



ENVIRONMENTAL WORKS

November 6, 2019

EWI Project #191807

Associated Wholesale Grocers
ATTN: Mr. Joel Riggs, P.E.
Executive Director Sales & Service
5000 Kansas Avenue
Kansas City, Kansas 66106

**RE: Limited Phase II Environmental Site Assessment (ESA)
Price Chopper Property
2107 South 4th Street
Leavenworth, Kansas**

**ACCEPTED INTO
ADMINISTRATIVE
RECORD FILE**

**Not Approved or
Reviewed by KDHE**

Dear Mr. Riggs:

Please find the electronic copy of the above-referenced report with associated invoice to follow. Should you have any questions or concerns regarding this report, please do not hesitate to contact me at (816) 285-8432.

Thank you for this opportunity to assist you with your environmental needs.

Sincerely,
ENVIRONMENTAL WORKS, INC.

Nick Godfrey,
Program Manager – Environmental Due Diligence

Enclosures: One Electronic Report



ENVIRONMENTAL WORKS

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

**PRICE CHOPPER PROPERTY
2107 SOUTH 4TH STREET
LEAVENWORTH, LEAVENWORTH COUNTY, KANSAS**

Prepared For:
Associated Wholesale Grocers
Kansas City, Kansas

Prepared By:
Environmental Works, Inc.
Kansas City, Missouri

EWI Project #191807, A1

November 6, 2019

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION	3
2.1	Objectives	3
3.0	PROJECT BACKGROUND	4
3.1	Site Description and History	4
3.2	Previous Assessments Summary	5
3.3	Geology.....	7
4.0	INVESTIGATION ACTIVITIES	8
4.1	Hydraulic Probing and Sampling Summary	8
4.2	Soil Observations and Sampling	9
4.3	Groundwater Sampling	10
4.4	Soil Vapor Sampling	11
4.5	Equipment Decontamination, Abandonment, and Investigation-Derived Waste (IDW) Management.....	11
5.0	INVESTIGATION RESULTS	13
5.1	Soil Analytical Results.....	13
5.2	Groundwater Analytical Results.....	15
5.3	Soil Vapor Analytical Results	17
5.4	Vapor Encroachment Condition	17
6.0	FINDINGS AND CONCLUSIONS	19
7.0	LIMITATIONS OF STUDY	21
8.0	REFERENCES.....	22

List of Tables

Table 1.0	Summary of Soil Analytical Results – TPHs
Table 2.0	Summary of Soil Analytical Results – PCBs
Table 3.0	Summary of Soil Analytical Results – RCRA Metals
Table 4.0	Summary of Groundwater Analytical Results – VOCs, TPHs and SVOCs
Table 5.0	Summary of Groundwater Analytical Results – RCRA Metals – Dissolved
Table 6.0	Summary of Soil Gas Sample Results

List of Figures

Figure 1.0	Site Location Map
Figure 2.0	Sample Locations Map

List of Appendices

Appendix A	Soil Boring Logs
Appendix B	Photographic Documentation
Appendix C	Laboratory Analytical Results and Chain of Custody

1.0 EXECUTIVE SUMMARY

Environmental Works, Inc. (EWI) performed a Limited Phase II Environmental Site Assessment (ESA) for the Price Chopper Property located at 2107 South 4th Street, Leavenworth, Leavenworth County, Kansas (subject property or Site).

This Limited Phase II ESA was completed to evaluate the Site for subsurface impacts as a result of the American Society of Testing and Materials (ASTM)-defined recognized environmental conditions (RECs) and vapor encroachment conditions (VECs) identified during the September 2019 Phase I ESA. The following were determined to be RECs and VECs to the subject property: 1) operation of an automotive salvage yard within close proximity of the Site; 2) operation of a landfill prior to environmental regulation within close proximity of the Site; 3) the proximity and history of non-compliance of the north adjoining former Leavenworth City Garage; and 4) the proximity and history of non-compliance and dumping of solvents on the north adjoining Great Western Manufacturing Company. The Limited Phase II ESA investigation involved the installation of seven (7) soil borings and five (5) temporary groundwater monitoring wells and the collection of eight (8) soil and five (5) groundwater samples for laboratory analysis. Additionally, three (3) temporary soil gas wells were installed and three (3) soil gas samples were collected for laboratory analysis. The potential contaminants of concern (COC) evaluated during this assessment included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH)-low-range hydrocarbons (LRH), TPH-high-range hydrocarbons (HRH) and mid-range hydrocarbons (MRH), and Resource Conservation and Recovery Act (RCRA) 8 metals.

The analytical results of this Limited Phase II ESA were compared to the Kansas Department of Health and Environment (KDHE) Tier 2 Risk-Based Standards for Kansas (RSK) values for both the Residential and Non-Residential scenarios. Metals results were also compared to the US Geological Survey (USGS) National Geochemical Survey average values for Leavenworth County, Kansas. In the absence of established KDHE Tier 2 RSKs for polychlorinated biphenyls (PCB) in soil, and volatile organic compounds in soil gas, EWI utilized the US Environmental Protection Agency (EPA) Regional Screening Levels for comparison to soil and Vapor Intrusion Screening Level (VISL) Target Sub-Slab and Near-Source Soil Gas Concentrations for Residential and Non-Residential (Commercial or Industrial) for comparison to soil gas analytical results.

Soil

Soil sample SB-5 (4-5) collected at the Site contained PCB-1254 (Aroclor 1254) at a concentration above the US EPA RSL for Residential Soil, but below the RSL for Industrial Soil. The soil sample also contained

lead at a concentration above the KDHE Tier 2 Residential RSK, but below the Non-Residential RSK. Soil samples collected at the Site also contained concentrations of TPHs and RCRA metals above the laboratory reporting limits, but below their respective KDHE Tier 2 RSKs.

Groundwater

Groundwater sample MW-5 contained a concentration of TPH-HRH above the KDHE Tier 2 Residential and Non-Residential RSKs. Groundwater sample MW-7 contained SVOC 2,6-dinitrotoluene at a concentration above the KDHE Tier 2 Residential and Non-Residential RSKs. Dissolved RCRA metal arsenic was detected in samples MW-1 and MW-5 at concentrations above the KDHE Tier 2 Residential and Non-Residential RSKs. Groundwater samples MW-1, MW-5 and MW-7 contained concentrations of TPH-MRH at concentrations above the KDHE Tier 2 Residential RSK, but below the Non-Residential RSK. Groundwater samples collected at the Site contained additional concentrations of VOC, SVOC, TPH, and RCRA metals; however, the concentrations were below their respective KDHE Tier 2 Residential and Non-Residential RSKs. PCBs were not detected above the laboratory reporting limit in groundwater samples collected at the Site.

Soil Gas

Soil gas samples collected at the Site contained VOC chloroform at concentrations above the EPA VISL Target Concentration for Residential Exterior Soil Gas, but below the Commercial comparison value. Several additional VOCs were detected in the soil gas samples at concentrations above the laboratory reporting limits, but below their respective EPA VISL comparison values.

Based on the concentrations of COCs observed in the soil gas samples collected at the Site, vapor intrusion does not appear to pose a risk to the current land use of the subject property.

2.0 INTRODUCTION

EWI was retained by Associated Wholesale Grocers (Client) to conduct a Limited Phase II ESA of the Price Chopper Property located at 2107 South 4th Street, Leavenworth, Leavenworth County, Kansas (see Figure 1.0). The Limited Phase II ESA was conducted in accordance with generally-accepted industry standards and American Society for Testing and Materials International (ASTM) E 1903-11 standard.

2.1 Objectives

The primary objective of this Limited Phase II ESA was to confirm or deny the presence of subsurface impacts at the Site as a result of the REC and VEC identified in September 2019 Phase I ESA. The following were determined to be RECs and VECs to the subject property: 1) operation of an automotive salvage yard within close proximity of the Site; 2) operation of a landfill prior to environmental regulation within close proximity of the Site; 3) the proximity and history of non-compliance of the north adjoining former Leavenworth City Garage; and 4) the proximity and history of non-compliance and dumping of solvents on the north adjoining Great Western Manufacturing Company. The Limited Phase II ESA involved the installation of temporary soil gas wells, soil borings, and temporary groundwater monitoring wells for collection of soil gas, soil, and groundwater samples for laboratory analysis. The potential COC for evaluation during this assessment were determined to be VOCs, SVOCs, PCBs, TPHs, and RCRA metals.

3.0 PROJECT BACKGROUND

3.1 Site Description and History

The subject property is 4.0 acres of commercial land located in an area of commercial and residential development. The Site is developed with an approximately 50,000 square foot (ft²) commercial structure developed in approximately 1991 and currently occupied by a grocery store, Price Chopper, which includes a barber shop, pharmacy, bakery, florist, and deli. A vacant tenant space is present on the southwest corner. The remaining areas of the Site are improved with asphalt-paved parking lots and associated landscaping.

According to historical documentation, the subject property was developed with various structures, likely residential, with railroad tracks intersecting the Site from north to south as early as 1910. The first available aerial photograph in 1947 indicates the Site was developed with various residential structures, railroad tracks, and Fivemile Creek was visible in the northeast corner. In 1966, the Site remains similar to previous years, except a portion of the east adjoining salvage yard is present on the east portion of the Site. Exterior material storage associated with the north adjoining property is also present on the north portion of the Site.

The northeast corner of the Site was cleared for development and improved with storage trailers by 1970. In addition, it appears that Fivemile Creek was redirected to the east during this time. By 1975, the northeast corner was developed with a paved lot and vehicle storage associated with adjoining properties. The remaining area of the Site consisted of residential and commercial structures along the west portion (including a furniture store in 1989) and railroad tracks/access roads through the central portion of the Site.

Railroad tracks and former structures were demolished by 1991 when the current Price Chopper structure with tenant spaces was developed on the east portion of the Site with paved parking to the west.

The adjoining properties have historically consisted of a landfill to the north/northeast prior to 1970, auto salvage adjoining to the east and various automotive repair facilities to the northeast (City of Leavenworth Garage/Leavenworth Service Center) and south across Marion Street.

3.2 Previous Assessments Summary

The Phase I ESA dated September 2019 was completed for the subject property and identified the following RECs and VECs associated with the Site:

1. An automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial photographs. Based on the close proximity in addition to potential operation onsite, the automotive salvage yard is considered a REC and VEC to the Site.
2. A former landfill (City of Leavenworth Old City Landfill, City of Leavenworth 2nd & Limit Dump) was previously located north/northeast of the Site and was closed by approximately 1970. No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.
3. Leavenworth City Garage was previously located northeast of the Site at South 3rd and Marion Street. Various USTs have been removed from the facility with no information regarding location or sampling to confirm or deny impact to the subsurface. In addition, a history of non-compliance has been identified at the facility including visible oil contamination and disposing of paint waste and paint contaminated thinner on the ground and into a storm drain which discharges to the east adjoining Fivemile Creek. Although visibly contaminated soil was reportedly removed and disposed, no confirmation sampling appears to have been conducted following the removal of the contaminated soil. In addition, groundwater was not evaluated during the assessment. The area is currently occupied by Leavenworth Animal Control. A Field Report dated July 8, 2013 provided by the City of Leavenworth indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. Tank spillage had previously been observed on standing water "north of the Price Chopper parking lot". The tanks removed during the construction of the Leavenworth Animal Control are potentially attributed to the former City Garage. Based on close proximity and a history of non-compliance, the City Garage poses a REC and VEC to the Site.
4. Great Western Manufacturing Co. adjoins the Site to the north at 2017 South 4th Street. A historical inspection dated 1987 indicates that waste paint and spent paint booth filters were historically being disposed of in the dumpster at the facility. The facility also previously dumped waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.

EWI requested documentation for the Site and surrounding properties from the City of Leavenworth to summarize and incorporate into the Phase I ESA. The City provided a copy of a Phase II Environmental Site Assessment dated December 1989 conducted for the Site prior to construction of the current Price Chopper. The Phase II ESA was performed in response to a previous Phase I ESA dated October 27, 1989, which identified potential off-site contaminant sources to the "north, east and southeast".

Adjacent properties to the north were identified as Great Western Manufacturing, GNB Batteries and the Leavenworth Service Center (also identified as the City Garage)/former landfill and properties to the east and southeast were identified as auto salvage yards with automotive repair shops to the south. EWI was not provided a copy of the previous Phase I ESA for review.

At the time of the Phase II investigation, two residences, a furniture store and small sheds were located on the subject property. The remaining area consisted of undeveloped land with an unimproved road (Third Street) and railroad line intersecting the Site. Boring and monitoring well locations from the previous Phase II investigation are included on Figure 2.0 – Sample Location Map of this Report.

Three (3) discrete shallow soil samples (B-1, B-2 and B-3) were collected from 2 feet below ground surface (bgs) along the east property line and two (2) discrete soil samples (MW-3 and MW-4) were collected from 3 feet bgs near the northeast corner of the Site. The samples were collected to investigate "possible lead and/or petroleum contamination" from the former underground storage tanks (USTs) associated with the adjoining Leavenworth Service Center property that was documented to have previously leaked "an undetermined amount of gasoline" and the adjoining auto salvage yard. Concentrations of lead were detected at approximately 20 parts per million (ppm) in each of the samples which was reportedly within typical background levels for the area. The samples collected at MW-3 and MW-4 identified total petroleum hydrocarbons (TPH) at concentrations of 140 ppm and 260 ppm respectively.

Six (6) monitoring wells were also installed at the subject property during the Phase II ESA. Three wells were installed along the northern property boundary (MW-1, MW-2 and MW-3), two wells along the eastern property boundary (MW-4 and MW-5) and one well (MW-6) in the southwest corner. No detectable concentrations of benzene, toluene, xylene or total lead were identified in groundwater at MW-1, MW-2, MW-3 or MW-5. No volatile or semi-volatile compounds were detected above 5 parts per billion (ppb) at MW-3, MW-5 or MW-6. Analytical results at MW-4 (along the northeast portion of the Site) identified elevated concentrations of metals in groundwater that were above National Drinking Water Standards for the time. In addition, a concentration of 18 ppb was detected for an unidentified semi-volatile compound in groundwater at MW-4. According to the Phase II narrative, the groundwater impacts at MW-4 are potentially attributed to the former landfill and/or auto salvage facility to the east.

Based on a review of results from the Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses

including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage).

A Subsurface Exploration Report was also conducted for the proposed Price Chopper at Fourth & Marion Streets in October 1989. Miscellaneous rubble fill including gravel, brick, concrete, wood, metal and cinders were identified in borings advanced in the area of the proposed Price Chopper (north/northeast portion of the Site).

3.3 Geology

Based on field observations and a review of topographic map in the area of the Site, the surface topography of the subject property slopes to the east. The topography in the surrounding area generally slopes towards Fivemile Creek located approximately 175 feet east of the Site. Based on an interpretation of surface topography, groundwater flow direction in the area of the Site is anticipated to be to the east/southeast.

According to the United States Department of Agriculture (USDA) Web Soil Survey, the soils at the Site are classified as the Kennebec silt loam, Lagoda silt loam with 3 to 8 percent (%) slopes and Judson silt loam with 0 to 1% slopes. Kennebec series consists of deep, moderately well drained soils, frequently flooded on bottom land formed in silty alluvium. Lagoda silt loam consists of deep, sloping, moderately well drained soils on uplands formed in loess. Judson silt loam consists of deep, nearly level, well-drained soils on low terraces and foot slopes along creeks, formed in alluvium.

Based on field observations, soil at the Site appeared to be comprised primarily of silty clay. The soil borings were pushed to depths ranging from 25 and 30 feet bgs; however, shallow refusal (7.5 and 12.5 feet bgs) was encountered in borings SB-4 (due to wood debris) and SB-6 (due to concrete) located on the north and east sides of the Site structure. Saturated conditions were observed at depths ranging from 19.5 to 25 feet. Boring logs are included in Appendix A.

4.0 INVESTIGATION ACTIVITIES

A Limited Phase II ESA proposal was submitted to Associated Wholesale Grocers, dated September 26, 2019. With the exception of deviations discussed in the following sections, the investigation was conducted in accordance with the scope of work provided in EWI's proposal. The investigation included the installation of soil gas wells, soil borings for field screening and the installation of temporary groundwater monitoring wells and the collection of soil gas, soil, and groundwater samples for laboratory analysis.

Boring logs are provided as Appendix A, and Site photographs are provided in Appendix B. The soil boring/temporary groundwater well and temporary soil gas well locations are provided on Figure 2.0.

4.1 Hydraulic Probing and Sampling Summary

The field investigation consisted of direct-push soil probing using a Geoprobe® 7822DT track-mounted probe unit on October 10 and 11, 2019. Seven (7) direct-push soil borings (SB-1 through SB-7) were advanced and temporary groundwater wells were co-located with five (5) of the soil boring locations. Additionally, three (3) temporary soil gas wells were installed at the Site. The temporary groundwater wells were sampled on the same day of installation. The temporary soil gas wells were installed and sampled on October 10, and sampled October 11, 2019.

The following table provides a soil gas, soil and groundwater sampling and analysis summary for the field investigation activities. The table includes a description of the environmental concern and potential contaminants of concern (COC) evaluated and the general location and total depths of the soil borings/temporary groundwater wells installed at the Site. The table also lists the soil and groundwater samples collected and the associated COC submitted for laboratory analysis.

