)	<1.9	1.9	0.30	ug/m ³	1	"	"	"	"	
Carbon disulfide (75-15-0)	20	1.6	0.061	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP-AIR-1 (1605039-04) Air Received:11/17/16 17:05 Sampled:11/16/16 00:00										
Carbon tetrachloride (56-23-5)	<3.1	3.1	0.17	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
Chlorobenzene (108-90-7)	<2.3	2.3	0.10	ug/m ³	1	"	"	"	"	
Chloroethane (75-00-3)	<1.3	1.3	0.14	ug/m ³	1	"	"	"	"	
Chloroform (67-66-3)	<2.4	2.4	0.13	ug/m ³	1	"	"	"	"	
Chloromethane (74-87-3)	<1.0	1.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,2-Dichloroethene (156-59-2)	<2.0	2.0	0.13	ug/m ³	1	"	"	"	"	
cis-1,3-Dichloropropene (10061-01-5)	<2.3	2.3	0.29	ug/m ³	1	"	"	"	"	
Cyclohexane (110-82-7)	9.4	1.7	0.060	ug/m ³	1	"	"	"	"	
Dibromochloromethane (124-48-1)	<4.3	4.3	0.16	ug/m ³	1	"	"	"	"	
Dichlorodifluoromethane (75-71-8)	2.7	2.5	0.26	ug/m ³	1	"	"	"	"	
Dichlorotetrafluoroethane (76-14-2)	<3.5	3.5	0.25	ug/m ³	1	"	"	"	"	
Ethanol (64-17-5)	13	0.94	0.13	ug/m ³	1	"	"	"	"	
Ethyl acetate (141-78-6)	<1.8	1.8	0.11	ug/m ³	1	"	"	"	"	
Ethylbenzene (100-41-4)	1.7	0.87	0.10	ug/m ³	1	"	"	"	"	
Hexachlorobutadiene (87-68-3)	<5.3	5.3	0.72	ug/m ³	1	"	"	"	"	
Isopropyl alcohol (67-63-0)	5.5	1.2	0.10	ug/m ³	1	"	"	"	"	
m,p-Xylene (179601-23-1)	4.8	1.7	0.21	ug/m ³	1	"	"	"	"	
Methyl butyl ketone (591-78-6)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
Methyl isobutyl ketone (108-10-1)	<2.0	2.0	0.18	ug/m ³	1	"	"	"	"	
Methyl tert-butyl ether (1634-04-4)	<1.8	1.8	0.15	ug/m ³	1	"	"	"	"	
Methylene chloride (75-09-2)	21	1.7	0.22	ug/m ³	1	"	"	"	"	
Naphthalene (91-20-3)	<2.6	2.6	0.35	ug/m ³	1	"	"	"	"	
n-Heptane (142-82-5)	17	2.0	0.068	ug/m ³	1	"	"	"	"	
n-Hexane (110-54-3)	77	9.0	0.42	ug/m ³	5	"	"	11/20/16	"	
o-Xylene (95-47-6)	1.5	0.87	0.087	ug/m ³	1	"	"	11/19/16	"	
Propylene (115-07-1)	590	17	1.5	ug/m ³	20	"	"	11/20/16	"	
Styrene (100-42-5)	<2.1	2.1	0.092	ug/m ³	1	"	"	11/19/16	"	
Tetrachloroethene (127-18-4)	6.3	3.4	0.10	ug/m ³	1	"	"	"	"	
Tetrahydrofuran (109-99-9)	<1.5	1.5	0.12	ug/m ³	1	"	"	"	"	
Toluene (108-88-3)	18	0.75	0.047	ug/m ³	1	"	"	"	"	
trans-1,2-Dichloroethene (156-60-5)	<2.0	2.0	0.12	ug/m ³	1	"	"	"	"	
trans-1,3-Dichloropropene (10061-02-6)	<2.3	2.3	0.13	ug/m ³	1	"	"	"	"	
Trichloroethene (79-01-6)	1.4	1.1	0.064	ug/m ³	1	"	"	"	"	
Trichlorofluoromethane (75-69-4)	<2.8	2.8	0.20	ug/m ³	1	"	"	"	"	
Trichlorotrifluoroethane (76-13-1)	<3.8	3.8	0.17	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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VOC - AIR
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP-AIR-1 (1605039-04) Air Received:11/17/16 17:05 Sampled:11/16/16 00:00										
Vinyl acetate (108-05-4)	<1.8	1.8	0.20	ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	
Vinyl chloride (75-01-4)	<0.51	0.51	0.12	ug/m ³	1	"	"	"	"	