Environmental Concern	Soil Borings (total depth of boring) ¹ Temporary Groundwater Wells (MW)	Soil and Groundwater Samples ²	COC Analysis	General Soil Boring/ Groundwater Well Location
REC 4: North adjoining facility with history of non-compliance	SB-1 (30 feet bgs) SB-2 (30 feet bgs) MW-1 and MW-2	SB-1 (26-27) SB-2 (22-23) MW-1 MW-2	VOCs TPH-LRH TPH-MRH/HRH RCRA Metals	The soil borings were located along the north property boundary, on the west portion of the Site. Temporary groundwater wells were co-located with both soil borings SB-1 and SB-2.
REC 2: Former landfill in close proximity REC 3: North adjoining former City Garage with USTs and history of non-compliance	SB-3 (25 feet bgs) SB-4 (12.5 feet bgs) MW-3 SVW-1 (3 feet bgs) SVW-2 (3 feet bgs) SVW-3 (3 feet bgs)	SB-3 (18-19) SB-4 (11.5-12.5) MW-3 SVW-1 SVW-2 SVW-3	VOCs SVOCs TPH-LRH TPH-MRH/HRH PCBs RCRA Metals TO-15 (VOCs)	Soil borings were located along the north property boundary, north of the Site structure. A groundwater well was co-located with soil boring SB-3 near the northeast corner of the Site structure. Temporary soil gas wells were installed northwest, north and northeast of the Site structure.
REC 1: East adjoining/former on Site auto salvage REC 2: Former landfill in close proximity	SB-5 (30 feet bgs) SB-6 (7.5 feet bgs) SB-7 (30 feet bgs) MW-5 and MW-7	SB-5 (4-5) SB-5 (8-10) SB-6 (4-6) SB-7 (24-25) MW-5 MW-7	VOCs SVOCs TPH-LRH TPH-MRH/HRH PCBs RCRA Metals	Soil borings were located along the east side of the structure along the east property boundary of the Site. Temporary groundwater wells were co-located with soil borings SB-5 and SB-7 near the northeast and southeast corners of the Site structure.

¹ The total depth in feet represents the total depth of borings at target depth or shallow refusal.

² Sample Identification:

SB-1 (2-4)	Soil Boring (sample depth in feet bgs)
MW-1	Temporary groundwater well-corresponding soil boring
SVW-1	Soil gas sample-corresponding well location

COC analysis and analytical methods:

PCB	Polychlorinated biphenyls by EPA Method 8082
RCRA Metals	U.S. EPA Resource Conservation and Recovery Act list of 8 metals by EPA Method 6010/7471. Groundwater samples were filtered by the laboratory and reported as dissolved metals (EPA Method 7470)
SVOCs	Semi volatile organic compounds by EPA Method 8270
LRH	Low-range hydrocarbons (KS Methods/8260)
MRH/HRH	Mid-range hydrocarbons HRH/high-range hydrocarbons (KS Methods)
TPH	Total petroleum hydrocarbons
VOCs	Volatile organic compounds by EPA Method 8260

4.2 Soil Observations and Sampling

Soil samples were collected continuously from the soil borings using a five-foot, acetate-lined Dual Tube sampler. Individual soil samples were logged to define the soil strata and relative moisture content, and inspected to note visual signs of petroleum impact and/or olfactory indications of volatile organic vapors.

Soil cores were field screened using a PID with a 10.6 electron volt (eV) lamp for VOCs. PID soil screening results are provided on the boring logs included in Appendix A.

Suspect fill material indicative of landfill waste was observed in boring SB-5 located on the northeast corner of the Site structure at depths of approximately 5 to 7 feet bgs and from 9 to 10 feet bgs. The suspect fill consisted of brick, gravel, wood, general refuse debris (plastic bags, pieces of plastic), and metallic debris intermixed with black silty clay.

Fill material was observed just below the surface in the majority of the soil borings advanced at the Site. The fill consisted of concrete, asphalt, gravel and sand. Boring SB-6 also contained fill material consisting of brick, gravel, sand and pieces of glass intermixed with grey and dark grey silty clay. The fill material was encountered at depths of 4 to 7.5 feet bgs, and was not indicative of landfill waste as described above.

Slightly elevated PID screening results were observed borings SB-3 and SB-5. The PID readings ranged from 0.1 to 1.4 ppm. Other than the suspect fill materials described above, no visual indications of impacts were observed in the borings installed at the Site. Additionally, no petroleum-like or other suspect odors were observed in the soil borings installed at the Site.

Soil samples were collected and submitted for laboratory analysis as listed on the summary table above. Soil samples were collected from the interval with the highest likelihood for impact as observed through field screening results (PID screening or visual observations) or sampler judgment. The samples were immediately placed in laboratory-provided sample containers, labeled, and packed on ice. The samples were submitted to Pace Analytical for analysis of potential COC as indicated on the summary table above.

4.3 Groundwater Sampling

Five (5) soil borings as indicated on the summary table above were completed with temporary well casings for the collection of a groundwater sample. Temporary casings were comprised of one-inch, Schedule 40 PVC with 0.01-inch slotted screen. Temporary groundwater wells were installed to the total depth of the borings. The temporary groundwater wells were installed on October 10, 2019 and evaluated for water and sampled the same day of installation.

The temporary groundwater wells were gauged using a water level indicator prior to sample collection. Groundwater was measured at depths ranging between 8.36 to 21.46 feet bgs. Sufficient groundwater

was produced for sample collection from all the temporary groundwater wells (MW-1, MW-2, MW-3, MW-5 and MW-7) installed at the Site.

The samples were collected using clean dedicated tubing fitted with a check valve. Approximately one-liter was purged from each temporary well prior to sample collection. Groundwater was transferred to laboratory-provided sample containers labeled, and packed on ice. The samples were submitted to Pace Analytical for analysis of potential COC as indicated on the summary table above.

4.4 Soil Vapor Sampling

Three (3) temporary soil gas wells were installed and three (3) soil gas samples were collected and submitted for laboratory analysis. Each temporary soil gas well involved the installation of a 0.5-inch implant anchor point connected to ¼-inch nylon tubing. The soil gas wells were then constructed with a temporary sand filter pack, dry bentonite, and hydrated bentonite seal to prevent infiltration of vapors from the atmosphere. The soil gas samples were collected from approximately three (3) feet bgs. Soil gas samples 2107-SVW-1, 2107-SVW-2, and 2107-SVW-3 were collected northeast, north and northwest of the Site structure (see Figure 2.0).

The soil vapor samples were collected in Summa canisters using clean dedicated polyethylene tubing. The sampling train was purged and tested for leaks prior to sample collection. A total of approximately three well volumes of air were purged from the vapor well tubing prior to the collection of soil vapor samples. To ensure that the proper seal was produced within the sampling train, a qualitative vacuum check was performed wherein the syringe was pulled with two-way valve in the off position. The tubing air was evacuated and there was no evidence that the vacuum was decreasing. Soil vapor sampling field forms are provided in Appendix C.

The soil vapor samples were shipped under chain of custody to Centek Laboratories, LLC in Syracuse, New York (Centek). Centek is an American Industrial Hygiene Association (AIHA) air analytical laboratory. The vapor samples were analyzed for VOCs and naphthalene by US EPA Method TO-15.

4.5 Equipment Decontamination, Abandonment, and Investigation-Derived Waste (IDW) Management

Sampling equipment was decontaminated between sampling locations to prevent cross-contamination. Equipment was cleaned with Alconox[®] solution using a nylon brush. Following cleaning, the equipment was rinsed with tap water and rinsed a final time with distilled water.

Liquid IDW generated during drilling activities, including purge water, and equipment decontamination fluids, was spread on-site within a vegetated area. Excess soil cuttings were thin spread in vegetated areas or placed back into their respective boreholes and remaining void space was filled with granular bentonite. Other IDW (i.e. disposable PPE and disposable sampling equipment) were disposed of as municipal solid waste.

At the conclusion of field activities, the temporary groundwater wells were removed and the void space properly abandoned by backfilling with bentonite. Abandonment registration records were submitted in accordance with applicable regulations.

5.0 INVESTIGATION RESULTS

The collection of soil gas, soil and groundwater samples for laboratory analysis was completed during the investigation. Laboratory analytical reports are included in Appendix C.

Soil and groundwater data were compared to the Kansas Department of Health and Environment (KDHE) Tier 2 Risk-Based Standards for Kansas (RSK) values outlined in Appendix A of the RSK Manual (October 2010 and September 2015 amendments). The data were compared to the Tier 2 RSK values for both the Residential and Non-Residential scenarios. The USGS National Geochemical Survey average values for Leavenworth County, Kansas were also used for comparison of the RCRA Metals soils data. In the absence of established KDHE Tier 2 RSKs for PCB in soil, and VOCs in soil gas, EWI utilized the US EPA RSLs and VISLs Target Near-Source Soil Gas Concentrations for Residential and Non-Residential (Commercial or Industrial) land use scenarios for comparison to analytical results.

The KDHE Tier 2 RSKs for both Residential and Non-Residential land use scenarios are compared to a summary of the soil analytical results presented on Tables 1.0, 2.0 and 3.0 and groundwater analytical results are presented on Tables 4.0 and 5.0. Soil gas analytical results are compared to US EPA VISL Target Soil Gas Concentrations in Table 6.0.

5.1 Soil Analytical Results

TPH-MRH

EWI submitted seven (7) soil samples for analysis of TPH-MRH. Concentrations of TPH-MRH were detected above the laboratory reporting limit as follows:

- TPH-MRH was detected in three (3) soil samples (SB-4 (11.5-12.5), SB-5 (8-10) and SB-6 (4-6)) at concentrations ranging from 12.7 to 29.5 milligrams per kilogram (mg/kg), below the KDHE Tier 2 Residential and Non-Residential RSKs of 250 and 350 mg/kg, respectively.

TPH-HRH

EWI submitted seven (7) soil samples for analysis of TPH-HRH. Concentrations of TPH-HRH were detected above the laboratory reporting limit as follows:

- TPH-HRH was detected in all the soil samples submitted for analysis at concentrations ranging from 21.8 to 327 mg/kg, below the KDHE Tier 2 Residential and Non-Residential RSKs of 6,000 and 27,500 mg/kg, respectively.

TPH-LRH

EWI submitted seven (7) soil samples for laboratory analysis of TPH-LRH; however, none of the samples contained concentrations of TPHs above the laboratory reporting limits.

PCBs

EWI submitted six (6) soil samples for analysis of PCB. Concentrations of PCBs were detected above the laboratory reporting limits as follows:

- PCB-1254 (Aroclor 1254) was detected in soil samples SB-5 (4-5) and SB-5 (8-10) at concentrations of 0.71 and 0.10 mg/kg, respectively. The highest concentration observed in sample SB-5 (4-5) was above the US EPA RSL for Residential Soil, but below the RSL for Industrial Soil. The remaining concentration was below the US EPA RSLs.

Metals

EWI submitted all eight (8) soil samples for analysis of RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury). Concentrations of metals were detected above the laboratory reporting limits as follows:

- Lead was detected in all the soil samples at concentrations ranging from 11.1 to 432 mg/kg. The highest concentration of 432 mg/kg was observed in sample SB-5 (4-5), above the KDHE Tier 2 Residential RSK of 400 mg/kg, but below the Non-Residential RSK of 1,000 mg/kg. The remaining concentrations observed in soil samples were below the KDHE Tier 2 Residential and Non-Residential RSKs.
- Arsenic, barium, cadmium, chromium and mercury were detected in the remaining soil samples; however, all the concentrations were below their respective KDHE Tier 2 Residential and Non-Residential RSKs.

5.2 Groundwater Analytical Results

TPH-MRH

EWI submitted all five (5) groundwater samples for analysis of TPH-MRH. Concentrations of TPH-MRH were detected above the laboratory reporting limits as follows:

- TPH-MRH was detected in all the samples at concentrations ranging from 0.13 to 0.33 milligrams per liter (mg/L). The concentrations observed in samples MW-1, MW-5 and MW-7 were above the KDHE Tier 2 Residential RSK of 0.15 mg/L, but below Non-Residential RSK of 0.40 mg/L for the Groundwater Pathway. The remaining concentrations were below their respective KDHE Tier 2 RSKs.

TPH-HRH

EWI submitted all five (5) groundwater samples for analysis of TPH-HRH. Concentrations of TPH-HRH were detected above the laboratory reporting limits as follows:

- TPH-HRH was detected in all the samples at concentrations ranging from 0.77 to 3.1 mg/L. The highest concentration of 3.1 mg/L was observed in sample MW-5, above the KDHE Tier 2 Residential and Non-Residential RSKs of 1.0 and 2.5 mg/L, respectively. The remaining concentrations were all below their respective KDHE Tier 2 RSKs.

TPH-LRH

EWI submitted all five groundwater samples for analysis of TPH-LRH; however, none of the samples contained concentrations of TPH-LRH above the laboratory reporting limits.

VOCs

EWI submitted all five (5) groundwater samples for analysis of VOCs. Concentrations of VOCs were detected above the laboratory reporting limits as follows:

- p-Isopropyltoluene was detected in sample MW-5 at a concentration of 0.0016 mg/L; currently KDHE has no established Tier 2 RSKs for p-isopropyltoluene.
- None of the remaining samples contained concentrations of VOCs above the laboratory reporting limit.

RCRA Metals

EWI submitted all five (5) groundwater samples for analysis of dissolved RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury). Concentrations of metals were detected above the laboratory reporting limits as follows:

- Dissolved arsenic was detected in samples MW-1 and MW-2 at concentrations of 0.015 mg/L, respectively, above the KDHE Tier 2 Residential and Non-Residential RSK of 0.01 mg/L.
- Dissolved barium was detected in all the groundwater samples at concentrations ranging from 0.035 to 0.40 mg/L, below the KDHE Tier 2 Residential and Non-Residential RSK of 2.0 mg/L.

SVOCs

EWI submitted three (3) groundwater samples for laboratory analysis of SVOCs. Concentrations of SVOCs were detected above the laboratory reporting limits as follows:

- 2,6-Dinitrotoluene was detected in sample MW-7 at a concentration of 0.0182 mg/L, above the KDHE Tier 2 Residential and Non-Residential RSKs of 0.000557 and 0.00187 mg/L, respectively.
- None of the remaining samples contained concentrations of SVOCs above the laboratory reporting limit.

PCBs

EWI submitted three (3) groundwater samples for laboratory analysis of PCBs; however, none were detected above the laboratory reporting limit in the groundwater samples submitted for analysis.

5.3 Soil Vapor Analytical Results

Soil vapor data were compared to the US EPA VISL Target Target Sub-Slab and Near-Source Soil Gas Concentrations for both Residential and Commercial scenarios. Soil gas analytical results are summarized on Table 6.0.

EWI collected three (3) soil gas samples (2107-SVW-1, 2107-SVW-2 and 2107-SVW-3) for laboratory analysis of VOCs. The following VOCs were detected above the laboratory reporting limits in the soil gas samples:

- Chloroform was detected in samples 2107-SVW-1 and 2107-SVW-3 at concentrations of 49 and 120 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), respectively. The concentrations are above the EPA VISL Residential Target Concentration for Exterior Soil Gas of $41 \mu\text{g}/\text{m}^3$, but below the Non-Residential value of $180 \mu\text{g}/\text{m}^3$. The remaining concentration of chloroform was below the EPA VISL comparison values.
- Several additional VOCs compounds were detected in the soil gas samples including the following: 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, 4-ethyltoluene, acetone, benzene, bromodichloromethane, carbon disulfide, chloromethane, cyclohexane, ethyl acetate, ethylbenzene, freon 11 (trichlorofluoromethane), freon 114, freon 12 (dichlorodifluoromethane), heptane, hexane, isopropyl alcohol, methyl ethyl ketone (MEK), methylene chloride, naphthalene, m&p-xylene, o-xylene, styrene, tetrachloroethylene (PCE), trichloroethylene (TCE) and toluene were detected in one or more of the soil vapor samples; however, the concentrations were all below their respective EPA VISL values.

5.4 Vapor Encroachment Condition

EWI compared the soil gas concentrations observed in samples collected onsite to the US EPA VISL Calculator (US EPA, 2019-May) used to generate Target Sub-Slab and Near-source Soil Gas Concentrations. The VISLs were generated based on Residential and Commercial land use and a Target Risk for Carcinogens value of $10\text{E}-05$ and a Target Hazard Quotient of 1.0. The VISL calculator utilizes conservative, generic attenuation factors and default exposure parameters to derive screening levels for soil gas based on target indoor air concentrations under reasonable worst-case conditions for long-term/chronic exposure. VISLs are intended as screening levels to guide decisions regarding the necessity for further investigation or whether no further action may be required. The concentrations of chloroform

observed in samples 2107-SVW-1 and 2107-SVW-3 were above the EPA VISL for Residential land use scenario, but below the EPA VISL for Commercial land use. The remaining concentrations of COC were all below the EPA VISLs for both the Residential and Commercial land use scenarios. Based on the concentrations of COCs observed in the soil gas samples collected at the Site, vapor intrusion does not appear to pose a significant risk to the current land use of the subject property.

6.0 FINDINGS AND CONCLUSIONS

The field investigation activities were completed on October 10 and 11, 2019 and included the advancement of seven (7) soil borings and installation of five (5) temporary groundwater wells and the collection of eight (8) soil and five (5) groundwater samples for laboratory analysis. Additionally, three (3) temporary soil gas wells were installed and three (3) soil gas samples were collected for laboratory analysis. The potential COC evaluated during this assessment included VOCs, SVOCs, PCBs, TPH-LRH/MRH/HRH, and RCRA 8 metals.

Soil and groundwater data were compared to the KDHE Tier 2 RSKs values outlined in Appendix A of the RSK Manual (October 2010 and September 2015 amendments) for both the Residential and Non-Residential scenarios. Metals results were also compared to the USGS National Geochemical Survey average values for Leavenworth County, Kansas. In the absence of established KDHE Tier 2 RSKs for PCB in soil, and VOCs in soil gas, EWI utilized the US EPA RSLs and VISLs Target Near-Source Soil Gas Concentrations for Residential and Non-Residential (Commercial or Industrial) land use scenarios for comparison to analytical results.

Soil

Soil sample SB-5 (4-5) collected at the Site contained PCB-1254 (Aroclor 1254) at a concentration above the US EPA RSL for Residential Soil, but below the RSL for Industrial Soil. The soil sample also contained lead at a concentration above the KDHE Tier 2 Residential RSK, but below the Non-Residential RSK. Soil samples collected at the Site also contained concentrations of TPHs and RCRA metals above the laboratory reporting limits, but below their respective KDHE Tier 2 RSKs.

Groundwater

Groundwater sample MW-5 contained a concentration of TPH-HRH above the KDHE Tier 2 Residential and Non-Residential RSKs. Groundwater sample MW-7 contained SVOC 2,6-dinitrotoluene at a concentration above the KDHE Tier 2 Residential and Non-Residential RSKs. Dissolved RCRA metal arsenic was detected in samples MW-1 and MW-5 at concentrations above the KDHE Tier 2 Residential and Non-Residential RSKs. Groundwater samples MW-1, MW-5 and MW-7 contained concentrations of TPH-MRH at concentrations above the KDHE Tier 2 Residential RSK, but below the Non-Residential RSK. Groundwater samples collected at the Site contained additional concentrations of VOC, SVOC, TPH, and RCRA metals; however, the concentrations were below their respective KDHE Tier 2 Residential and Non-Residential RSKs. PCBs were not detected above the laboratory reporting limit in groundwater samples collected at the Site.

Soil Gas

Soil gas samples collected at the Site contained VOC chloroform at concentrations above the EPA VISL Target Concentration for Residential Exterior Soil Gas, but below the Commercial comparison value.

Several additional VOCs were detected in the soil gas samples at concentrations above the laboratory reporting limits, but below their respective EPA VISL comparison values.

Based on the concentrations of COCs observed in the soil gas samples collected at the Site, vapor intrusion does not appear to pose a risk to the current land use of the subject property.

7.0 LIMITATIONS OF STUDY

No significant limitations were encountered during this Limited Phase II ESA. This report has been prepared expressly for Associated Wholesale Grocers. This report has been prepared in accordance with generally accepted environmental assessment practices and represents a good faith effort to include all relevant and factual data available in accordance with an agreement with Associated Wholesale Grocers. These conclusions presented in this report are based solely upon the reported analytical results from an independent laboratory for the samples collected from discrete locations predetermined by the Client on the subject property. The borings were relocated as close as possible to the proposed boring locations if access limitations were encountered. It is possible that impact may be present in areas of the subject property not sampled. The conclusions are intended exclusively for the purpose outlined herein and at the site location and project indicated. No other warranty, expressed or implied, is made as to the contents, summary and conclusions presented herein. This report is intended for the sole use of Associated Wholesale Grocers. The scope of services performed in execution of this investigation may not be appropriate to satisfy the need of other users, and any use or re-use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said users.

8.0 REFERENCES

Environmental Works, Inc. Phase I Environmental Site Assessment: Price Chopper Property, 2107 South 4th Street, Leavenworth, Leavenworth County, Kansas. September 9, 2019.

Kansas Department of Health and Environment (KDHE). Risk-Based Standards for Kansas (KDHE) RSK Manual – 5th Version. October 2010, Revised September 2015.

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey (<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>)

USDA Soil Conservation Service, Soil Survey of Leavenworth and Wyandotte Counties, Kansas. Issued February 1977.
https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/kansas/leavenworth_wyandotteKS1977/leavenworth.pdf

U.S. Department of the Interior, U.S. Geological Survey. Mineral Resources On-Line Spatial Data: National Geochemistry by County. Average Concentrations of Elements in Leavenworth County, Kansas. Data cited September 2008, last updated February 2017.
<https://mrdata.usgs.gov/geochem/doc/averages/countydata.htm>

TABLES

TABLE 1.0
Summary of Soil Analytical Results - TPHs
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	Method 8015		
		LRH	MRH	HRH
		mg/kg	mg/kg	mg/kg
Residential Tier 2 RSK Soil		550	250	6,000
Non-Residential Tier 2 RSK Soil		950	350	27,500
SB-1 (26-27)	10/10/2019	ND	ND	30.4
SB-2 (22-23)	10/10/2019	ND	ND	21.8
SB-3 (18-19)	10/10/2019	ND	ND	34.2
SB-4 (11.5-12.5)	10/10/2019	ND	16.7	88.8
SB-5 (4-5)	10/10/2019	NA	NA	NA
SB-5 (8-10)	10/10/2019	ND	29.5	327
SB-6 (4-6)	10/10/2019	ND	12.7	92.5
SB-7 (24-25)	10/10/2019	ND	ND	43.4

Notes:

RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas

mg/kg = milligrams per kilograms (parts per million)

ND = non detect

TPH-HRH = Total Petroleum Hydrocarbons - High-Range Hydrocarbons

TPH-LRH = Total Petroleum Hydrocarbons - Low-Range Hydrocarbons

TPH-MRH = Total Petroleum Hydrocarbons - Mid-Range Hydrocarbons

Bold text = analyte detected above the laboratory reporting limit

Green shading denotes concentrations that exceed the KDHE Residential Soil Tier 2 RSK value

Blue shading denotes concentrations that exceed the KDHE Non-Residential Soil Tier 2 RSK value

TABLE 2.0
Summary of Soil Analytical Results - PCBs
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	Method 8082						
		PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential Tier 2 RSK Soil		NE	NE	NE	NE	NE	NE	NE
Non-Residential Tier 2 RSK Soil		NE	NE	NE	NE	NE	NE	NE
US EPA RSL - Residential Soil		4.1	0.2	0.17	0.23	0.23	0.24	0.24
US EPA RSL - Industrial Soil		27	0.83	0.72	0.95	0.95	0.97	0.99
SB-1 (26-27)	10/10/2019	NA	NA	NA	NA	NA	NA	NA
SB-2 (22-23)	10/10/2019	NA	NA	NA	NA	NA	NA	NA
SB-3 (18-19)	10/10/2019	ND	ND	ND	ND	ND	ND	ND
SB-4 (11.5-12.5)	10/10/2019	ND	ND	ND	ND	ND	ND	ND
SB-5 (4-5)	10/10/2019	ND	ND	ND	ND	ND	0.71	ND
SB-5 (8-10)	10/10/2019	ND	ND	ND	ND	ND	0.10	ND
SB-6 (4-6)	10/10/2019	ND	ND	ND	ND	ND	ND	ND
SB-7 (24-25)	10/10/2019	ND	ND	ND	ND	ND	ND	ND

Notes:

RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas

US EPA = U.S. Environmental Protection Agency, Regional Screening Levels (RSLs) Target Risk for Carcinogens value of 10E-06 and Target Hazard Quotient of 1.0.

mg/kg = milligrams per kilograms (parts per million)

ID = Identification

ND = non detect

NE = not established

PCB = Polychlorinated biphenyls

RSL = Regional Screening Level

Bold text = analyte detected above the laboratory reporting limit

Green shading denotes concentrations that exceed the KDHE Residential Soil Tier 2 RSK value

Blue shading denotes concentrations that exceed the KDHE Non-Residential Soil Tier 2 RSK value

Red shading denotes concentrations that exceed the US EPA Residential Soil value

Purple shading denotes concentrations that exceed the US EPA Industrial Soil value

TABLE 3.0
Summary of Soil Analytical Results - RCRA Metals
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	Method 6010 and 7471							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Residential Tier 2 RSK Soil		18.9	15,300	39	33.6	400	2	391	391
Non-Residential Tier 2 RSK Soil		63.2	277,000	965	111	1,000	20	10,200	10,200
USGS Average Concentration Leavenworth County		9.28	NE	NE	NE	19.94	0.016	0.245	NE
SB-1 (26-27)	10/10/2019	4.0	200	ND	21.6	12.2	ND	ND	ND
SB-2 (22-23)	10/10/2019	3.0	183	ND	20.0	11.1	ND	ND	ND
SB-3 (18-19)	10/10/2019	8.2	156	ND	20.7	27.2	ND	ND	ND
SB-4 (11.5-12.5)	10/10/2019	8.1	242	0.52	19.4	23.4	ND	ND	ND
SB-5 (4-5)	10/10/2019	14.0	244	0.51	27.2	432	0.064	ND	ND
SB-5 (8-10)	10/10/2019	4.0	156	ND	19.5	25.9	ND	ND	ND
SB-6 (4-6)	10/10/2019	8.0	228	1.1	16.6	118	0.057	ND	ND
SB-7 (24-25)	10/10/2019	3.6	243	ND	26.3	14.0	ND	ND	ND

Notes:

RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas

mg/kg = milligrams per kilograms (parts per million)

ND = non detect

NE = not established

RCRA Metals = Resource Conservation and Recovery Act Metals

Bold text = analyte detected above the laboratory reporting limit

Green shading denotes concentrations that exceed the KDHE Residential Soil Tier 2 RSK value

Blue shading denotes concentrations that exceed the KDHE Non-Residential Soil Tier 2 RSK value

TABLE 4.0
Summary of Groundwater Analytical Results - VOCs, TPHs and SVOCs
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	TPHs		VOCs		SVOCs
		Method 8015		Method 8260		Method 8270
		TPH-MRH	TPH-HRH	TPH-LRH	p-isopropyltoluene	2,6-Dinitrotoluene
		mg/L	mg/L	mg/L	mg/L	mg/L
Residential Tier 2 RSK Groundwater		0.15	1.0	0.35	NE	0.000557
Non-Residential Tier 2 RSK Groundwater		0.40	2.5	0.95	NE	0.00187
MW-1	10/10/2019	0.15	0.95	ND	ND	ND
MW-2	10/10/2019	0.13	0.77	ND	ND	ND
MW-3	10/10/2019	0.14	0.80	ND	ND	ND
MW-5	10/10/2019	0.33	3.1	ND	0.0016	ND
MW-7	10/10/2019	0.16	0.78	ND	ND	0.0182

Notes:

RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas

ID = Identification

mg/L = milligrams per liter

MW = monitoring well

SVOCs = semi-volatile organic compounds

TPH-HRH = total petroleum hydrocarbons - high-range hydrocarbons

TPH-LRH = total petroleum hydrocarbons - low-range hydrocarbons

TPH-MRH = total petroleum hydrocarbons - mid-range hydrocarbons

Bold text = analyte detected above the laboratory reporting limit

Green shading denotes concentrations that exceed the KDHE Residential Groundwater Pathway Tier 2 RSK value

Blue shading denotes concentrations that exceed the KDHE Non-Residential Groundwater Pathway Tier 2 RSK value

TABLE 5.0
Summary of Groundwater Analytical Results - RCRA Metals - Dissolved
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	Method 6010 and 7471							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Residential Tier 2 RSK Groundwater		0.01	2.0	0.005	0.1	0.015	0.002	0.05	0.0779
Non-Residential Tier 2 RSK Groundwater		0.01	2.0	0.005	0.1	0.015	0.002	0.05	0.508
MW-1	10/10/2019	0.015	0.22	ND	ND	ND	ND	ND	ND
MW-2	10/10/2019	0.015	0.19	ND	ND	ND	ND	ND	ND
MW-3	10/10/2019	ND	0.13	ND	ND	ND	ND	ND	ND
MW-5	10/10/2019	ND	0.40	ND	ND	ND	ND	ND	ND
MW-7	10/10/2019	ND	0.035	ND	ND	ND	ND	ND	ND

Notes:

Only RCRA metals detected above the method detection limit are included in Table 5.0.

RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas

ID = Identification

mg/L = milligrams per liter

MW = monitoring well

NA = Not analyzed

RCRA = Resource Conservation and Recovery Act

Bold text = analyte detected above the laboratory reporting limit

Green shading denotes concentrations that exceed the KDHE Residential Groundwater Pathway Tier 2 RSK value

Blue shading denotes concentrations that exceed the KDHE Non-Residential Groundwater Pathway Tier 2 RSK value

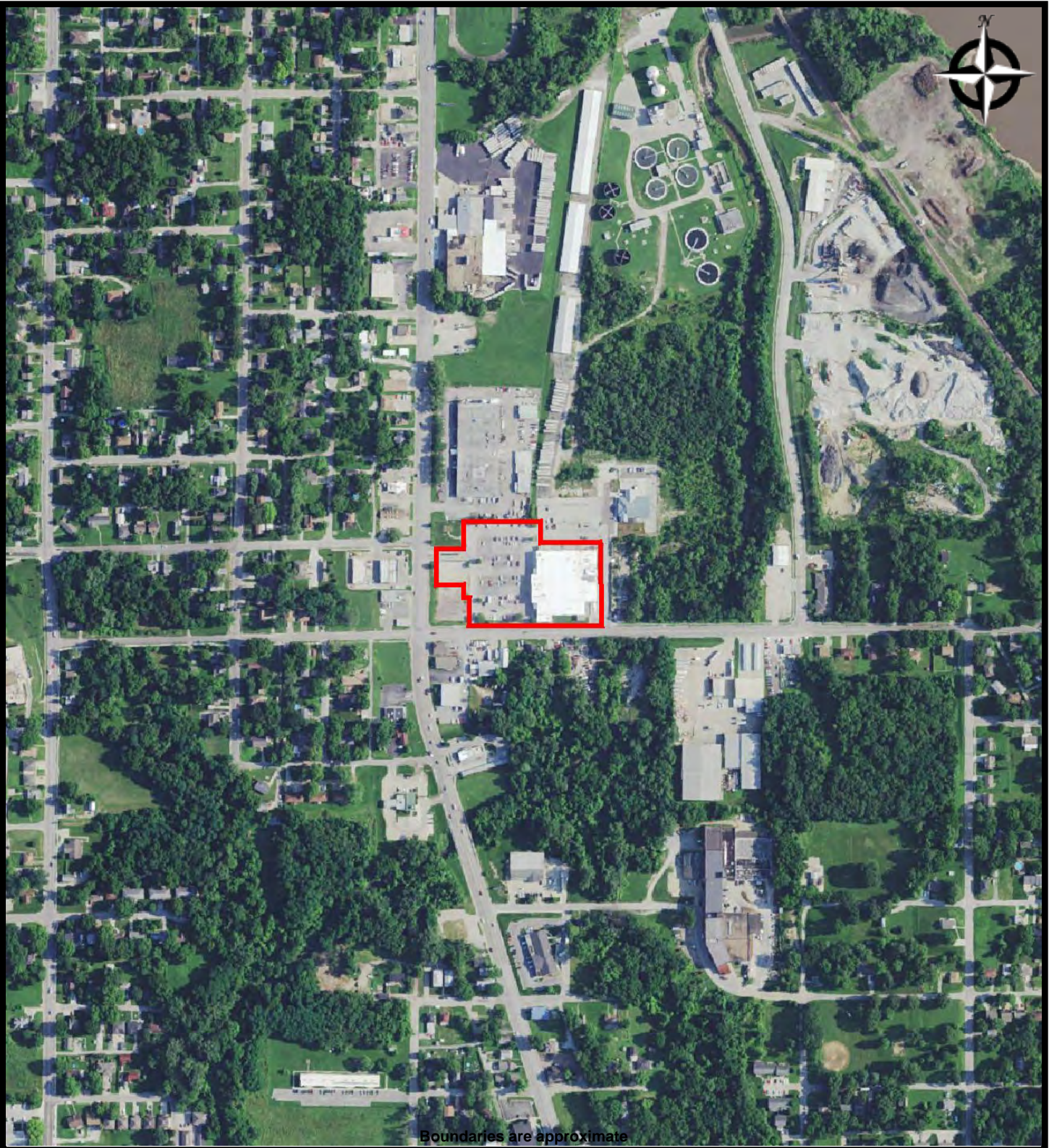
TABLE 6.0
Summary of Soil Gas Sample Results
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas

Sample Identification	Date	Volatile Organic Compounds (VOCs) - Method TO-15																												
		Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroform	Chloromethane	Cyclohexane	Ethyl acetate	Ethylbenzene	4-ethyltoluene	Freon 11	Freon 114	Freon 12	Heptane	Hexane	Isopropyl alcohol	Methyl Ethyl Ketone (MEK)	Methylene chloride	Naphthalene	Styrene	Tetrachloroethylene	Toluene	Trichloroethylene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-trimethylpentane	m&p-Xylene	o-Xylene
		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
EPA VISL Target Exterior Soil Gas-Residential		1.1E+06	120	25	2.4E+04	4.1E+01	3.1E+03	2.1E+05	2.4E+03	374	NE	NE	NE	3.5E+03	1.4E+04	2.4E+04	7.0E+03	1.7E+05	2.1E+04	28	3.5E+04	1.4E+03	1.7E+05	7.0E+01	1.7E+05	2.1E+03	2.1E+03	NE	7.0E+03	3.5E+03
EPA VISL Target Exterior Soil Gas-Commercial		4.5E+06	524	110	1.0E+05	1.8E+02	1.3E+04	8.8E+05	1.0E+04	1,640	NE	NE	NE	1.5E+04	5.8E+04	1.0E+05	2.9E+04	7.3E+05	8.8E+04	120	1.5E+05	5.8E+03	7.3E+05	2.9E+02	7.3E+05	8.8E+03	8.8E+03	NE	2.9E+04	1.5E+04
2107-SVW-1	10/11/2019	53	7.2	2.5	32	49	ND	11	ND	7.2	1.5	3.3	68	6.8	23	16	5.0	11J	0.80	0.89	1.2	0.68J	14	ND	ND	3.8	2.7	1.9	6.5	2.6
2107-SVW-2	10/11/2019	43	15	0.80J	15	36	0.76	19	1.0	3.2	ND	1.5	ND	2.5	11J	19	4.0	8.8J	0.59	1.3	ND	ND	12	1.3	ND	1.9	0.93	3.6	5.0	1.7
2107-SVW-3	10/11/2019	20	3.2	3.7	7.5J	120	ND	11	0.76J	1.5	ND	2.6	ND	2.7	11	8.5J	4.2	5.7	0.42J	1.0	ND	0.95J	5.2	ND	1.2	2.5	1.2	4.3	3.9	1.4