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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TENTATIVELY IDENTIFIED COMPOUNDS
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AGP-1 (SV-1) (1605039-01) Air Received:11/17/16 17:05 Sampled:11/16/16 15:05										
1-Decene (872-05-9)	120			ug/m ³	1	B6K1824	11/18/16	11/18/16	TO-15	T4
1-Propene, 2-methyl- (115-11-7)	130			ug/m ³	1	"	"	"	"	T4
Butane (106-97-8)	110			ug/m ³	1	"	"	"	"	T4
Cyclohexane, 1,1,2,3-tetramethyl- (6783-92-2)	180			ug/m ³	1	"	"	"	"	T4
Cyclohexane, 1,1,2-trimethyl- (7094-26-0)	140			ug/m ³	1	"	"	"	"	T4
Cyclohexane, 1,1,3-trimethyl- (3073-66-3)	430			ug/m ³	1	"	"	"	"	T4
Cyclohexane, 1,1-dimethyl- (NA)	160			ug/m ³	1	"	"	"	"	T4
Cyclohexane, methyl- (108-87-2)	460			ug/m ³	1	"	"	"	"	T4
Cyclopentane, 1,2-dimethyl- (2452-99-5)	160			ug/m ³	1	"	"	"	"	T4
Decane (124-18-5)	180			ug/m ³	1	"	"	"	"	T4
AGP-2 (SV-2) (1605039-02) Air Received:11/17/16 17:05 Sampled:11/16/16 13:56										
1-Decene (872-05-9)	150			ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	T4
Cyclopentane, 1,3-dimethyl- (2453-00-1)	100			ug/m ³	1	"	"	"	"	T4
Decane (124-18-5)	240			ug/m ³	1	"	"	"	"	T4
Nonane, 3-methyl- (5911-04-6)	130			ug/m ³	1	"	"	"	"	T4
Nonane, 3-methylene- (51655-64-2)	110			ug/m ³	1	"	"	"	"	T4
Octane (111-65-9)	71			ug/m ³	1	"	"	"	"	T4
Pentane, 3-ethyl-2-methyl- (609-26-7)	100			ug/m ³	1	"	"	"	"	T4
Propyne (74-99-7)	30			ug/m ³	1	"	"	"	"	T4
Sulfurous acid, butyl nonyl ester (1000309-17-6)	170			ug/m ³	1	"	"	"	"	T4
Undecane, 2,7-dimethyl- (17301-24-5)	140			ug/m ³	1	"	"	"	"	T4
AGP-6 (SV-3) (1605039-03) Air Received:11/17/16 17:05 Sampled:11/17/16 15:12										
1-Decene (872-05-9)	84			ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	T4
1-Propene, 2-methyl- (115-11-7)	44			ug/m ³	1	"	"	"	"	T4
Acetaldehyde (75-07-0)	35			ug/m ³	1	"	"	"	"	T4
Butane (106-97-8)	37			ug/m ³	1	"	"	"	"	T4
Cyclopentane, 1,3-dimethyl- (2453-00-1)	84			ug/m ³	1	"	"	"	"	T4
Decane (124-18-5)	140			ug/m ³	1	"	"	"	"	T4
Hexane, 2,3-dimethyl- (584-94-1)	43			ug/m ³	1	"	"	"	"	T4
Nonane, 3-methyl- (5911-04-6)	60			ug/m ³	1	"	"	"	"	T4
Propyne (74-99-7)	30			ug/m ³	1	"	"	"	"	T4
Undecane, 3,7-dimethyl- (17301-29-0)	97			ug/m ³	1	"	"	"	"	T4
DUP-AIR-1 (1605039-04) Air Received:11/17/16 17:05 Sampled:11/16/16 00:00										



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American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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TENTATIVELY IDENTIFIED COMPOUNDS
Legend Technical Services, Inc.

Analyte (CAS#)	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP-AIR-1 (1605039-04) Air Received:11/17/16 17:05 Sampled:11/16/16 00:00										
1-Decene (872-05-9)	77			ug/m ³	1	B6K1824	11/18/16	11/19/16	TO-15	T4
1-Propene, 2-methyl- (115-11-7)	91			ug/m ³	1	"	"	"	"	T4
Butane (106-97-8)	130			ug/m ³	1	"	"	"	"	T4
Cyclopentane, 1,3-dimethyl- (2453-00-1)	79			ug/m ³	1	"	"	"	"	T4
Decane (124-18-5)	130			ug/m ³	1	"	"	"	"	T4
Hexane, 2,3-dimethyl- (584-94-1)	59			ug/m ³	1	"	"	"	"	T4
Isobutane (75-28-5)	72			ug/m ³	1	"	"	"	"	T4
Nonane, 3-methylene- (51655-64-2)	58			ug/m ³	1	"	"	"	"	T4
Propyne (74-99-7)	71			ug/m ³	1	"	"	"	"	T4
Undecane, 2,7-dimethyl- (17301-24-5)	99			ug/m ³	1	"	"	"	"	T4



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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605039
Date Reported: 12/06/16

VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K1824 - TO-15

Blank (B6K1824-BLK1)

Prepared & Analyzed: 11/18/16

1,1,1-Trichloroethane	< 2.7	2.7	0.13	ug/m ³							
1,1,2,2-Tetrachloroethane	< 3.4	3.4	0.17	ug/m ³							
1,1,2-Trichloroethane	< 2.7	2.7	0.15	ug/m ³							
1,1-Dichloroethane	< 2.0	2.0	0.095	ug/m ³							
1,1-Dichloroethene	< 2.0	2.0	0.10	ug/m ³							
1,2,4-Trichlorobenzene	< 3.7	3.7	0.54	ug/m ³							
1,2,4-Trimethylbenzene	< 1.0	1.0	0.17	ug/m ³							
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m ³							
1,2-Dichlorobenzene	< 3.0	3.0	0.22	ug/m ³							
1,2-Dichloroethane	< 2.0	2.0	0.17	ug/m ³							
1,2-Dichloropropane	< 2.3	2.3	0.16	ug/m ³							
1,3,5-Trimethylbenzene	< 1.0	1.0	0.19	ug/m ³							
1,3-Butadiene	< 1.1	1.1	0.32	ug/m ³							
1,3-Dichlorobenzene	< 3.0	3.0	0.16	ug/m ³							
1,4-Dichlorobenzene	< 3.0	3.0	0.14	ug/m ³							
2-Butanone	< 1.5	1.5	0.16	ug/m ³							
4-Ethyltoluene	< 2.5	2.5	0.11	ug/m ³							
Acetone	< 1.2	1.2	0.34	ug/m ³							
Benzene	< 0.64	0.64	0.046	ug/m ³							
Benzyl chloride	< 2.6	2.6	0.13	ug/m ³							
Bromodichloromethane	< 3.4	3.4	0.12	ug/m ³							
Bromoform	< 5.2	5.2	0.25	ug/m ³							
Bromomethane	< 1.9	1.9	0.30	ug/m ³							
Carbon disulfide	< 1.6	1.6	0.061	ug/m ³							
Carbon tetrachloride	< 3.1	3.1	0.17	ug/m ³							
Chlorobenzene	< 2.3	2.3	0.10	ug/m ³							
Chloroethane	< 1.3	1.3	0.14	ug/m ³							
Chloroform	< 2.4	2.4	0.13	ug/m ³							
Chloromethane	< 1.0	1.0	0.13	ug/m ³							
cis-1,2-Dichloroethene	< 2.0	2.0	0.13	ug/m ³							
cis-1,3-Dichloropropene	< 2.3	2.3	0.29	ug/m ³							
Cyclohexane	< 1.7	1.7	0.060	ug/m ³							
Dibromochloromethane	< 4.3	4.3	0.16	ug/m ³							
Dichlorodifluoromethane	< 2.5	2.5	0.26	ug/m ³							
Dichlorotetrafluoroethane	< 3.5	3.5	0.25	ug/m ³							
Ethanol	< 0.94	0.94	0.13	ug/m ³							
Ethyl acetate	< 1.8	1.8	0.11	ug/m ³							
Ethylbenzene	< 0.87	0.87	0.10	ug/m ³							
Hexachlorobutadiene	< 5.3	5.3	0.72	ug/m ³							
Isopropyl alcohol	< 1.2	1.2	0.10	ug/m ³							

Legend Technical Services, Inc.

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American Engineering Testing, Inc.
 550 Cleveland Ave N
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Project: 03-06069
 Project Number: 03-06069
 Project Manager: Mr. Trey Howard

Work Order #: 1605039
 Date Reported: 12/06/16

VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K1824 - TO-15

Blank (B6K1824-BLK1)

Prepared & Analyzed: 11/18/16

m,p-Xylene	< 1.7	1.7	0.21	ug/m ³							
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m ³							
Methyl isobutyl ketone	< 2.0	2.0	0.18	ug/m ³							
Methyl tert-butyl ether	< 1.8	1.8	0.15	ug/m ³							
Methylene chloride	< 1.7	1.7	0.22	ug/m ³							
Naphthalene	< 2.6	2.6	0.35	ug/m ³							
n-Heptane	< 2.0	2.0	0.068	ug/m ³							
n-Hexane	< 1.8	1.8	0.084	ug/m ³							
o-Xylene	< 0.87	0.87	0.087	ug/m ³							
Propylene	< 0.86	0.86	0.075	ug/m ³							
Styrene	< 2.1	2.1	0.092	ug/m ³							
Tetrachloroethene	< 3.4	3.4	0.10	ug/m ³							
Tetrahydrofuran	< 1.5	1.5	0.12	ug/m ³							
Toluene	< 0.75	0.75	0.047	ug/m ³							
trans-1,2-Dichloroethene	< 2.0	2.0	0.12	ug/m ³							
trans-1,3-Dichloropropene	< 2.3	2.3	0.13	ug/m ³							
Trichloroethene	< 1.1	1.1	0.064	ug/m ³							
Trichlorofluoromethane	< 2.8	2.8	0.20	ug/m ³							
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m ³							
Vinyl acetate	< 1.8	1.8	0.20	ug/m ³							
Vinyl chloride	< 0.51	0.51	0.12	ug/m ³							

LCS (B6K1824-BS1)

Prepared & Analyzed: 11/18/16

1,1,1-Trichloroethane	50.1	2.7	0.13	ug/m ³	54.6	<2.7	91.8	70-130			
1,1,2,2-Tetrachloroethane	60.2	3.4	0.17	ug/m ³	68.6	<3.4	87.7	70-130			
1,1,2-Trichloroethane	51.8	2.7	0.15	ug/m ³	54.6	<2.7	94.9	70-130			
1,1-Dichloroethane	39.2	2.0	0.095	ug/m ³	40.5	<2.0	96.9	70-130			
1,1-Dichloroethene	38.9	2.0	0.10	ug/m ³	39.6	<2.0	98.1	70-130			
1,2,4-Trichlorobenzene	65.3	3.7	0.54	ug/m ³	74.2	<3.7	88.0	70-130			
1,2,4-Trimethylbenzene	42.9	1.0	0.17	ug/m ³	49.2	<1.0	87.2	70-130			
1,2-Dibromoethane	72.5	3.8	0.16	ug/m ³	76.8	<3.8	94.4	70-130			
1,2-Dichlorobenzene	52.5	3.0	0.22	ug/m ³	60.1	<3.0	87.4	70-130			
1,2-Dichloroethane	37.5	2.0	0.17	ug/m ³	40.5	<2.0	92.6	70-130			
1,2-Dichloropropane	43.6	2.3	0.16	ug/m ³	46.2	<2.3	94.3	70-130			
1,3,5-Trimethylbenzene	41.6	1.0	0.19	ug/m ³	49.2	<1.0	84.7	70-130			
1,3-Butadiene	20.9	1.1	0.32	ug/m ³	22.1	<1.1	94.3	70-130			
1,3-Dichlorobenzene	53.8	3.0	0.16	ug/m ³	60.1	<3.0	89.4	70-130			
1,4-Dichlorobenzene	53.5	3.0	0.14	ug/m ³	60.1	<3.0	89.0	70-130			
2-Butanone	27.8	1.5	0.16	ug/m ³	29.5	<1.5	94.4	70-130			
4-Ethyltoluene	44.5	2.5	0.11	ug/m ³	49.2	<2.5	90.6	70-130			