Notes:
Only analytes detected above the laboratory reporting limit were included in Table 6.0.
EPA VISL = U.S. Environmental Protection Agency Vapor Intrusion Screening Level Calculator Target Sub-Slab Soil Gas comparison values based on a Target Risk for Carcinogens value of 10E-05 and Target Hazard Quotient of 1.0. Values for Residential and Commercial use scenarios are included for comparison.
KDHE RSK = Kansas Department of Health and Environment Risk-Based Screening Levels for Kansas
J = Analyte detected below quantitation limit.
µg/m³ = micrograms per cubic meter
ND = non-detect
NE = not established
SVW = Soil vapor well

Bold text = analyte detected above the laboratory reporting limit
Yellow shading denotes soil vapor or indoor air concentration exceeding EPA VISL Target Exterior Soil Gas Concentration for Residential Land Use
Blue shading denotes soil vapor or indoor air concentration exceeding EPA VISL Target Exterior Soil Gas Concentration for Commercial Land Use

FIGURES



Boundaries are approximate



ENVIRONMENTAL WORKS

**SITE LOCATION MAP
PRICE CHOPPER PROPERTY
2107 South 4th Street
Leavenworth, Kansas 66048**

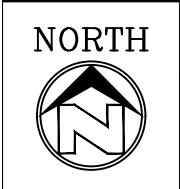
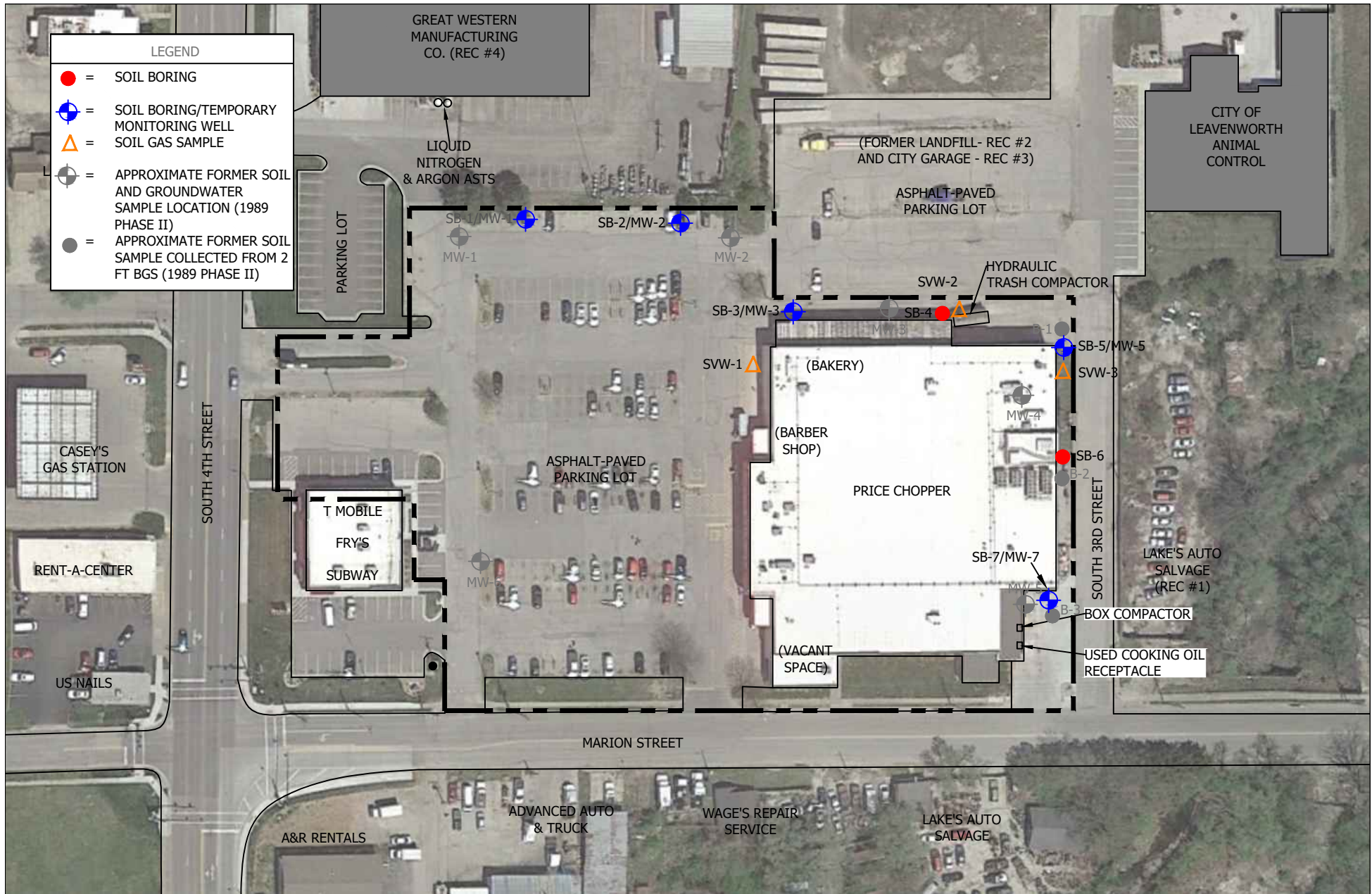
PREPARED FOR: Associated Wholesale Grocers

PROJ. MGR: Gracie Tiffany

DRAWN BY: Nicole Lounsberry

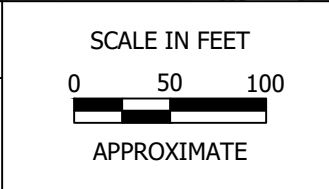
DATE: 11/4/2019

PROJ. #: 191807



CHECKED BY:
G. DILLON

E.W.I. # 191807
DRAWN BY: SBH
Oct. 28, 2019



Kansas City Office Location:
1731 Locust Street
Kansas City, MO 64108
Phone: (816) 285-8410

SAMPLE LOCATION MAP

PRICE CHOPPER PROPERTY
2107 SOUTH 4TH STREET
LEAVENWORTH, LEAVENWORTH COUNTY, KANSAS

FIGURE
2.0

APPENDIX A

Soil Boring Logs



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-1/MW-1

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletty
Boring Depth : 30 feet
Water Level - Static : 9.03 feet bgs

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA					
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	Well Construct.	PID Value	PID (ppm)	Recovery	Sample Interval	Remarks
0		NO RECOVERY						
1								
2								
3		FILL MATERIAL, surface gravel and asphalt				2.0 / 5.0		
4		SILTY CLAY, grey, firm, dry		0.0				
5		SILTY CLAY, very dark brown, firm, slightly moist		0.0				
6				0.0				
7		SILTY CLAY, medium brown, firm, slightly moist		0.0		5.0 / 5.0		
8		SILTY CLAY, light brown with orange and black mottles, slightly firm, slightly moist		0.0				
9				0.0				
10				0.0				
11				0.0				
12				0.0				
13		SILTY CLAY, tan with orange and black mottles, soft, moist		0.0		4.0 / 5.0		
14		SILTY CLAY, tan with orange and black mottles, very soft, very moist to wet		0.0				
15				0.0				
16				0.0				
17				0.0				
18				0.0		3.5 / 5.0		
19				0.0				
20		SILTY CLAY, dark grey, very soft, very moist to wet		0.0				
21				0.0				
22				0.0				
23				0.0		3.0 / 5.0		
24				0.0				
25		SILTY CLAY, dark grey, very soft, saturated		0.0				
26				0.0				
27				0.0			SB-1: (26-27) 1010	
28				0.0		4.5 / 5.0		
29				0.0				
30		Bottom of Boring: 30 feet		0.0				End time: 1000

Notes :



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-2/MW-2

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletly
Boring Depth : 30 feet
Water Level - Static : 11.5 feet bgs

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA					
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	Well Construct.	PID Value	PID (ppm)	Recovery	Sample Interval	Remarks
0		NO RECOVERY						
1								
2								
3								
3.5		SAND, dark brown, firm, very moist		0.0		2.0 / 5.0		
4		FILL MATERIAL, sand, silty clay, mixed colors including tan, black, grey, dark grey, firm, slightly moist		0.0				
5				0.0				
6		SILTY CLAY, very dark brown, firm, slightly moist		0.0				
6.5		SILTY CLAY, dark brown, firm, slightly moist		0.0				
7				0.0				
8				0.0		5.0 / 5.0		
9		SILTY CLAY, light brown with orange and black mottles, slightly firm, slightly moist		0.0				
10		SILTY CLAY, tan with orange and black mottles, soft, moist		0.0				
11				0.0				
12				0.0				
13				0.0		2.5 / 5.0		
14				0.0				
15				0.0				
16				0.0				
17				0.0				
18		SILTY CLAY, tan with orange and black mottles, soft, very moist		0.0		2.5 / 5.0		
19				0.0				
20				0.0				
21		SILTY CLAY, grey, very soft, very moist		0.0				
22				0.0				
23				0.0		4.0 / 5.0	SB-2: (22-23) 0935	
24				0.0				
25				0.0				
26				0.0				
27		SILTY CLAY, dark grey, very soft, wet		0.0				
28		SILTY CLAY, grey green, soft, moist		0.0		4.5 / 5.0		
29		SILTY CLAY, grey green, slightly firm, moist		0.0				
30		Bottom of Boring: 30 feet		0.0				End time: 0930

Notes :



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-3

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletly
Boring Depth : 25 feet

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA						
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL	PID Value	PID (ppm)			Recovery	Sample Interval	Remarks
				0	5	10			
0		NO RECOVERY							
1									
2									
3							2.0 / 5.0		
3.5		FILL MATERIAL, gravel, asphalt, silty clay, dark brown, crumbly, dry	0.0	0.0	0.0	0.0			
4		SILTY CLAY, medium brown, slightly firm, slightly moist	0.0	0.0	0.0	0.0			
5		SILTY CLAY, medium brown, very soft, slightly moist	0.0	0.0	0.0	0.0			
6			0.0	0.0	0.0	0.0			
7			0.0	0.0	0.0	0.0			
7.5		SILTY CLAY, tan with orange and black mottles, slightly soft, slightly moist	0.0	0.0	0.0	0.0	4.0 / 5.0		
8			0.0	0.0	0.0	0.0			
9			0.0	0.0	0.0	0.0			
10			0.0	0.0	0.0	0.0			
10.5		SILTY CLAY, tan with orange and black mottles, soft, very moist	0.0	0.0	0.0	0.0			
11			0.0	0.0	0.0	0.0			
12			0.0	0.0	0.0	0.0	2.5 / 5.0		
13			0.0	0.0	0.0	0.0			
13.5			0.3	0.3	0.3	0.3			
14			0.4	0.4	0.4	0.4			
14.5		SILTY CLAY, medium brown, soft, moist	0.3	0.3	0.3	0.3			
15			0.4	0.4	0.4	0.4			
15.5			0.4	0.4	0.4	0.4			
16			0.4	0.4	0.4	0.4			
16.5		SANDY CLAY, black, very soft, moist	0.4	0.4	0.4	0.4	2.0 / 5.0		
17			0.4	0.4	0.4	0.4			
17.5			0.5	0.5	0.5	0.5			
18			0.8	0.8	0.8	0.8			
18.5		SILTY CLAY, medium brown, soft, moist	0.0	0.0	0.0	0.0			
19		SILTY CLAY, medium brown, very soft, wet	0.0	0.0	0.0	0.0			
19.5		SILTY CLAY, dark grey, very soft, very moist	0.0	0.0	0.0	0.0			
20			0.0	0.0	0.0	0.0			
21			0.0	0.0	0.0	0.0			
22		SILTY CLAY, dark grey, soft, moist	0.0	0.0	0.0	0.0	2.5 / 5.0		
23			0.0	0.0	0.0	0.0			
24			0.0	0.0	0.0	0.0			
25		Bottom of Boring: 25 feet	0.0	0.0	0.0	0.0			End Time: 1035

Notes :

SB-3:
(18-19) 1050



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.
1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-4

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletly
Boring Depth : 12.5 feet

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA						
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL	PID Value	PID (ppm)			Recovery	Sample Interval	Remarks
				0	5	10			
0		NO RECOVERY							
1									
2		SILTY CLAY, black, soft, moist, organic topsoil with organic odor					3.0 / 5.0		
2.5		FILL MATERIAL, gravel							
3		SILTY CLAY, grey and black, slightly soft, slightly moist							
3.5		SILTY CLAY, tan, soft, wet, with GRAVEL							
4		SILTY CLAY, tan and black, soft, moist							
4.5		SILTY CLAY, grey and black, firm, slightly moist							
5									
6									
7		SILTY CLAY, dark grey, slightly soft, slightly moist					3.5 / 5.0		
8									
9									
10		SILTY CLAY, dark grey, very soft, very moist							
11									
12		SILTY CLAY, dark grey, very soft, wet					2.5 / 2.5		
12.5		SILTY CLAY, dark grey, very soft, very moist							
13		Refusal encountered at 12.5 feet on wood							

SB-4:
(11.5-12.5) 1140

End Time: 1115

Notes :



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-5/MW-5

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletty
Boring Depth : 30 feet
Water Level - Static : 8.36 feet bgs

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA					
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	Well Construct.	PID Value	PID (ppm)	Recovery	Sample Interval	Remarks
0		NO RECOVERY						
1								
2								
3						2.0 / 5.0		
4		SILTY CLAY, black, firm, slightly moist, organic topsoil with organic odor		1.4				
5		SILTY CLAY, black, firm, slightly moist, with red and black debris		0.7				SB-5: (4-5) 1340
6		SILTY CLAY, tan with black and orange, firm, slightly moist		0.3				
7		FILL MATERIAL, brick, trash debris (plastic bag), metal pieces, gravel, with SILTY CLAY, black, slightly firm, slightly moist		0.2				
8				0.4		2.0 / 5.0		
9		FILL MATERIAL, pressed wood, gravel, with silty clay, black, slightly firm, slightly moist		0.3				SB-5: (8-10) 1330
10		SILTY CLAY, grey with black, soft, slightly moist		0.2				
11		FILL MATERIAL, pressed wood, plastic, metal, with silty clay, black, slightly firm, slightly moist		0.1				
12		SILTY CLAY, dark grey, firm, slightly moist		0.1				
13				0.1		3.0 / 5.0		
14		SILTY CLAY, dark grey, very soft, very moist		0.1				
15				0.1				
16				0.1				
17				0.1				
18				0.1		3.0 / 5.0		
19				0.1				
20				0.1				
21				0.1				
22				0.0				
23				0.0		3.0 / 5.0		
24		SANDY CLAY, grey and orange, soft, moist		0.1				
25		SILTY CLAY, dark grey, very soft, very moist		0.1				
26				0.1				
27		SILTY CLAY, grey with orange and black mottles, firm, slightly moist		0.0				
28				0.1		5.0 / 5.0		
29		SILTY CLAY, grey, slightly soft, slightly moist		0.1				
30				0.1				
Bottom of Boring: 30 feet								End time: 1315

Notes :



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-6

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletly
Boring Depth : 7.5 feet

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA						
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL	PID Value	PID (ppm)			Recovery	Sample Interval	Remarks
				0	5	10			
0		NO RECOVERY							
1									
2							1.0 / 5.0		
3									
4		FILL MATERIAL, brick, glass, tan sand, gravel, with silty clay, grey and dark grey, firm, slightly moist	0.0						
5		CONCRETE, broken and crushed	0.0					SB-6: (4-6) 1350	
6		FILL MATERIAL, brick, glass, tan sand, gravel, with silty clay, grey and dark grey, firm, slightly moist	0.0				1.5 / 2.5		
7			0.0						
8		Refusal encountered at 7.5 feet bgs on concrete							End Time: 1340

Notes :



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

ENVIRONMENTAL WORKS INC.

1731 Locust Street
Kansas City, Missouri 64108
Phone: 816-285-8410 Fax: 816-285-8409
www.environmentalworks.com

Boring Number: SB-7/MW-7

Project : Price Chopper
Location : 2107 South 4th Street
City/State : Leavenworth, Leavenworth Couty, Kansas
Drilled By : Paul Feld
Logged By : Angela Dugan
Drilling Method: 6620DT Geoprobe
Sampling Method : Dual Tube 5' Continuous Sampler

Project Number : 191807
Date Drilled : 10/10/2019
Inspected by : Angela Dugan
Drafted by : Aaron Galletly
Boring Depth : 30 feet
Water Level - Static : 21.5 feet bgs

DEPTH BELOW	LITHOLOGY		SAMPLING AND WELL DATA					
	LITHOLOGIC SYMBOL	GEOLOGIC DESCRIPTION OF SOIL AND ROCK STRATA	Well Construct.	PID Value	PID (ppm)	Recovery	Sample Interval	Remarks
0		NO RECOVERY						
1								
2								
3								
3.5		CONCRETE, broken and crushed					2.0 / 5.0	
4		SILTY CLAY, grey and orange, firm, slightly dry		0.0				
5				0.0				
6				0.0				
7				0.0				
8		SILTY CLAY, tan with orange and black mottles, soft, moist		0.0			3.0 / 5.0	
9				0.0				
10				0.0				
11				0.0				
12				0.0				
13				0.0			2.5 / 5.0	
14				0.0				
15		SILTY CLAY, grey, very soft, very moist		0.0				
16				0.0				
17				0.0				
18				0.0			3.5 / 5.0	
19		SILTY CLAY, grey, firm, moist		0.0				
20				0.0				
21				0.0				
22				0.0				
23		SILTY CLAY, grey, firm, slightly moist		0.0			3.5 / 5.0	
24		SILTY CLAY, grey with black and orange mottles, firm, slightly moist		0.0				
25				0.0				SB-7: (24-25) 1440
26				0.0				
27				0.0				
28		SILTY CLAY, grey and orange, slightly soft, slightly moist		0.0			5.0 / 5.0	
29				0.0				
30		Bottom of Boring: 30 feet		0.0				

Notes :

APPENDIX B

Photographic Documentation

Limited Phase II Environmental Site Assessment
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas
191807

Photo: 1

Direction of photo:
Northwest

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-1/MW-1 on
northwest portion of
the subject property.