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American Engineering Testing, Inc.
550 Cleveland Ave N
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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605039
Date Reported: 12/06/16

VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K1824 - TO-15											
LCS (B6K1824-BS1)											
						Prepared & Analyzed: 11/18/16					
Acetone	26.1	1.2	0.34	ug/m ³	23.8	<1.2	110	70-130			
Benzene	30.4	0.64	0.046	ug/m ³	31.9	<0.64	95.0	70-130			
Benzyl chloride	48.9	2.6	0.13	ug/m ³	51.8	<2.6	94.4	70-130			
Bromodichloromethane	62.6	3.4	0.12	ug/m ³	67.0	<3.4	93.4	70-130			
Bromoform	89.7	5.2	0.25	ug/m ³	103	<5.2	86.8	70-130			
Bromomethane	35.7	1.9	0.30	ug/m ³	38.8	<1.9	92.0	70-130			
Carbon disulfide	30.3	1.6	0.061	ug/m ³	31.1	<1.6	97.3	70-130			
Carbon tetrachloride	57.6	3.1	0.17	ug/m ³	62.9	<3.1	91.6	70-130			
Chlorobenzene	43.5	2.3	0.10	ug/m ³	46.0	<2.3	94.6	70-130			
Chloroethane	24.6	1.3	0.14	ug/m ³	26.4	<1.3	93.2	70-130			
Chloroform	46.9	2.4	0.13	ug/m ³	48.8	<2.4	96.0	70-130			
Chloromethane	20.1	1.0	0.13	ug/m ³	20.6	<1.0	97.1	70-130			
cis-1,2-Dichloroethene	39.0	2.0	0.13	ug/m ³	39.6	<2.0	98.3	70-130			
cis-1,3-Dichloropropene	42.4	2.3	0.29	ug/m ³	45.4	<2.3	93.4	70-130			
Cyclohexane	34.1	1.7	0.060	ug/m ³	34.4	<1.7	99.1	70-130			
Dibromochloromethane	78.7	4.3	0.16	ug/m ³	85.2	<4.3	92.4	70-130			
Dichlorodifluoromethane	47.2	2.5	0.26	ug/m ³	49.5	<2.5	95.5	70-130			
Dichlorotetrafluoroethane	69.9	3.5	0.25	ug/m ³	69.9	<3.5	100	70-130			
Ethanol	18.8	0.94	0.13	ug/m ³	18.8	<0.94	99.9	70-130			
Ethyl acetate	34.0	1.8	0.11	ug/m ³	36.0	<1.8	94.3	70-130			
Ethylbenzene	40.8	0.87	0.10	ug/m ³	43.4	<0.87	93.9	70-130			
Hexachlorobutadiene	94.3	5.3	0.72	ug/m ³	107	<5.3	88.4	70-130			
Isopropyl alcohol	24.8	1.2	0.10	ug/m ³	24.6	<1.2	101	70-130			
m,p-Xylene	78.6	1.7	0.21	ug/m ³	86.8	<1.7	90.5	70-130			
Methyl butyl ketone	41.4	2.0	0.12	ug/m ³	41.0	<2.0	101	70-130			
Methyl isobutyl ketone	38.3	2.0	0.18	ug/m ³	41.0	<2.0	93.6	70-130			
Methyl tert-butyl ether	34.2	1.8	0.15	ug/m ³	36.1	<1.8	95.0	70-130			
Methylene chloride	33.0	1.7	0.22	ug/m ³	34.7	<1.7	95.1	70-130			
Naphthalene	46.8	2.6	0.35	ug/m ³	55.0	<2.6	85.0	70-130			
n-Heptane	40.1	2.0	0.068	ug/m ³	41.0	<2.0	97.8	70-130			
n-Hexane	35.1	1.8	0.084	ug/m ³	35.2	<1.8	99.5	70-130			
o-Xylene	39.5	0.87	0.087	ug/m ³	43.4	<0.87	90.9	70-130			
Propylene	16.5	0.86	0.075	ug/m ³	17.2	<0.86	96.0	70-130			
Styrene	39.3	2.1	0.092	ug/m ³	42.6	<2.1	92.2	70-130			
Tetrachloroethene	60.6	3.4	0.10	ug/m ³	67.8	<3.4	89.3	70-130			
Tetrahydrofuran	28.4	1.5	0.12	ug/m ³	29.5	<1.5	96.2	70-130			
Toluene	35.7	0.75	0.047	ug/m ³	37.7	<0.75	94.7	70-130			
trans-1,2-Dichloroethene	39.5	2.0	0.12	ug/m ³	39.6	<2.0	99.5	70-130			
trans-1,3-Dichloropropene	42.4	2.3	0.13	ug/m ³	45.4	<2.3	93.5	70-130			
Trichloroethene	49.9	1.1	0.064	ug/m ³	53.7	<1.1	92.8	70-130			

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Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605039
Date Reported: 12/06/16

VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K1824 - TO-15

LCS (B6K1824-BS1)

Prepared & Analyzed: 11/18/16

Trichlorofluoromethane	53.7	2.8	0.20	ug/m ³	56.2	<2.8	95.5	70-130			
Trichlorotrifluoroethane	74.1	3.8	0.17	ug/m ³	76.6	<3.8	96.7	70-130			
Vinyl acetate	40.5	1.8	0.20	ug/m ³	35.2	<1.8	115	70-130			
Vinyl chloride	24.5	0.51	0.12	ug/m ³	25.6	<0.51	96.0	70-130			

Duplicate (B6K1824-DUP1)

Source: 1605032-01

Prepared & Analyzed: 11/18/16

1,1,1-Trichloroethane	< 2.7	2.7	0.13	ug/m ³		<2.7		NA	25	
1,1,1,2-Tetrachloroethane	< 3.4	3.4	0.17	ug/m ³		<3.4		NA	25	
1,1,2-Trichloroethane	< 2.7	2.7	0.15	ug/m ³		<2.7		NA	25	
1,1-Dichloroethane	< 2.0	2.0	0.095	ug/m ³		<2.0		NA	25	
1,1-Dichloroethene	< 2.0	2.0	0.10	ug/m ³		<2.0		NA	25	
1,2,4-Trichlorobenzene	< 3.7	3.7	0.54	ug/m ³		<3.7		NA	25	
1,2,4-Trimethylbenzene	14.5	1.0	0.17	ug/m ³		13.1		10.1	25	
1,2-Dibromoethane	< 3.8	3.8	0.16	ug/m ³		<3.8		NA	25	
1,2-Dichlorobenzene	< 3.0	3.0	0.22	ug/m ³		<3.0		NA	25	
1,2-Dichloroethane	< 2.0	2.0	0.17	ug/m ³		<2.0		NA	25	
1,2-Dichloropropane	< 2.3	2.3	0.16	ug/m ³		<2.3		NA	25	
1,3,5-Trimethylbenzene	3.92	1.0	0.19	ug/m ³		3.69		5.91	25	
1,3-Butadiene	< 1.1	1.1	0.32	ug/m ³		<1.1		NA	25	
1,3-Dichlorobenzene	< 3.0	3.0	0.16	ug/m ³		<3.0		NA	25	
1,4-Dichlorobenzene	< 3.0	3.0	0.14	ug/m ³		<3.0		NA	25	
2-Butanone	6.20	1.5	0.16	ug/m ³		7.18		14.6	25	
4-Ethyltoluene	3.77	2.5	0.11	ug/m ³		3.68		2.50	25	
Acetone	119	7.2	2.0	ug/m ³		118		0.209	25	
Benzene	3.12	0.64	0.046	ug/m ³		3.01		3.62	25	
Benzyl chloride	< 2.6	2.6	0.13	ug/m ³		<2.6		NA	25	
Bromodichloromethane	< 3.4	3.4	0.12	ug/m ³		<3.4		NA	25	
Bromoform	< 5.2	5.2	0.25	ug/m ³		<5.2		NA	25	
Bromomethane	< 1.9	1.9	0.30	ug/m ³		<1.9		NA	25	
Carbon disulfide	< 1.6	1.6	0.061	ug/m ³		<1.6		NA	25	
Carbon tetrachloride	< 3.1	3.1	0.17	ug/m ³		<3.1		NA	25	
Chlorobenzene	< 2.3	2.3	0.10	ug/m ³		<2.3		NA	25	
Chloroethane	< 1.3	1.3	0.14	ug/m ³		<1.3		NA	25	
Chloroform	< 2.4	2.4	0.13	ug/m ³		<2.4		NA	25	
Chloromethane	< 1.0	1.0	0.13	ug/m ³		<1.0		NA	25	
cis-1,2-Dichloroethene	< 2.0	2.0	0.13	ug/m ³		<2.0		NA	25	
cis-1,3-Dichloropropene	< 2.3	2.3	0.29	ug/m ³		<2.3		NA	25	
Cyclohexane	4.00	1.7	0.060	ug/m ³		3.85		3.73	25	
Dibromochloromethane	< 4.3	4.3	0.16	ug/m ³		<4.3		NA	25	
Dichlorodifluoromethane	2.93	2.5	0.26	ug/m ³		3.56		19.3	25	



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Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605039
Date Reported: 12/06/16

VOC - AIR - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B6K1824 - TO-15											
Duplicate (B6K1824-DUP1)		Source: 1605032-01				Prepared & Analyzed: 11/18/16					
Dichlorotetrafluoroethane	< 3.5	3.5	0.25	ug/m ³		<3.5			NA	25	
Ethanol	125	5.6	0.78	ug/m ³		127			1.69	25	
Ethyl acetate	< 1.8	1.8	0.11	ug/m ³		<1.8			NA	25	
Ethylbenzene	10.7	0.87	0.10	ug/m ³		10.3			2.99	25	
Hexachlorobutadiene	< 5.3	5.3	0.72	ug/m ³		<5.3			NA	25	
Isopropyl alcohol	65.9	7.2	0.60	ug/m ³		67.6			2.40	25	
m,p-Xylene	31.7	1.7	0.21	ug/m ³		30.5			3.81	25	
Methyl butyl ketone	< 2.0	2.0	0.12	ug/m ³		<2.0			NA	25	
Methyl isobutyl ketone	< 2.0	2.0	0.18	ug/m ³		<2.0			NA	25	
Methyl tert-butyl ether	< 1.8	1.8	0.15	ug/m ³		<1.8			NA	25	
Methylene chloride	31.6	1.7	0.22	ug/m ³		32.1			1.34	25	
Naphthalene	5.23	2.6	0.35	ug/m ³		4.78			8.96	25	
n-Heptane	4.76	2.0	0.068	ug/m ³		4.62			2.88	25	
n-Hexane	9.41	1.8	0.084	ug/m ³		9.16			2.68	25	
o-Xylene	11.3	0.87	0.087	ug/m ³		10.8			4.43	25	
Propylene	< 0.86	0.86	0.075	ug/m ³		<0.86			NA	25	
Styrene	< 2.1	2.1	0.092	ug/m ³		<2.1			NA	25	
Tetrachloroethene	18.9	3.4	0.10	ug/m ³		17.3			9.18	25	
Tetrahydrofuran	2.63	1.5	0.12	ug/m ³		2.41			8.93	25	
Toluene	74.0	0.75	0.047	ug/m ³		71.7			3.14	25	
trans-1,2-Dichloroethene	< 2.0	2.0	0.12	ug/m ³		<2.0			NA	25	
trans-1,3-Dichloropropene	< 2.3	2.3	0.13	ug/m ³		<2.3			NA	25	
Trichloroethene	< 1.1	1.1	0.064	ug/m ³		<1.1			NA	25	
Trichlorofluoromethane	< 2.8	2.8	0.20	ug/m ³		<2.8			NA	25	
Trichlorotrifluoroethane	< 3.8	3.8	0.17	ug/m ³		<3.8			NA	25	
Vinyl acetate	< 1.8	1.8	0.20	ug/m ³		<1.8			NA	25	
Vinyl chloride	< 0.51	0.51	0.12	ug/m ³		<0.51			NA	25	