Photo: 2

Direction of photo:
Northwest

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-2/MW-2 on
northwest portion of
the subject property.



Limited Phase II Environmental Site Assessment
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas
191807

Photo: 3

Direction of photo:
Southeast

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-3/MW-3
near the northeast
corner of the Site
structure.



Photo: 4

Direction of photo:
Southwest

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-4 located
on the north side of the
Site structure.



Limited Phase II Environmental Site Assessment
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas
191807

Photo: 5

Direction of photo:
Northwest

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-5/MW-5
near the northeast
corner of the Site
structure.



Photo: 6

Direction of photo:
Southwest

Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-6 on the
east side of the Site
structure.



Limited Phase II Environmental Site Assessment
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas
191807

Photo: 7

**Direction of photo:
Northwest**

**Description:
Photograph of EWI
personnel conducting
drilling at boring
location SB-7/MW-7
near the southeast
corner of the Site
structure.**



Photo: 8

**Direction of photo:
Southeast**

**Description:
Photograph of soil gas
sample collection at
soil gas well SVW-1
near the northwest
corner of the Site
structure.**



Limited Phase II Environmental Site Assessment
Price Chopper Property
2107 South 4th Street
Leavenworth, Leavenworth County, Kansas
191807

Photo: 9

**Direction of photo:
South**

**Description:
Photograph of soil gas
sample collection at
soil gas well SVW-2
located on the north
side of the Site
structure.**



Photo: 10

**Direction of photo:
West**

**Description:
Photograph of soil gas
sample collection at
soil gas well SVW-3
located near the
northeast corner of the
Site structure.**



APPENDIX C

Laboratory Analytical Results and Chain of Custody

October 18, 2019

GREG DILLON
ENVIRONMENTAL WORKS
1731 LOCUST ST
Kansas City, MO 64108

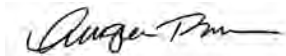
RE: Project: AWG-LEAVENWORTH, KS PHASE II E
Pace Project No.: 60318015

Dear GREG DILLON:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
angie.brown@pacelabs.com
1(913)563-1402
Project Manager

Enclosures

cc: Nick Godfrey, Environmental Works



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 19-016-0

Arkansas Drinking Water

Illinois Certification #: 004455

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212018-1

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-18-11

Utah Certification #: KS000212018-8

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60318015001	SB-1 (26-27)	Solid	10/10/19 10:10	10/11/19 15:41
60318015002	SB-2 (22-23)	Solid	10/10/19 09:35	10/11/19 15:41
60318015003	SB-3 (18-19)	Solid	10/10/19 10:50	10/11/19 15:41
60318015004	SB-4 (11.5-12.5)	Solid	10/10/19 11:40	10/11/19 15:41
60318015005	SB-5 (4-5)	Solid	10/10/19 13:40	10/11/19 15:41
60318015006	SB-5 (8-10)	Solid	10/10/19 13:30	10/11/19 15:41
60318015007	SB-6 (4-6)	Solid	10/10/19 13:50	10/11/19 15:41
60318015008	SB-7 (24-25)	Solid	10/10/19 14:40	10/11/19 15:41
60318015009	MW-1	Water	10/10/19 10:45	10/11/19 15:41
60318015010	MW-2	Water	10/10/19 10:45	10/11/19 15:41
60318015011	MW-3	Water	10/10/19 14:30	10/11/19 15:41
60318015012	MW-5	Water	10/10/19 15:00	10/11/19 15:41
60318015013	MW-7	Water	10/10/19 15:30	10/11/19 15:41
60318015014	TRIP BLANK	Water	10/10/19 08:00	10/11/19 15:41

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60318015001	SB-1 (26-27)	KS MRH/HRH	JCK	3	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015002	SB-2 (22-23)	KS MRH/HRH	JCK	3	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015003	SB-3 (18-19)	KS MRH/HRH	JCK	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015004	SB-4 (11.5-12.5)	KS MRH/HRH	JCK	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015005	SB-5 (4-5)	EPA 8082	AJB1	8	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015006	SB-5 (8-10)	KS MRH/HRH	JCK	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60318015007	SB-6 (4-6)	EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
		KS MRH/HRH	JCK	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
60318015008	SB-7 (24-25)	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
		KS MRH/HRH	JCK	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		EPA 8015B	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7471	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60318015009	MW-1	KS MRH/HRH	AHS	3	PASI-K
		KS LRH: EPA 5030B/8015C	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7470	HKC	1	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 6010	LRS	7	PASI-K
60318015010	MW-2	KS MRH/HRH	AHS	3	PASI-K
		KS LRH: EPA 5030B/8015C	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7470	HKC	1	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 6010	LRS	7	PASI-K
60318015011	MW-3	KS MRH/HRH	AHS	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		KS LRH: EPA 5030B/8015C	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7470	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60318015012	MW-5	KS MRH/HRH	AHS	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		KS LRH: EPA 5030B/8015C	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7470	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
60318015013	MW-7	KS MRH/HRH	AHS	3	PASI-K
		EPA 8082	AJB1	8	PASI-K
		KS LRH: EPA 5030B/8015C	JLO	3	PASI-K
		EPA 6010	LRS	7	PASI-K
		EPA 7470	HKC	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
60318015014	TRIP BLANK	EPA 5030B/8260	PGH	69	PASI-K

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60318015001	SB-1 (26-27)					
KS MRH/HRH	HRH (C19-C35)	30.4	mg/kg	10.2	10/15/19 16:10	
EPA 6010	Arsenic	4.0	mg/kg	0.99	10/16/19 14:34	
EPA 6010	Barium	200	mg/kg	0.50	10/16/19 14:34	
EPA 6010	Chromium	21.6	mg/kg	0.50	10/16/19 14:34	
EPA 6010	Lead	12.2	mg/kg	0.99	10/16/19 14:34	
ASTM D2974	Percent Moisture	24.7	%	0.50	10/14/19 11:37	
60318015002	SB-2 (22-23)					
KS MRH/HRH	HRH (C19-C35)	21.8	mg/kg	9.3	10/15/19 16:18	
EPA 6010	Arsenic	3.0	mg/kg	1.2	10/16/19 14:36	
EPA 6010	Barium	183	mg/kg	0.61	10/16/19 14:36	
EPA 6010	Chromium	20.0	mg/kg	0.61	10/16/19 14:36	
EPA 6010	Lead	11.1	mg/kg	1.2	10/16/19 14:36	
ASTM D2974	Percent Moisture	23.9	%	0.50	10/14/19 11:38	
60318015003	SB-3 (18-19)					
KS MRH/HRH	HRH (C19-C35)	34.2	mg/kg	9.0	10/15/19 16:26	
EPA 6010	Arsenic	8.2	mg/kg	1.2	10/16/19 14:39	
EPA 6010	Barium	156	mg/kg	0.61	10/16/19 14:39	
EPA 6010	Chromium	20.7	mg/kg	0.61	10/16/19 14:39	
EPA 6010	Lead	27.2	mg/kg	1.2	10/16/19 14:39	
ASTM D2974	Percent Moisture	21.8	%	0.50	10/14/19 11:38	
60318015004	SB-4 (11.5-12.5)					
KS MRH/HRH	HRH (C19-C35)	88.8	mg/kg	9.6	10/15/19 16:34	
KS MRH/HRH	MRH (C9-C18)	16.7	mg/kg	7.2	10/15/19 16:34	
EPA 6010	Arsenic	8.1	mg/kg	0.92	10/16/19 14:41	
EPA 6010	Barium	242	mg/kg	0.46	10/16/19 14:41	
EPA 6010	Cadmium	0.52	mg/kg	0.46	10/16/19 14:41	
EPA 6010	Chromium	19.4	mg/kg	0.46	10/16/19 14:41	
EPA 6010	Lead	23.4	mg/kg	0.92	10/16/19 14:41	
ASTM D2974	Percent Moisture	19.2	%	0.50	10/14/19 11:38	
60318015005	SB-5 (4-5)					
EPA 8082	PCB-1254 (Aroclor 1254)	710	ug/kg	229	10/16/19 13:33	
EPA 6010	Arsenic	14.0	mg/kg	0.91	10/16/19 14:43	
EPA 6010	Barium	244	mg/kg	0.46	10/16/19 14:43	
EPA 6010	Cadmium	0.51	mg/kg	0.46	10/16/19 14:43	
EPA 6010	Chromium	27.2	mg/kg	0.46	10/16/19 14:43	
EPA 6010	Lead	432	mg/kg	0.91	10/16/19 14:43	
EPA 7471	Mercury	0.064	mg/kg	0.052	10/15/19 15:51	
ASTM D2974	Percent Moisture	23.9	%	0.50	10/14/19 11:38	
60318015006	SB-5 (8-10)					
KS MRH/HRH	HRH (C19-C35)	327	mg/kg	9.2	10/15/19 16:42	
KS MRH/HRH	MRH (C9-C18)	29.5	mg/kg	6.9	10/15/19 16:42	
EPA 8082	PCB-1254 (Aroclor 1254)	100	ug/kg	42.0	10/16/19 15:38	
EPA 6010	Arsenic	4.0	mg/kg	1.3	10/16/19 14:46	
EPA 6010	Barium	156	mg/kg	0.63	10/16/19 14:46	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60318015006	SB-5 (8-10)					
EPA 6010	Chromium	19.5	mg/kg	0.63	10/16/19 14:46	
EPA 6010	Lead	25.9	mg/kg	1.3	10/16/19 14:46	
ASTM D2974	Percent Moisture	22.1	%	0.50	10/14/19 11:38	
60318015007	SB-6 (4-6)					
KS MRH/HRH	HRH (C19-C35)	92.5	mg/kg	9.5	10/15/19 16:51	
KS MRH/HRH	MRH (C9-C18)	12.7	mg/kg	7.1	10/15/19 16:51	
EPA 6010	Arsenic	8.0	mg/kg	1.0	10/16/19 14:48	
EPA 6010	Barium	228	mg/kg	0.52	10/16/19 14:48	
EPA 6010	Cadmium	1.1	mg/kg	0.52	10/16/19 14:48	
EPA 6010	Chromium	16.6	mg/kg	0.52	10/16/19 14:48	
EPA 6010	Lead	118	mg/kg	1.0	10/16/19 14:48	
EPA 7471	Mercury	0.057	mg/kg	0.054	10/15/19 15:16	
ASTM D2974	Percent Moisture	23.0	%	0.50	10/14/19 11:38	
60318015008	SB-7 (24-25)					
KS MRH/HRH	HRH (C19-C35)	43.4	mg/kg	10.4	10/15/19 16:59	
EPA 6010	Arsenic	3.6	mg/kg	0.87	10/16/19 14:51	
EPA 6010	Barium	243	mg/kg	0.43	10/16/19 14:51	
EPA 6010	Chromium	26.3	mg/kg	0.43	10/16/19 14:51	
EPA 6010	Lead	14.0	mg/kg	0.87	10/16/19 14:51	
ASTM D2974	Percent Moisture	26.0	%	0.50	10/14/19 11:38	
60318015009	MW-1					
KS MRH/HRH	HRH (C19-C35)	0.95	mg/L	0.22	10/17/19 19:41	
KS MRH/HRH	MRH (C9-C18)	0.15	mg/L	0.065	10/17/19 19:41	
KS LRH: EPA 5030B/8015C	Preservation pH	5.0			10/16/19 23:18	pH
EPA 6010	Arsenic, Dissolved	0.015	mg/L	0.010	10/17/19 12:23	
EPA 6010	Barium, Dissolved	0.22	mg/L	0.0050	10/17/19 12:23	
EPA 5030B/8260	Preservation pH	7.0		0.10	10/16/19 08:45	
60318015010	MW-2					
KS MRH/HRH	HRH (C19-C35)	0.77	mg/L	0.22	10/17/19 19:49	
KS MRH/HRH	MRH (C9-C18)	0.13	mg/L	0.065	10/17/19 19:49	
KS LRH: EPA 5030B/8015C	Preservation pH	1.0			10/16/19 23:33	
EPA 6010	Arsenic, Dissolved	0.015	mg/L	0.010	10/17/19 12:31	
EPA 6010	Barium, Dissolved	0.19	mg/L	0.0050	10/17/19 12:31	
EPA 5030B/8260	Preservation pH	1.0		0.10	10/15/19 09:16	
60318015011	MW-3					
KS MRH/HRH	HRH (C19-C35)	0.80	mg/L	0.22	10/17/19 19:57	
KS MRH/HRH	MRH (C9-C18)	0.14	mg/L	0.065	10/17/19 19:57	
KS LRH: EPA 5030B/8015C	Preservation pH	1.0			10/18/19 17:07	
EPA 6010	Barium, Dissolved	0.13	mg/L	0.0050	10/17/19 12:34	
EPA 5030B/8260	Preservation pH	3.0		0.10	10/15/19 09:30	pH
60318015012	MW-5					
KS MRH/HRH	HRH (C19-C35)	3.1	mg/L	0.23	10/17/19 20:05	
KS MRH/HRH	MRH (C9-C18)	0.33	mg/L	0.068	10/17/19 20:05	
KS LRH: EPA 5030B/8015C	Preservation pH	1.0			10/18/19 17:22	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60318015012	MW-5					
EPA 6010	Barium, Dissolved	0.40	mg/L	0.0050	10/17/19 12:36	
EPA 5030B/8260	p-Isopropyltoluene	0.0016	mg/L	0.0010	10/15/19 09:45	
EPA 5030B/8260	Preservation pH	1.0		0.10	10/15/19 09:45	
60318015013	MW-7					
KS MRH/HRH	HRH (C19-C35)	0.78	mg/L	0.22	10/17/19 20:14	
KS MRH/HRH	MRH (C9-C18)	0.16	mg/L	0.065	10/17/19 20:14	
KS LRH: EPA 5030B/8015C	Preservation pH	1.0			10/18/19 17:37	
EPA 6010	Barium, Dissolved	0.035	mg/L	0.0050	10/17/19 12:39	
EPA 8270	2,6-Dinitrotoluene	18.2	ug/L	10.0	10/16/19 14:11	
EPA 5030B/8260	Preservation pH	1.0		0.10	10/15/19 09:59	
60318015014	TRIP BLANK					
EPA 5030B/8260	Preservation pH	1.0		0.10	10/15/19 08:33	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: KS MRH/HRH

Description: KS MRH/HRH

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

12 samples were analyzed for KS MRH/HRH. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8082

Description: 8082 GCS PCB SW

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

6 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 615740

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- SB-3 (18-19) (Lab ID: 60318015003)
 - Decachlorobiphenyl (S)
- SB-4 (11.5-12.5) (Lab ID: 60318015004)
 - Decachlorobiphenyl (S)
- SB-5 (8-10) (Lab ID: 60318015006)
 - Decachlorobiphenyl (S)
- SB-6 (4-6) (Lab ID: 60318015007)
 - Decachlorobiphenyl (S)
- SB-7 (24-25) (Lab ID: 60318015008)
 - Decachlorobiphenyl (S)

QC Batch: 615926

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 2514309)
 - Decachlorobiphenyl (S)
- LCS (Lab ID: 2514310)
 - Decachlorobiphenyl (S)
- SB-5 (4-5) (Lab ID: 60318015005)
 - Decachlorobiphenyl (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8082

Description: 8082 GCS PCB SW

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8082

Description: 8082 GCS PCB, RV

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8015B

Description: LRH (C5 - C8) Soil

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

7 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 615648

S0: Surrogate recovery outside laboratory control limits.

- SB-2 (22-23) (Lab ID: 60318015002)
 - Dibromofluoromethane (S)
- SB-5 (8-10) (Lab ID: 60318015006)
 - Dibromofluoromethane (S)
- SB-7 (24-25) (Lab ID: 60318015008)
 - Dibromofluoromethane (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: KS LRH: EPA 5030B/8015C

Description: LRH (C5 - C8) Water

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

5 samples were analyzed for KS LRH: EPA 5030B/8015C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- MW-1 (Lab ID: 60318015009)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 6010

Description: 6010 MET ICP Red. Interference

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 615870

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60317916005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2514111)
 - Barium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 6010

Description: 6010 MET ICP, Dissolved (LF)

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 7470

Description: 7470 Mercury, Dissolved (LF)

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

5 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 7471

Description: 7471 Mercury

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

8 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8270

Description: 8270 MSSV Semivolatiles

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 615766

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- SB-3 (18-19) (Lab ID: 60318015003)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

QC Batch: 616052

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- SB-5 (4-5) (Lab ID: 60318015005)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8270

Description: 8270 MSSV Semivolatiles

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 615766

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- SB-3 (18-19) (Lab ID: 60318015003)
- Nitrobenzene-d5 (S)

QC Batch: 616052

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- SB-5 (4-5) (Lab ID: 60318015005)
- Nitrobenzene-d5 (S)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

3 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 615743

S0: Surrogate recovery outside laboratory control limits.