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 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

American Engineering Testing, Inc. 550 Cleveland Ave N St. Paul, MN 55114	Project: 03-06069 Project Number: 03-06069 Project Manager: Mr. Trey Howard	Work Order #: 1605039 Date Reported: 12/06/16
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TENTATIVELY IDENTIFIED COMPOUNDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B6K1824 - TO-15

Blank (B6K1824-BLK1)

Prepared & Analyzed: 11/18/16

Tentatively Identified Compounds	ND			ug/m ³							A-02
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American Engineering Testing, Inc.
550 Cleveland Ave N
St. Paul, MN 55114

Project: 03-06069
Project Number: 03-06069
Project Manager: Mr. Trey Howard

Work Order #: 1605039
Date Reported: 12/06/16

Notes and Definitions

T4 Tentatively identified compound. Concentration is estimated and based on the closest internal standard.
A-02 No tentatively identified compounds (TICs) were present above 5.0 ppbv.
< Less than value listed
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)



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No 21141

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OTHER ADDRESS: PHONE: 1005039

St. Paul Office
 550 Cleveland Ave. N.
 St. Paul, MN 55114
 651-659-9001
 651-659-1379 (fax)



AET PROJECT NUMBER: 03-06069
 PROJECT NAME/LOCATION: West Side Flats St. Paul, MN
 AET PROJECT MANAGER: Terry Howard
 SEND REPORT TO: Terry Howard
 SAMPLED BY (PRINT): Andy Nelson
 SAMPLER SIGNATURE: Andy Nelson

REQUESTED TURNAROUND TIME: NORMAL RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE
1	AGP-1 (SV-1)	11-11-06		AIR
2	AGP-2 (SV-2)	11-11-06		
3	AGP-6 (SV-3)	11-11-06		
4	DUP-AR-1			

NO. OF CONTAINERS	PRESERVATIVES	FIELD FILTERED Y/N	ANALYSIS				REMARKS		
			CANISTER #	FLOW CONTROL #	START PRESSURE (PSI)	START TIME			
1	UNPRESERVED		70-15	30	0	14:50	11	1.0	01/1
1	HNO ₃		3760	27-30	0	15:45	11	0.7	02
1	H ₂ O		70418	35-30	0	14:58	13	1.4	03
1	HCL		0385	50-30	0	15:15	13	1	04

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1-4	Richard [Signature]	[Signature]	11/14/06	12:00

NOTE:

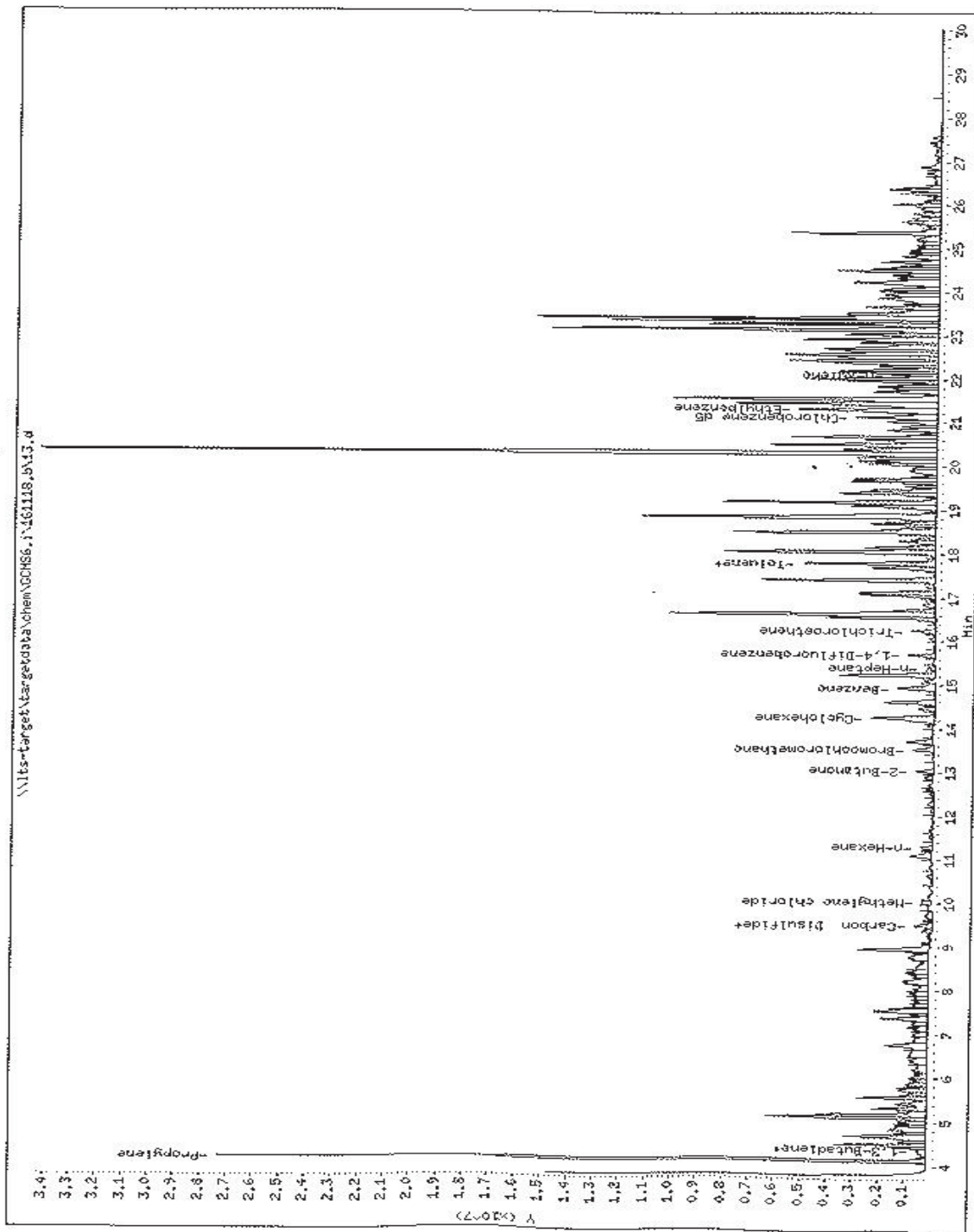


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Data File: \\lts-target\targetdata\chem\GCKS6.i\161118.b\13.d
 Date : 18-Nov-2016 23:14
 Client ID: MCP-1 (SV-1)
 Sample Info: 1605039-01
 Purge Volume: 1.0
 Column Phase:

Instrument: GCMS6.i
 Operator: SLH
 Column diameter: 0.20





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Data File: \\165-target\target\data\chem\GCHS6_1\161118_1\15.d

Date: 19-NOV-2016 01:09

Client ID: AGP-2 (SV-2)