- LCS (Lab ID: 2513631)
- Phenol-d6 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- BLANK (Lab ID: 2513630)
- Phenol-d6 (S)
- MW-5 (Lab ID: 60318015012)
- 2-Fluorophenol (S)
- Phenol-d6 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8260B

Description: 8260 MSV 5035A VOA

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

7 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A/5030 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 615702

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2513512)
- p-Isopropyltoluene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 615702

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60318038002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2513513)
 - 1,1,2,2-Tetrachloroethane
- MSD (Lab ID: 2513514)
 - 1,2,4-Trichlorobenzene

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 8260B

Description: 8260 MSV 5035A VOA

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

QC Batch: 615702

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60318038002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Hexachloro-1,3-butadiene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Method: EPA 5030B/8260

Description: 8260 MSV

Client: ENVIRONMENTAL WORKS

Date: October 18, 2019

General Information:

6 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- MW-3 (Lab ID: 60318015011)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 615872

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2514119)
- p-Isopropyltoluene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 615697

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 615872

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-1 (26-27) **Lab ID: 60318015001** Collected: 10/10/19 10:10 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	30.4	mg/kg	10.2	1	10/15/19 12:07	10/15/19 16:10		
MRH (C9-C18)	ND	mg/kg	7.7	1	10/15/19 12:07	10/15/19 16:10		
Surrogates								
1-Chloro-octadecane (S)	115	%	40-140	1	10/15/19 12:07	10/15/19 16:10	3386-33-2	
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	7.7	1	10/15/19 08:59	10/16/19 17:15		
Surrogates								
4-Bromofluorobenzene (S)	98	%	76-123	1	10/15/19 08:59	10/16/19 17:15	460-00-4	
Dibromofluoromethane (S)	81	%	70-130	1	10/15/19 08:59	10/16/19 17:15	1868-53-7	
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.0	mg/kg	0.99	1	10/15/19 14:16	10/16/19 14:34	7440-38-2	
Barium	200	mg/kg	0.50	1	10/15/19 14:16	10/16/19 14:34	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	10/15/19 14:16	10/16/19 14:34	7440-43-9	
Chromium	21.6	mg/kg	0.50	1	10/15/19 14:16	10/16/19 14:34	7440-47-3	
Lead	12.2	mg/kg	0.99	1	10/15/19 14:16	10/16/19 14:34	7439-92-1	
Selenium	ND	mg/kg	1.5	1	10/15/19 14:16	10/16/19 14:34	7782-49-2	
Silver	ND	mg/kg	0.69	1	10/15/19 14:16	10/16/19 14:34	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.059	1	10/15/19 10:38	10/15/19 15:00	7439-97-6	
8260 MSV 5035A VOA Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030								
Acetone	ND	mg/kg	0.023	1	10/15/19 08:35	10/15/19 10:09	67-64-1	
Benzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	71-43-2	
Bromobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	108-86-1	
Bromochloromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-27-4	
Bromoform	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-25-2	
Bromomethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:09	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.028	1	10/15/19 08:35	10/15/19 10:09	98-06-6	
Carbon disulfide	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	108-90-7	
Chloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-00-3	
Chloroform	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	67-66-3	
Chloromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:09	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	124-48-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-1 (26-27)** Lab ID: **60318015001** Collected: 10/10/19 10:10 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	106-93-4	
Dibromomethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	87-68-3	
2-Hexanone	ND	mg/kg	0.023	1	10/15/19 08:35	10/15/19 10:09	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:09	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	1634-04-4	
Naphthalene	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:09	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	103-65-1	
Styrene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	127-18-4	
Toluene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	79-00-5	
Trichloroethene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	108-67-8	
Vinyl chloride	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	75-01-4	
Xylene (Total)	ND	mg/kg	0.0057	1	10/15/19 08:35	10/15/19 10:09	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1	10/15/19 08:35	10/15/19 10:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-1 (26-27) **Lab ID: 60318015001** Collected: 10/10/19 10:10 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Surrogates								
4-Bromofluorobenzene (S)	111	%	80-120	1	10/15/19 08:35	10/15/19 10:09	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	80-124	1	10/15/19 08:35	10/15/19 10:09	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	24.7	%	0.50	1		10/14/19 11:37		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-2 (22-23) **Lab ID: 60318015002** Collected: 10/10/19 09:35 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	21.8	mg/kg	9.3	1	10/15/19 12:07	10/15/19 16:18		
MRH (C9-C18)	ND	mg/kg	7.0	1	10/15/19 12:07	10/15/19 16:18		
Surrogates								
1-Chloro-octadecane (S)	110	%	40-140	1	10/15/19 12:07	10/15/19 16:18	3386-33-2	
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	5.4	1	10/15/19 08:59	10/16/19 17:31		
Surrogates								
4-Bromofluorobenzene (S)	97	%	76-123	1	10/15/19 08:59	10/16/19 17:31	460-00-4	
Dibromofluoromethane (S)	69	%	70-130	1	10/15/19 08:59	10/16/19 17:31	1868-53-7	S0
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.0	mg/kg	1.2	1	10/15/19 14:16	10/16/19 14:36	7440-38-2	
Barium	183	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:36	7440-39-3	
Cadmium	ND	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:36	7440-43-9	
Chromium	20.0	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:36	7440-47-3	
Lead	11.1	mg/kg	1.2	1	10/15/19 14:16	10/16/19 14:36	7439-92-1	
Selenium	ND	mg/kg	1.8	1	10/15/19 14:16	10/16/19 14:36	7782-49-2	
Silver	ND	mg/kg	0.85	1	10/15/19 14:16	10/16/19 14:36	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.052	1	10/15/19 10:38	10/15/19 15:07	7439-97-6	
8260 MSV 5035A VOA Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030								
Acetone	ND	mg/kg	0.022	1	10/15/19 08:35	10/15/19 10:25	67-64-1	
Benzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	71-43-2	
Bromobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	108-86-1	
Bromochloromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-27-4	
Bromoform	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-25-2	
Bromomethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:25	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.028	1	10/15/19 08:35	10/15/19 10:25	98-06-6	
Carbon disulfide	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	56-23-5	
Chlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	108-90-7	
Chloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-00-3	
Chloroform	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	67-66-3	
Chloromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:25	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	124-48-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-2 (22-23)** Lab ID: **60318015002** Collected: 10/10/19 09:35 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	106-93-4	
Dibromomethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	87-68-3	
2-Hexanone	ND	mg/kg	0.022	1	10/15/19 08:35	10/15/19 10:25	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:25	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	1634-04-4	
Naphthalene	ND	mg/kg	0.011	1	10/15/19 08:35	10/15/19 10:25	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	103-65-1	
Styrene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	127-18-4	
Toluene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	79-00-5	
Trichloroethene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	108-67-8	
Vinyl chloride	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	75-01-4	
Xylene (Total)	ND	mg/kg	0.0056	1	10/15/19 08:35	10/15/19 10:25	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	10/15/19 08:35	10/15/19 10:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-2 (22-23) **Lab ID: 60318015002** Collected: 10/10/19 09:35 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1	10/15/19 08:35	10/15/19 10:25	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	80-124	1	10/15/19 08:35	10/15/19 10:25	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	23.9	%	0.50	1		10/14/19 11:38		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-3 (18-19) **Lab ID: 60318015003** Collected: 10/10/19 10:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	34.2	mg/kg	9.0	1	10/15/19 12:07	10/15/19 16:26		
MRH (C9-C18)	ND	mg/kg	6.8	1	10/15/19 12:07	10/15/19 16:26		
Surrogates								
1-Chloro-octadecane (S)	104	%	40-140	1	10/15/19 12:07	10/15/19 16:26	3386-33-2	
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.1	1	10/15/19 12:22	10/16/19 15:02	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	64	%	28-143	1	10/15/19 12:22	10/16/19 15:02	2051-24-3	CL
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	5.1	1	10/15/19 08:59	10/16/19 17:46		
Surrogates								
4-Bromofluorobenzene (S)	97	%	76-123	1	10/15/19 08:59	10/16/19 17:46	460-00-4	
Dibromofluoromethane (S)	72	%	70-130	1	10/15/19 08:59	10/16/19 17:46	1868-53-7	
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.2	mg/kg	1.2	1	10/15/19 14:16	10/16/19 14:39	7440-38-2	
Barium	156	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:39	7440-39-3	
Cadmium	ND	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:39	7440-43-9	
Chromium	20.7	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:39	7440-47-3	
Lead	27.2	mg/kg	1.2	1	10/15/19 14:16	10/16/19 14:39	7439-92-1	
Selenium	ND	mg/kg	1.8	1	10/15/19 14:16	10/16/19 14:39	7782-49-2	
Silver	ND	mg/kg	0.86	1	10/15/19 14:16	10/16/19 14:39	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.052	1	10/15/19 10:38	10/15/19 15:10	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	83-32-9	
Acenaphthylene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	208-96-8	
Anthracene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	120-12-7	
Benzo(a)anthracene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	56-55-3	
Benzo(a)pyrene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	207-08-9	
Benzoic Acid	ND	mg/kg	20.9	10	10/15/19 16:49	10/16/19 14:56	65-85-0	
Benzyl alcohol	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	100-51-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-3 (18-19) **Lab ID: 60318015003** Collected: 10/10/19 10:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Bromophenylphenyl ether	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	101-55-3	
Butylbenzylphthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	85-68-7	
Carbazole	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	59-50-7	
4-Chloroaniline	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	108-60-1	
2-Chloronaphthalene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	91-58-7	
2-Chlorophenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	7005-72-3	
Chrysene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	53-70-3	
Dibenzofuran	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	120-83-2	
Diethylphthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	105-67-9	
Dimethylphthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	131-11-3	
Di-n-butylphthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	20.9	10	10/15/19 16:49	10/16/19 14:56	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	20.9	10	10/15/19 16:49	10/16/19 14:56	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	606-20-2	
Di-n-octylphthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	117-81-7	
Fluoranthene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	206-44-0	
Fluorene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	87-68-3	
Hexachlorobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	77-47-4	
Hexachloroethane	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	193-39-5	
Isophorone	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	78-59-1	
2-Methylnaphthalene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	15831-10-4	
Naphthalene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	91-20-3	
2-Nitroaniline	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	88-74-4	
3-Nitroaniline	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	99-09-2	
4-Nitroaniline	ND	mg/kg	8.3	10	10/15/19 16:49	10/16/19 14:56	100-01-6	
Nitrobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	98-95-3	
2-Nitrophenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	88-75-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-3 (18-19) **Lab ID: 60318015003** Collected: 10/10/19 10:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
4-Nitrophenol	ND	mg/kg	20.9	10	10/15/19 16:49	10/16/19 14:56	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	86-30-6	
Pentachlorophenol	ND	mg/kg	20.9	10	10/15/19 16:49	10/16/19 14:56	87-86-5	
Phenanthrene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	85-01-8	
Phenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	108-95-2	
Pyrene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	129-00-0	
Pyridine	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	4.1	10	10/15/19 16:49	10/16/19 14:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	39-123	10	10/15/19 16:49	10/16/19 14:56	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	47-124	10	10/15/19 16:49	10/16/19 14:56	321-60-8	S4
Terphenyl-d14 (S)	0	%	32-149	10	10/15/19 16:49	10/16/19 14:56	1718-51-0	S4
Phenol-d6 (S)	0	%	40-119	10	10/15/19 16:49	10/16/19 14:56	13127-88-3	S4
2-Fluorophenol (S)	0	%	31-126	10	10/15/19 16:49	10/16/19 14:56	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	14-134	10	10/15/19 16:49	10/16/19 14:56	118-79-6	S4
8260 MSV 5035A VOA								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030								
Acetone	ND	mg/kg	0.020	1	10/15/19 08:35	10/15/19 10:41	67-64-1	
Benzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	71-43-2	
Bromobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	108-86-1	
Bromochloromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-27-4	
Bromoform	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-25-2	
Bromomethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.0099	1	10/15/19 08:35	10/15/19 10:41	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.025	1	10/15/19 08:35	10/15/19 10:41	98-06-6	
Carbon disulfide	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	56-23-5	
Chlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	108-90-7	
Chloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-00-3	
Chloroform	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	67-66-3	
Chloromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0099	1	10/15/19 08:35	10/15/19 10:41	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	106-93-4	
Dibromomethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-3 (18-19)** Lab ID: **60318015003** Collected: 10/10/19 10:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Dichlorodifluoromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	87-68-3	
2-Hexanone	ND	mg/kg	0.020	1	10/15/19 08:35	10/15/19 10:41	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0099	1	10/15/19 08:35	10/15/19 10:41	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	1634-04-4	
Naphthalene	ND	mg/kg	0.0099	1	10/15/19 08:35	10/15/19 10:41	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	103-65-1	
Styrene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	127-18-4	
Toluene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	79-00-5	
Trichloroethene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	108-67-8	
Vinyl chloride	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	75-01-4	
Xylene (Total)	ND	mg/kg	0.0049	1	10/15/19 08:35	10/15/19 10:41	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1	10/15/19 08:35	10/15/19 10:41	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1	10/15/19 08:35	10/15/19 10:41	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	80-124	1	10/15/19 08:35	10/15/19 10:41	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture **21.8** % 0.50 1 10/14/19 11:38