Sample Info: 1608039-02

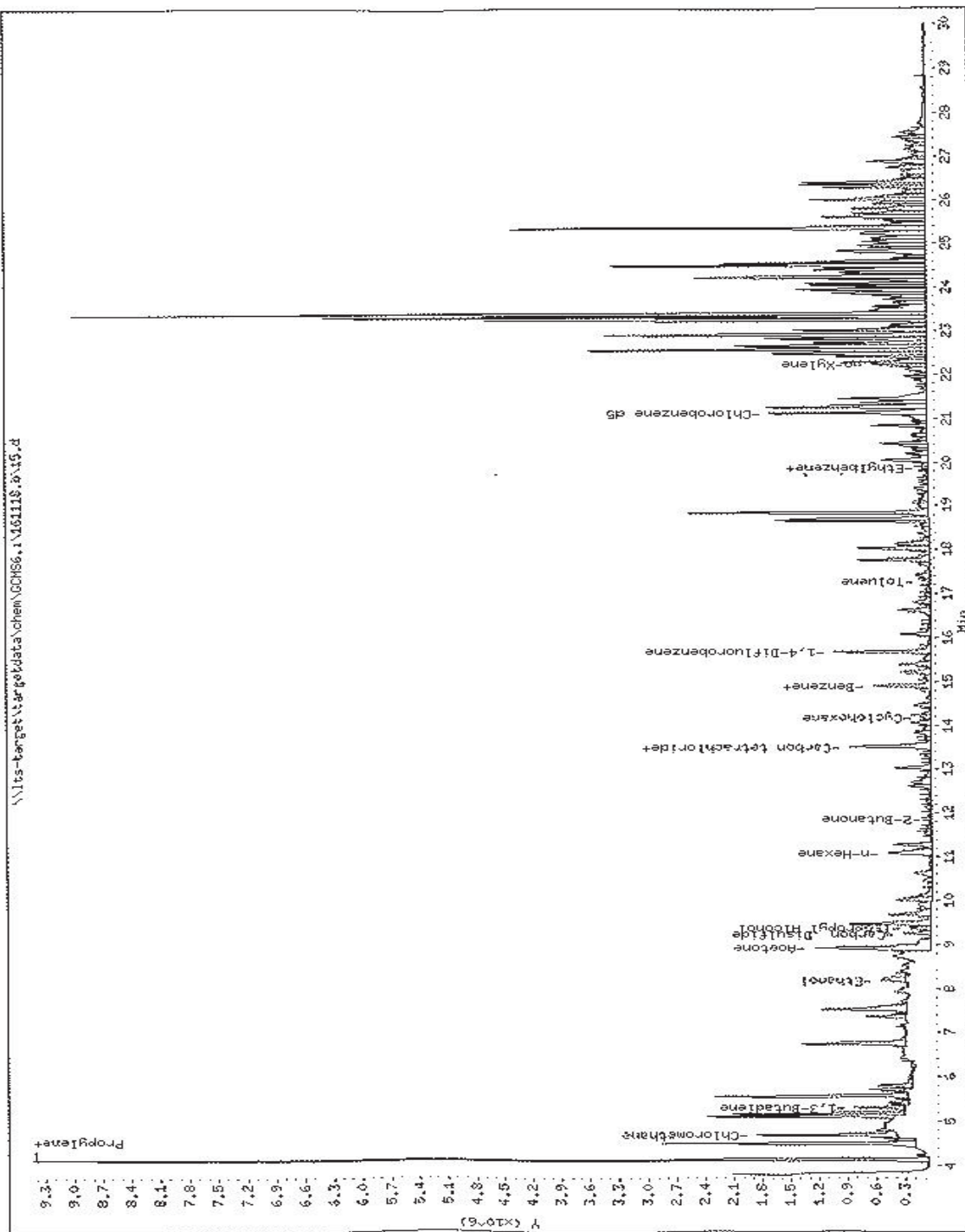
Purge Volume: 1.0

Column phase:

Instrument: GCHS6.i

Operator: Suk

Column diameter: 0.20



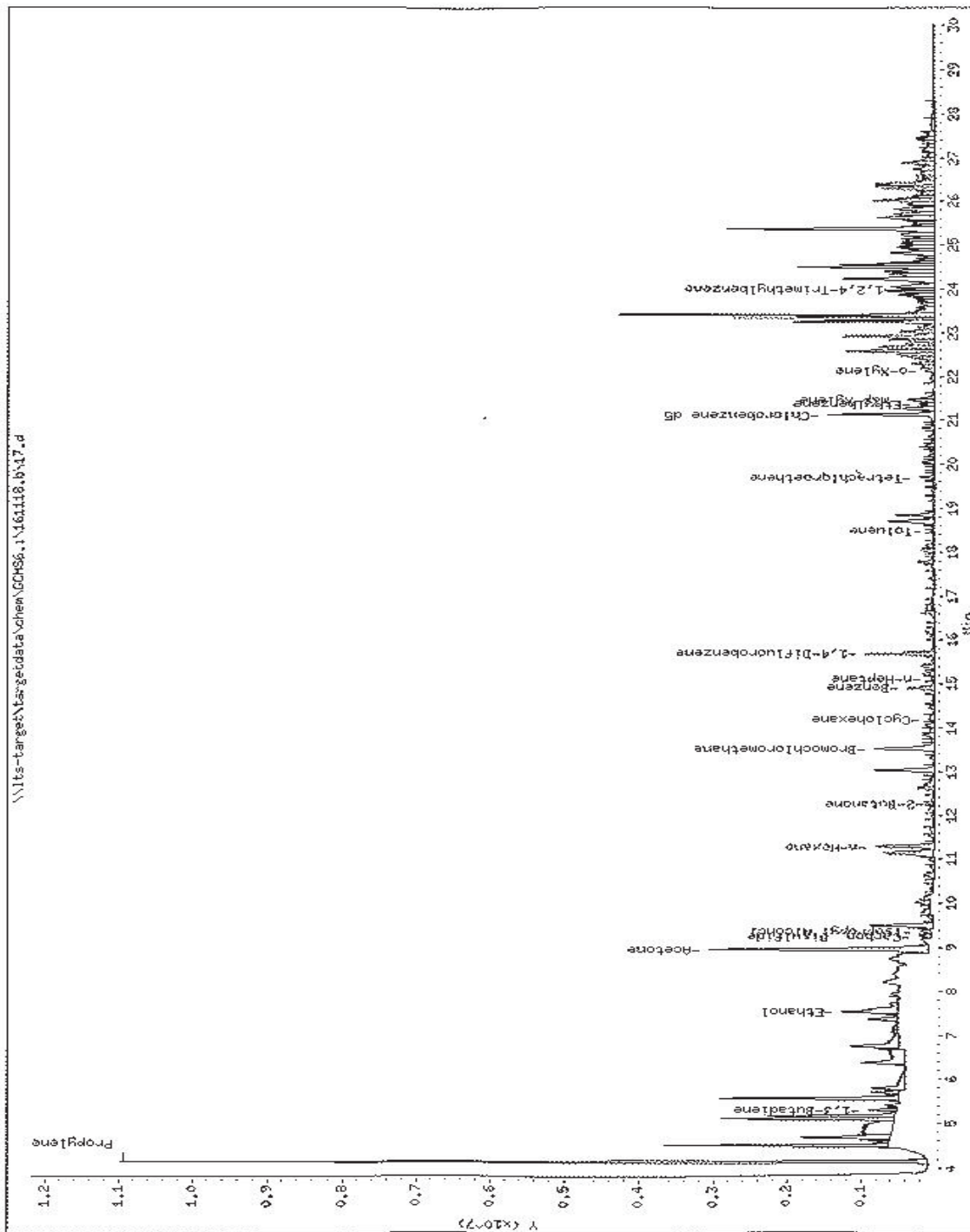


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Data File: \\fs-target\target\data\schem\GCHS6.1\161118.v17.d
 Date: 12-02-2016 03:04
 Client ID: AGP-6 (SV-3)
 Sample Info: 1605039-03
 Purge Volume: 1.0
 Column phase:

Instrument: GCMS6.i
 Operator: SLH
 Column diameter: 0.20





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Data File: \\lts-target\data\data\chem\GCMS6.1\161118.b\19.d
 Date: 19-NOV-2016 04:59
 Client ID: Dup-411-1
 Sample info: 1605039-04
 Purge Volume: 1.0
 Column phase:
 Instrument: GCMS6.1
 Operator: SLH
 Column diameter: 0.20