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-4 (11.5-12.5) **Lab ID: 60318015004** Collected: 10/10/19 11:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	88.8	mg/kg	9.6	1	10/15/19 12:07	10/15/19 16:34		
MRH (C9-C18)	16.7	mg/kg	7.2	1	10/15/19 12:07	10/15/19 16:34		
Surrogates								
1-Chloro-octadecane (S)	122	%	40-140	1	10/15/19 12:07	10/15/19 16:34	3386-33-2	
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.6	1	10/15/19 12:22	10/16/19 15:20	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	68	%	28-143	1	10/15/19 12:22	10/16/19 15:20	2051-24-3	CL
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	5.3	1	10/15/19 08:59	10/16/19 18:01		
Surrogates								
4-Bromofluorobenzene (S)	97	%	76-123	1	10/15/19 08:59	10/16/19 18:01	460-00-4	
Dibromofluoromethane (S)	72	%	70-130	1	10/15/19 08:59	10/16/19 18:01	1868-53-7	
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.1	mg/kg	0.92	1	10/15/19 14:16	10/16/19 14:41	7440-38-2	
Barium	242	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:41	7440-39-3	
Cadmium	0.52	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:41	7440-43-9	
Chromium	19.4	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:41	7440-47-3	
Lead	23.4	mg/kg	0.92	1	10/15/19 14:16	10/16/19 14:41	7439-92-1	
Selenium	ND	mg/kg	1.4	1	10/15/19 14:16	10/16/19 14:41	7782-49-2	
Silver	ND	mg/kg	0.65	1	10/15/19 14:16	10/16/19 14:41	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.052	1	10/15/19 10:38	10/15/19 15:12	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	83-32-9	
Acenaphthylene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	208-96-8	
Anthracene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	207-08-9	
Benzoic Acid	ND	mg/kg	2.0	1	10/15/19 16:49	10/16/19 15:18	65-85-0	
Benzyl alcohol	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	100-51-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-4 (11.5-12.5) **Lab ID: 60318015004** Collected: 10/10/19 11:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Bromophenylphenyl ether	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	85-68-7	
Carbazole	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	59-50-7	
4-Chloroaniline	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	111-94-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	91-58-7	
2-Chlorophenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	7005-72-3	
Chrysene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	53-70-3	
Dibenzofuran	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	120-83-2	
Diethylphthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	105-67-9	
Dimethylphthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	2.0	1	10/15/19 16:49	10/16/19 15:18	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.0	1	10/15/19 16:49	10/16/19 15:18	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	117-81-7	
Fluoranthene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	206-44-0	
Fluorene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	77-47-4	
Hexachloroethane	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	193-39-5	
Isophorone	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	15831-10-4	
Naphthalene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	91-20-3	
2-Nitroaniline	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	88-74-4	
3-Nitroaniline	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	99-09-2	
4-Nitroaniline	ND	mg/kg	0.80	1	10/15/19 16:49	10/16/19 15:18	100-01-6	
Nitrobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	98-95-3	
2-Nitrophenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	88-75-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-4 (11.5-12.5) **Lab ID: 60318015004** Collected: 10/10/19 11:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Nitrophenol	ND	mg/kg	2.0	1	10/15/19 16:49	10/16/19 15:18	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	86-30-6	
Pentachlorophenol	ND	mg/kg	2.0	1	10/15/19 16:49	10/16/19 15:18	87-86-5	
Phenanthrene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	85-01-8	
Phenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	108-95-2	
Pyrene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	129-00-0	
Pyridine	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.40	1	10/15/19 16:49	10/16/19 15:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%	39-123	1	10/15/19 16:49	10/16/19 15:18	4165-60-0	
2-Fluorobiphenyl (S)	80	%	47-124	1	10/15/19 16:49	10/16/19 15:18	321-60-8	
Terphenyl-d14 (S)	84	%	32-149	1	10/15/19 16:49	10/16/19 15:18	1718-51-0	
Phenol-d6 (S)	69	%	40-119	1	10/15/19 16:49	10/16/19 15:18	13127-88-3	
2-Fluorophenol (S)	72	%	31-126	1	10/15/19 16:49	10/16/19 15:18	367-12-4	
2,4,6-Tribromophenol (S)	88	%	14-134	1	10/15/19 16:49	10/16/19 15:18	118-79-6	
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Acetone	ND	mg/kg	0.021	1	10/15/19 08:35	10/15/19 10:56	67-64-1	
Benzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	71-43-2	
Bromobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-27-4	
Bromoform	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-25-2	
Bromomethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 10:56	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.026	1	10/15/19 08:35	10/15/19 10:56	98-06-6	
Carbon disulfide	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	108-90-7	
Chloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-00-3	
Chloroform	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	67-66-3	
Chloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 10:56	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	106-93-4	
Dibromomethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-4 (11.5-12.5) **Lab ID: 60318015004** Collected: 10/10/19 11:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Dichlorodifluoromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	87-68-3	
2-Hexanone	ND	mg/kg	0.021	1	10/15/19 08:35	10/15/19 10:56	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 10:56	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	1634-04-4	
Naphthalene	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 10:56	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	103-65-1	
Styrene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	127-18-4	
Toluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	79-00-5	
Trichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	108-67-8	
Vinyl chloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	75-01-4	
Xylene (Total)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 10:56	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1	10/15/19 08:35	10/15/19 10:56	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1	10/15/19 08:35	10/15/19 10:56	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	80-124	1	10/15/19 08:35	10/15/19 10:56	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	19.2	%	0.50	1	10/14/19 11:38
------------------	-------------	---	------	---	----------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (4-5) **Lab ID: 60318015005** Collected: 10/10/19 13:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	12672-29-6	
PCB-1254 (Aroclor 1254)	710	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	229	1	10/15/19 16:12	10/16/19 13:33	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	69	%	28-143	1	10/15/19 16:12	10/16/19 13:33	2051-24-3	CL
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	14.0	mg/kg	0.91	1	10/15/19 14:16	10/16/19 14:43	7440-38-2	
Barium	244	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:43	7440-39-3	
Cadmium	0.51	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:43	7440-43-9	
Chromium	27.2	mg/kg	0.46	1	10/15/19 14:16	10/16/19 14:43	7440-47-3	
Lead	432	mg/kg	0.91	1	10/15/19 14:16	10/16/19 14:43	7439-92-1	
Selenium	ND	mg/kg	1.4	1	10/15/19 14:16	10/16/19 14:43	7782-49-2	
Silver	ND	mg/kg	0.64	1	10/15/19 14:16	10/16/19 14:43	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.064	mg/kg	0.052	1	10/15/19 12:45	10/15/19 15:51	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	83-32-9	
Acenaphthylene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	208-96-8	
Anthracene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	120-12-7	
Benzo(a)anthracene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	56-55-3	
Benzo(a)pyrene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	207-08-9	
Benzoic Acid	ND	mg/kg	124	10	10/16/19 10:49	10/17/19 11:56	65-85-0	
Benzyl alcohol	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	100-51-6	
4-Bromophenylphenyl ether	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	101-55-3	
Butylbenzylphthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	85-68-7	
Carbazole	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	59-50-7	
4-Chloroaniline	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	108-60-1	
2-Chloronaphthalene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	91-58-7	
2-Chlorophenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	7005-72-3	
Chrysene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	218-01-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (4-5) **Lab ID: 60318015005** Collected: 10/10/19 13:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Dibenz(a,h)anthracene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	53-70-3	
Dibenzofuran	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	120-83-2	
Diethylphthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	105-67-9	
Dimethylphthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	131-11-3	
Di-n-butylphthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	124	10	10/16/19 10:49	10/17/19 11:56	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	124	10	10/16/19 10:49	10/17/19 11:56	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	606-20-2	
Di-n-octylphthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	117-81-7	
Fluoranthene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	206-44-0	
Fluorene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	87-68-3	
Hexachlorobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	77-47-4	
Hexachloroethane	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	193-39-5	
Isophorone	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	78-59-1	
2-Methylnaphthalene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	15831-10-4	
Naphthalene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	91-20-3	
2-Nitroaniline	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	88-74-4	
3-Nitroaniline	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	99-09-2	
4-Nitroaniline	ND	mg/kg	48.9	10	10/16/19 10:49	10/17/19 11:56	100-01-6	
Nitrobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	98-95-3	
2-Nitrophenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	88-75-5	
4-Nitrophenol	ND	mg/kg	124	10	10/16/19 10:49	10/17/19 11:56	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	86-30-6	
Pentachlorophenol	ND	mg/kg	124	10	10/16/19 10:49	10/17/19 11:56	87-86-5	
Phenanthrene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	85-01-8	
Phenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	108-95-2	
Pyrene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	129-00-0	
Pyridine	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	24.5	10	10/16/19 10:49	10/17/19 11:56	88-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (4-5) **Lab ID: 60318015005** Collected: 10/10/19 13:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
Surrogates								
Nitrobenzene-d5 (S)	0	%	39-123	10	10/16/19 10:49	10/17/19 11:56	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	47-124	10	10/16/19 10:49	10/17/19 11:56	321-60-8	S4
Terphenyl-d14 (S)	0	%	32-149	10	10/16/19 10:49	10/17/19 11:56	1718-51-0	S4
Phenol-d6 (S)	0	%	40-119	10	10/16/19 10:49	10/17/19 11:56	13127-88-3	S4
2-Fluorophenol (S)	0	%	31-126	10	10/16/19 10:49	10/17/19 11:56	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	14-134	10	10/16/19 10:49	10/17/19 11:56	118-79-6	S4
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	23.9	%	0.50	1		10/14/19 11:38		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (8-10) **Lab ID: 60318015006** Collected: 10/10/19 13:30 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	327	mg/kg	9.2	1	10/15/19 12:07	10/15/19 16:42		
MRH (C9-C18)	29.5	mg/kg	6.9	1	10/15/19 12:07	10/15/19 16:42		
Surrogates								
1-Chloro-octadecane (S)	116	%	40-140	1	10/15/19 12:07	10/15/19 16:42	3386-33-2	
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	12672-29-6	
PCB-1254 (Aroclor 1254)	100	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.0	1	10/15/19 12:22	10/16/19 15:38	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	74	%	28-143	1	10/15/19 12:22	10/16/19 15:38	2051-24-3	CL
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	5.7	1	10/15/19 08:59	10/16/19 18:16		
Surrogates								
4-Bromofluorobenzene (S)	99	%	76-123	1	10/15/19 08:59	10/16/19 18:16	460-00-4	
Dibromofluoromethane (S)	68	%	70-130	1	10/15/19 08:59	10/16/19 18:16	1868-53-7	SO
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.0	mg/kg	1.3	1	10/15/19 14:16	10/16/19 14:46	7440-38-2	
Barium	156	mg/kg	0.63	1	10/15/19 14:16	10/16/19 14:46	7440-39-3	
Cadmium	ND	mg/kg	0.63	1	10/15/19 14:16	10/16/19 14:46	7440-43-9	
Chromium	19.5	mg/kg	0.63	1	10/15/19 14:16	10/16/19 14:46	7440-47-3	
Lead	25.9	mg/kg	1.3	1	10/15/19 14:16	10/16/19 14:46	7439-92-1	
Selenium	ND	mg/kg	1.9	1	10/15/19 14:16	10/16/19 14:46	7782-49-2	
Silver	ND	mg/kg	0.88	1	10/15/19 14:16	10/16/19 14:46	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.055	1	10/15/19 10:38	10/15/19 15:14	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	83-32-9	
Acenaphthylene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	208-96-8	
Anthracene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 15:41	65-85-0	
Benzyl alcohol	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	100-51-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (8-10) **Lab ID: 60318015006** Collected: 10/10/19 13:30 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Bromophenylphenyl ether	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	85-68-7	
Carbazole	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	59-50-7	
4-Chloroaniline	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	111-94-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	91-58-7	
2-Chlorophenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	7005-72-3	
Chrysene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	53-70-3	
Dibenzofuran	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	120-83-2	
Diethylphthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	105-67-9	
Dimethylphthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 15:41	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 15:41	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	117-81-7	
Fluoranthene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	206-44-0	
Fluorene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	77-47-4	
Hexachloroethane	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	193-39-5	
Isophorone	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	15831-10-4	
Naphthalene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	91-20-3	
2-Nitroaniline	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	88-74-4	
3-Nitroaniline	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	99-09-2	
4-Nitroaniline	ND	mg/kg	0.84	1	10/15/19 16:49	10/16/19 15:41	100-01-6	
Nitrobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	98-95-3	
2-Nitrophenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	88-75-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-5 (8-10) **Lab ID: 60318015006** Collected: 10/10/19 13:30 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles								
Analytical Method: EPA 8270 Preparation Method: EPA 3546								
4-Nitrophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 15:41	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	86-30-6	
Pentachlorophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 15:41	87-86-5	
Phenanthrene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	85-01-8	
Phenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	108-95-2	
Pyrene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	129-00-0	
Pyridine	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.42	1	10/15/19 16:49	10/16/19 15:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%	39-123	1	10/15/19 16:49	10/16/19 15:41	4165-60-0	
2-Fluorobiphenyl (S)	82	%	47-124	1	10/15/19 16:49	10/16/19 15:41	321-60-8	
Terphenyl-d14 (S)	89	%	32-149	1	10/15/19 16:49	10/16/19 15:41	1718-51-0	
Phenol-d6 (S)	71	%	40-119	1	10/15/19 16:49	10/16/19 15:41	13127-88-3	
2-Fluorophenol (S)	73	%	31-126	1	10/15/19 16:49	10/16/19 15:41	367-12-4	
2,4,6-Tribromophenol (S)	89	%	14-134	1	10/15/19 16:49	10/16/19 15:41	118-79-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030								
Acetone	ND	mg/kg	0.021	1	10/15/19 08:35	10/15/19 11:11	67-64-1	
Benzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	71-43-2	
Bromobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	108-86-1	
Bromochloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-27-4	
Bromoform	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-25-2	
Bromomethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 11:11	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.026	1	10/15/19 08:35	10/15/19 11:11	98-06-6	
Carbon disulfide	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	56-23-5	
Chlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	108-90-7	
Chloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-00-3	
Chloroform	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	67-66-3	
Chloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 11:11	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	106-93-4	
Dibromomethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-5 (8-10)** Lab ID: **60318015006** Collected: 10/10/19 13:30 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Dichlorodifluoromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	87-68-3	
2-Hexanone	ND	mg/kg	0.021	1	10/15/19 08:35	10/15/19 11:11	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 11:11	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	1634-04-4	
Naphthalene	ND	mg/kg	0.010	1	10/15/19 08:35	10/15/19 11:11	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	103-65-1	
Styrene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	127-18-4	
Toluene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	79-00-5	
Trichloroethene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	108-67-8	
Vinyl chloride	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	75-01-4	
Xylene (Total)	ND	mg/kg	0.0052	1	10/15/19 08:35	10/15/19 11:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1	10/15/19 08:35	10/15/19 11:11	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120	1	10/15/19 08:35	10/15/19 11:11	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	80-124	1	10/15/19 08:35	10/15/19 11:11	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture **22.1** % 0.50 1 10/14/19 11:38

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-6 (4-6) **Lab ID: 60318015007** Collected: 10/10/19 13:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	92.5	mg/kg	9.5	1	10/15/19 12:07	10/15/19 16:51		
MRH (C9-C18)	12.7	mg/kg	7.1	1	10/15/19 12:07	10/15/19 16:51		
Surrogates								
1-Chloro-octadecane (S)	130	%	40-140	1	10/15/19 12:07	10/15/19 16:51	3386-33-2	
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.4	1	10/15/19 12:22	10/16/19 15:56	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	71	%	28-143	1	10/15/19 12:22	10/16/19 15:56	2051-24-3	CL
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	6.1	1	10/15/19 08:59	10/16/19 18:31		
Surrogates								
4-Bromofluorobenzene (S)	98	%	76-123	1	10/15/19 08:59	10/16/19 18:31	460-00-4	
Dibromofluoromethane (S)	70	%	70-130	1	10/15/19 08:59	10/16/19 18:31	1868-53-7	
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.0	mg/kg	1.0	1	10/15/19 14:16	10/16/19 14:48	7440-38-2	
Barium	228	mg/kg	0.52	1	10/15/19 14:16	10/16/19 14:48	7440-39-3	
Cadmium	1.1	mg/kg	0.52	1	10/15/19 14:16	10/16/19 14:48	7440-43-9	
Chromium	16.6	mg/kg	0.52	1	10/15/19 14:16	10/16/19 14:48	7440-47-3	
Lead	118	mg/kg	1.0	1	10/15/19 14:16	10/16/19 14:48	7439-92-1	
Selenium	ND	mg/kg	1.6	1	10/15/19 14:16	10/16/19 14:48	7782-49-2	
Silver	ND	mg/kg	0.73	1	10/15/19 14:16	10/16/19 14:48	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.057	mg/kg	0.054	1	10/15/19 10:38	10/15/19 15:16	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	83-32-9	
Acenaphthylene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	208-96-8	
Anthracene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	207-08-9	
Benzoic Acid	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 16:03	65-85-0	
Benzyl alcohol	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	100-51-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-6 (4-6) **Lab ID: 60318015007** Collected: 10/10/19 13:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Bromophenylphenyl ether	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	85-68-7	
Carbazole	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	59-50-7	
4-Chloroaniline	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	111-94-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	91-58-7	
2-Chlorophenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	7005-72-3	
Chrysene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	53-70-3	
Dibenzofuran	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	120-83-2	
Diethylphthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	105-67-9	
Dimethylphthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 16:03	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 16:03	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	117-81-7	
Fluoranthene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	206-44-0	
Fluorene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	77-47-4	
Hexachloroethane	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	193-39-5	
Isophorone	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	15831-10-4	
Naphthalene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	91-20-3	
2-Nitroaniline	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	88-74-4	
3-Nitroaniline	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	99-09-2	
4-Nitroaniline	ND	mg/kg	0.82	1	10/15/19 16:49	10/16/19 16:03	100-01-6	
Nitrobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	98-95-3	
2-Nitrophenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	88-75-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-6 (4-6) **Lab ID: 60318015007** Collected: 10/10/19 13:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Nitrophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 16:03	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	86-30-6	
Pentachlorophenol	ND	mg/kg	2.1	1	10/15/19 16:49	10/16/19 16:03	87-86-5	
Phenanthrene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	85-01-8	
Phenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	108-95-2	
Pyrene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	129-00-0	
Pyridine	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.41	1	10/15/19 16:49	10/16/19 16:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	79	%	39-123	1	10/15/19 16:49	10/16/19 16:03	4165-60-0	
2-Fluorobiphenyl (S)	85	%	47-124	1	10/15/19 16:49	10/16/19 16:03	321-60-8	
Terphenyl-d14 (S)	93	%	32-149	1	10/15/19 16:49	10/16/19 16:03	1718-51-0	
Phenol-d6 (S)	73	%	40-119	1	10/15/19 16:49	10/16/19 16:03	13127-88-3	
2-Fluorophenol (S)	75	%	31-126	1	10/15/19 16:49	10/16/19 16:03	367-12-4	
2,4,6-Tribromophenol (S)	91	%	14-134	1	10/15/19 16:49	10/16/19 16:03	118-79-6	
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Acetone	ND	mg/kg	0.026	1	10/15/19 08:35	10/15/19 11:27	67-64-1	
Benzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	71-43-2	
Bromobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	108-86-1	
Bromochloromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-27-4	
Bromoform	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-25-2	
Bromomethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.013	1	10/15/19 08:35	10/15/19 11:27	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.032	1	10/15/19 08:35	10/15/19 11:27	98-06-6	
Carbon disulfide	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	56-23-5	
Chlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	108-90-7	
Chloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-00-3	
Chloroform	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	67-66-3	
Chloromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.013	1	10/15/19 08:35	10/15/19 11:27	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	106-93-4	
Dibromomethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-6 (4-6)** Lab ID: **60318015007** Collected: 10/10/19 13:50 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Dichlorodifluoromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	87-68-3	
2-Hexanone	ND	mg/kg	0.026	1	10/15/19 08:35	10/15/19 11:27	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	10/15/19 08:35	10/15/19 11:27	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	1634-04-4	
Naphthalene	ND	mg/kg	0.013	1	10/15/19 08:35	10/15/19 11:27	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	103-65-1	
Styrene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	127-18-4	
Toluene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	79-00-5	
Trichloroethene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	108-67-8	
Vinyl chloride	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	75-01-4	
Xylene (Total)	ND	mg/kg	0.0065	1	10/15/19 08:35	10/15/19 11:27	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1	10/15/19 08:35	10/15/19 11:27	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1	10/15/19 08:35	10/15/19 11:27	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	80-124	1	10/15/19 08:35	10/15/19 11:27	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture **23.0** % 0.50 1 10/14/19 11:38

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: SB-7 (24-25) **Lab ID: 60318015008** Collected: 10/10/19 14:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3546								
HRH (C19-C35)	43.4	mg/kg	10.4	1	10/15/19 12:07	10/15/19 16:59		
MRH (C9-C18)	ND	mg/kg	7.8	1	10/15/19 12:07	10/15/19 16:59		
Surrogates								
1-Chloro-octadecane (S)	114	%	40-140	1	10/15/19 12:07	10/15/19 16:59	3386-33-2	
8082 GCS PCB SW Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	66.0	1	10/15/19 12:22	10/16/19 16:13	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	63	%	28-143	1	10/15/19 12:22	10/16/19 16:13	2051-24-3	CL
LRH (C5 - C8) Soil Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
LRH (C5-C8)	ND	mg/kg	5.5	1	10/15/19 08:59	10/16/19 18:46		
Surrogates								
4-Bromofluorobenzene (S)	98	%	76-123	1	10/15/19 08:59	10/16/19 18:46	460-00-4	
Dibromofluoromethane (S)	68	%	70-130	1	10/15/19 08:59	10/16/19 18:46	1868-53-7	SO
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.6	mg/kg	0.87	1	10/15/19 14:16	10/16/19 14:51	7440-38-2	
Barium	243	mg/kg	0.43	1	10/15/19 14:16	10/16/19 14:51	7440-39-3	
Cadmium	ND	mg/kg	0.43	1	10/15/19 14:16	10/16/19 14:51	7440-43-9	
Chromium	26.3	mg/kg	0.43	1	10/15/19 14:16	10/16/19 14:51	7440-47-3	
Lead	14.0	mg/kg	0.87	1	10/15/19 14:16	10/16/19 14:51	7439-92-1	
Selenium	ND	mg/kg	1.3	1	10/15/19 14:16	10/16/19 14:51	7782-49-2	
Silver	ND	mg/kg	0.61	1	10/15/19 14:16	10/16/19 14:51	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.055	1	10/15/19 10:38	10/15/19 15:23	7439-97-6	
8270 MSSV Semivolatiles Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Acenaphthene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	83-32-9	
Acenaphthylene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	208-96-8	
Anthracene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	207-08-9	
Benzoic Acid	ND	mg/kg	2.2	1	10/15/19 16:49	10/16/19 16:26	65-85-0	
Benzyl alcohol	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	100-51-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-7 (24-25)** Lab ID: **60318015008** Collected: 10/10/19 14:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Bromophenylphenyl ether	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	101-55-3	
Butylbenzylphthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	85-68-7	
Carbazole	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	86-74-8	
4-Chloro-3-methylphenol	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	59-50-7	
4-Chloroaniline	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	111-91-1	
bis(2-Chloroethyl) ether	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	111-94-4	
bis(2-Chloroisopropyl) ether	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	108-60-1	
2-Chloronaphthalene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	91-58-7	
2-Chlorophenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	95-57-8	
4-Chlorophenylphenyl ether	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	7005-72-3	
Chrysene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	53-70-3	
Dibenzofuran	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	132-64-9	
1,2-Dichlorobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	106-46-7	
3,3'-Dichlorobenzidine	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	91-94-1	
2,4-Dichlorophenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	120-83-2	
Diethylphthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	84-66-2	
2,4-Dimethylphenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	105-67-9	
Dimethylphthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	131-11-3	
Di-n-butylphthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	mg/kg	2.2	1	10/15/19 16:49	10/16/19 16:26	534-52-1	
2,4-Dinitrophenol	ND	mg/kg	2.2	1	10/15/19 16:49	10/16/19 16:26	51-28-5	
2,4-Dinitrotoluene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	121-14-2	
2,6-Dinitrotoluene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	606-20-2	
Di-n-octylphthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	117-81-7	
Fluoranthene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	206-44-0	
Fluorene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	86-73-7	
Hexachloro-1,3-butadiene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	87-68-3	
Hexachlorobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	118-74-1	
Hexachlorocyclopentadiene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	77-47-4	
Hexachloroethane	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	193-39-5	
Isophorone	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	78-59-1	
2-Methylnaphthalene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	15831-10-4	
Naphthalene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	91-20-3	
2-Nitroaniline	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	88-74-4	
3-Nitroaniline	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	99-09-2	
4-Nitroaniline	ND	mg/kg	0.88	1	10/15/19 16:49	10/16/19 16:26	100-01-6	
Nitrobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	98-95-3	
2-Nitrophenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	88-75-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-7 (24-25)** Lab ID: **60318015008** Collected: 10/10/19 14:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles		Analytical Method: EPA 8270 Preparation Method: EPA 3546						
4-Nitrophenol	ND	mg/kg	2.2	1	10/15/19 16:49	10/16/19 16:26	100-02-7	
N-Nitroso-di-n-propylamine	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	621-64-7	
N-Nitrosodiphenylamine	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	86-30-6	
Pentachlorophenol	ND	mg/kg	2.2	1	10/15/19 16:49	10/16/19 16:26	87-86-5	
Phenanthrene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	85-01-8	
Phenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	108-95-2	
Pyrene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	129-00-0	
Pyridine	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	110-86-1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	120-82-1	
2,4,5-Trichlorophenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	95-95-4	
2,4,6-Trichlorophenol	ND	mg/kg	0.44	1	10/15/19 16:49	10/16/19 16:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	80	%	39-123	1	10/15/19 16:49	10/16/19 16:26	4165-60-0	
2-Fluorobiphenyl (S)	85	%	47-124	1	10/15/19 16:49	10/16/19 16:26	321-60-8	
Terphenyl-d14 (S)	91	%	32-149	1	10/15/19 16:49	10/16/19 16:26	1718-51-0	
Phenol-d6 (S)	71	%	40-119	1	10/15/19 16:49	10/16/19 16:26	13127-88-3	
2-Fluorophenol (S)	73	%	31-126	1	10/15/19 16:49	10/16/19 16:26	367-12-4	
2,4,6-Tribromophenol (S)	89	%	14-134	1	10/15/19 16:49	10/16/19 16:26	118-79-6	
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Acetone	ND	mg/kg	0.019	1	10/15/19 08:35	10/15/19 11:43	67-64-1	
Benzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-27-4	
Bromoform	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-25-2	
Bromomethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.0096	1	10/15/19 08:35	10/15/19 11:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.024	1	10/15/19 08:35	10/15/19 11:43	98-06-6	
Carbon disulfide	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	108-90-7	
Chloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-00-3	
Chloroform	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	67-66-3	
Chloromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0096	1	10/15/19 08:35	10/15/19 11:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	106-93-4	
Dibromomethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: **SB-7 (24-25)** Lab ID: **60318015008** Collected: 10/10/19 14:40 Received: 10/11/19 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030						
Dichlorodifluoromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	540-59-0	
1,1-Dichloroethene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	87-68-3	
2-Hexanone	ND	mg/kg	0.019	1	10/15/19 08:35	10/15/19 11:43	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	99-87-6	L1
Methylene Chloride	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0096	1	10/15/19 08:35	10/15/19 11:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0096	1	10/15/19 08:35	10/15/19 11:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	103-65-1	
Styrene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	127-18-4	
Toluene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	108-67-8	
Vinyl chloride	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.0048	1	10/15/19 08:35	10/15/19 11:43	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	10/15/19 08:35	10/15/19 11:43	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1	10/15/19 08:35	10/15/19 11:43	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	80-124	1	10/15/19 08:35	10/15/19 11:43	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	26.0	%	0.50	1	10/14/19 11:38
------------------	-------------	---	------	---	----------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-1 **Lab ID: 60318015009** Collected: 10/10/19 10:45 Received: 10/11/19 15:41 Matrix: Water

Comments: • Vials provided for 8260 Volatiles and KS LRH are unpreserved; sample effervescence.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3510C								
HRH (C19-C35)	0.95	mg/L	0.22	1	10/16/19 16:48	10/17/19 19:41		
MRH (C9-C18)	0.15	mg/L	0.065	1	10/16/19 16:48	10/17/19 19:41		
Surrogates								
1-Chloro-octadecane (S)	49	%	40-140	1	10/16/19 16:48	10/17/19 19:41	3386-33-2	
LRH (C5 - C8) Water Analytical Method: KS LRH: EPA 5030B/8015C								
LRH (C5-C8)	ND	mg/L	0.050	1		10/16/19 23:18		
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		10/16/19 23:18	460-00-4	
Preservation pH	5.0			1		10/16/19 23:18		pH
6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	0.015	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:23	7440-38-2	
Barium, Dissolved	0.22	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:23	7440-39-3	
Cadmium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:23	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:23	7440-47-3	
Lead, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:23	7439-92-1	
Selenium, Dissolved	ND	mg/L	0.015	1	10/16/19 10:15	10/17/19 12:23	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0070	1	10/16/19 10:15	10/17/19 12:23	7440-22-4	
7470 Mercury, Dissolved (LF) Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	mg/L	0.00020	1	10/16/19 13:24	10/17/19 10:02	7439-97-6	
8260 MSV Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1		10/16/19 08:45	67-64-1	
Benzene	ND	ug/L	1.0	1		10/16/19 08:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/16/19 08:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/16/19 08:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/16/19 08:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/16/19 08:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/16/19 08:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/16/19 08:45	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		10/16/19 08:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/16/19 08:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/16/19 08:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/16/19 08:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/16/19 08:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/16/19 08:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/16/19 08:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		10/16/19 08:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/16/19 08:45	124-48-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-1 **Lab ID: 60318015009** Collected: 10/10/19 10:45 Received: 10/11/19 15:41 Matrix: Water

Comments: • Vials provided for 8260 Volatiles and KS LRH are unpreserved; sample effervescence.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/16/19 08:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/16/19 08:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/16/19 08:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/16/19 08:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/16/19 08:45	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		10/16/19 08:45	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/16/19 08:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/16/19 08:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/16/19 08:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/16/19 08:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/16/19 08:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/16/19 08:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/16/19 08:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/16/19 08:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/16/19 08:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/16/19 08:45	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		10/16/19 08:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/16/19 08:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/16/19 08:45	99-87-6	L1
Methylene Chloride	ND	ug/L	1.0	1		10/16/19 08:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/16/19 08:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/16/19 08:45	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		10/16/19 08:45	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	103-65-1	
Styrene	ND	ug/L	1.0	1		10/16/19 08:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/16/19 08:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/16/19 08:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/16/19 08:45	127-18-4	
Toluene	ND	ug/L	1.0	1		10/16/19 08:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/16/19 08:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/16/19 08:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/16/19 08:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/16/19 08:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/16/19 08:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		10/16/19 08:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/16/19 08:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/16/19 08:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/16/19 08:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		10/16/19 08:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-1 **Lab ID: 60318015009** Collected: 10/10/19 10:45 Received: 10/11/19 15:41 Matrix: Water

Comments: • Vials provided for 8260 Volatiles and KS LRH are unpreserved; sample effervescence.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	77-122	1		10/16/19 08:45	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		10/16/19 08:45	2037-26-5	
Preservation pH	7.0		0.10	1		10/16/19 08:45		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-2	Lab ID: 60318015010	Collected: 10/10/19 10:45	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH Analytical Method: KS MRH/HRH Preparation Method: EPA 3510C								
HRH (C19-C35)	0.77	mg/L	0.22	1	10/16/19 16:48	10/17/19 19:49		
MRH (C9-C18)	0.13	mg/L	0.065	1	10/16/19 16:48	10/17/19 19:49		
Surrogates								
1-Chloro-octadecane (S)	105	%	40-140	1	10/16/19 16:48	10/17/19 19:49	3386-33-2	
LRH (C5 - C8) Water Analytical Method: KS LRH: EPA 5030B/8015C								
LRH (C5-C8)	ND	mg/L	0.050	1		10/16/19 23:33		
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		10/16/19 23:33	460-00-4	
Preservation pH	1.0			1		10/16/19 23:33		
6010 MET ICP, Dissolved (LF) Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	0.015	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:31	7440-38-2	
Barium, Dissolved	0.19	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:31	7440-39-3	
Cadmium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:31	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:31	7440-47-3	
Lead, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:31	7439-92-1	
Selenium, Dissolved	ND	mg/L	0.015	1	10/16/19 10:15	10/17/19 12:31	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0070	1	10/16/19 10:15	10/17/19 12:31	7440-22-4	
7470 Mercury, Dissolved (LF) Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	mg/L	0.00020	1	10/16/19 13:24	10/17/19 10:04	7439-97-6	
8260 MSV Analytical Method: EPA 5030B/8260								
Acetone	ND	mg/L	0.010	1		10/15/19 09:16	67-64-1	
Benzene	ND	mg/L	0.0010	1		10/15/19 09:16	71-43-2	
Bromobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:16	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		10/15/19 09:16	75-27-4	
Bromoform	ND	mg/L	0.0010	1		10/15/19 09:16	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		10/15/19 09:16	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		10/15/19 09:16	78-93-3	
n-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	98-06-6	
Carbon disulfide	ND	mg/L	0.0050	1		10/15/19 09:16	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		10/15/19 09:16	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	75-00-3	
Chloroform	ND	mg/L	0.0010	1		10/15/19 09:16	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		10/15/19 09:16	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:16	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0025	1		10/15/19 09:16	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	1		10/15/19 09:16	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-2	Lab ID: 60318015010	Collected: 10/10/19 10:45	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Dibromomethane	ND	mg/L	0.0010	1		10/15/19 09:16	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	1		10/15/19 09:16	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	1		10/15/19 09:16	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:16	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:16	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:16	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:16	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:16	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:16	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:16	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:16	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:16	10061-02-6	
Ethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	1		10/15/19 09:16	87-68-3	
2-Hexanone	ND	mg/L	0.010	1		10/15/19 09:16	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	1		10/15/19 09:16	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	1		10/15/19 09:16	99-87-6	
Methylene Chloride	ND	mg/L	0.0010	1		10/15/19 09:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		10/15/19 09:16	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		10/15/19 09:16	1634-04-4	
Naphthalene	ND	mg/L	0.010	1		10/15/19 09:16	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	103-65-1	
Styrene	ND	mg/L	0.0010	1		10/15/19 09:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		10/15/19 09:16	127-18-4	
Toluene	ND	mg/L	0.0010	1		10/15/19 09:16	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:16	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:16	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		10/15/19 09:16	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		10/15/19 09:16	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0025	1		10/15/19 09:16	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:16	108-67-8	
Vinyl chloride	ND	mg/L	0.0010	1		10/15/19 09:16	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		10/15/19 09:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		10/15/19 09:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-122	1		10/15/19 09:16	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		10/15/19 09:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-2		Lab ID: 60318015010	Collected: 10/10/19 10:45	Received: 10/11/19 15:41	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Preservation pH	1.0		0.10	1		10/15/19 09:16		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-3	Lab ID: 60318015011	Collected: 10/10/19 14:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH								
Analytical Method: KS MRH/HRH Preparation Method: EPA 3510C								
HRH (C19-C35)	0.80	mg/L	0.22	1	10/16/19 16:48	10/17/19 19:57		
MRH (C9-C18)	0.14	mg/L	0.065	1	10/16/19 16:48	10/17/19 19:57		
Surrogates								
1-Chloro-octadecane (S)	46	%	40-140	1	10/16/19 16:48	10/17/19 19:57	3386-33-2	
8082 GCS PCB, RV								
Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/L	0.00097	1	10/15/19 14:48	10/17/19 04:30	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	99	%	38-124	1	10/15/19 14:48	10/17/19 04:30	2051-24-3	
LRH (C5 - C8) Water								
Analytical Method: KS LRH: EPA 5030B/8015C								
LRH (C5-C8)	ND	mg/L	0.050	1		10/18/19 17:07		
Surrogates								
4-Bromofluorobenzene (S)	112	%	70-130	1		10/18/19 17:07	460-00-4	
Preservation pH	1.0			1		10/18/19 17:07		
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:34	7440-38-2	
Barium, Dissolved	0.13	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:34	7440-39-3	
Cadmium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:34	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:34	7440-47-3	
Lead, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:34	7439-92-1	
Selenium, Dissolved	ND	mg/L	0.015	1	10/16/19 10:15	10/17/19 12:34	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0070	1	10/16/19 10:15	10/17/19 12:34	7440-22-4	
7470 Mercury, Dissolved (LF)								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	mg/L	0.00020	1	10/16/19 13:24	10/17/19 10:11	7439-97-6	
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	83-32-9	
Acenaphthylene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	208-96-8	
Anthracene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	120-12-7	
Benzo(a)anthracene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	56-55-3	
Benzo(a)pyrene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	207-08-9	
Benzoic Acid	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	65-85-0	
Benzyl alcohol	ND	ug/L	22.7	1	10/15/19 14:49	10/16/19 10:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	101-55-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-3	Lab ID: 60318015011	Collected: 10/10/19 14:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	85-68-7	
Carbazole	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	22.7	1	10/15/19 14:49	10/16/19 10:04	59-50-7	
4-Chloroaniline	ND	ug/L	22.7	1	10/15/19 14:49	10/16/19 10:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	108-60-1	
2-Chloronaphthalene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	91-58-7	
2-Chlorophenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	7005-72-3	
Chrysene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	53-70-3	
Dibenzofuran	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	22.7	1	10/15/19 14:49	10/16/19 10:04	91-94-1	
2,4-Dichlorophenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	120-83-2	
Diethylphthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	105-67-9	
Dimethylphthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	534-52-1	
2,4-Dinitrophenol	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	606-20-2	
Di-n-octylphthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	117-81-7	
Fluoranthene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	206-44-0	
Fluorene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	87-68-3	
Hexachlorobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	77-47-4	
Hexachloroethane	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	193-39-5	
Isophorone	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	78-59-1	
2-Methylnaphthalene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	15831-10-4	
Naphthalene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	91-20-3	
2-Nitroaniline	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	88-74-4	
3-Nitroaniline	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	99-09-2	
4-Nitroaniline	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	100-01-6	
Nitrobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	98-95-3	
2-Nitrophenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	88-75-5	
4-Nitrophenol	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	621-64-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-3	Lab ID: 60318015011	Collected: 10/10/19 14:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
N-Nitrosodiphenylamine	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	86-30-6	
Pentachlorophenol	ND	ug/L	56.8	1	10/15/19 14:49	10/16/19 10:04	87-86-5	
Phenanthrene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	85-01-8	
Phenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	108-95-2	
Pyrene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	129-00-0	
Pyridine	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	28.4	1	10/15/19 14:49	10/16/19 10:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	11.4	1	10/15/19 14:49	10/16/19 10:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	40	%	27-106	1	10/15/19 14:49	10/16/19 10:04	4165-60-0	
2-Fluorobiphenyl (S)	40	%	29-108	1	10/15/19 14:49	10/16/19 10:04	321-60-8	
Terphenyl-d14 (S)	45	%	34-129	1	10/15/19 14:49	10/16/19 10:04	1718-51-0	
Phenol-d6 (S)	31	%	10-44	1	10/15/19 14:49	10/16/19 10:04	13127-88-3	
2-Fluorophenol (S)	33	%	11-64	1	10/15/19 14:49	10/16/19 10:04	367-12-4	
2,4,6-Tribromophenol (S)	39	%	16-114	1	10/15/19 14:49	10/16/19 10:04	118-79-6	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Acetone	ND	mg/L	0.010	1		10/15/19 09:30	67-64-1	
Benzene	ND	mg/L	0.0010	1		10/15/19 09:30	71-43-2	
Bromobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:30	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		10/15/19 09:30	75-27-4	
Bromoform	ND	mg/L	0.0010	1		10/15/19 09:30	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		10/15/19 09:30	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		10/15/19 09:30	78-93-3	
n-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	98-06-6	
Carbon disulfide	ND	mg/L	0.0050	1		10/15/19 09:30	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		10/15/19 09:30	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	75-00-3	
Chloroform	ND	mg/L	0.0010	1		10/15/19 09:30	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		10/15/19 09:30	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:30	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0025	1		10/15/19 09:30	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	1		10/15/19 09:30	106-93-4	
Dibromomethane	ND	mg/L	0.0010	1		10/15/19 09:30	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	1		10/15/19 09:30	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-3	Lab ID: 60318015011	Collected: 10/10/19 14:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	1		10/15/19 09:30	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:30	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:30	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:30	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:30	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:30	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:30	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:30	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:30	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:30	10061-02-6	
Ethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	1		10/15/19 09:30	87-68-3	
2-Hexanone	ND	mg/L	0.010	1		10/15/19 09:30	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	1		10/15/19 09:30	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	1		10/15/19 09:30	99-87-6	
Methylene Chloride	ND	mg/L	0.0010	1		10/15/19 09:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		10/15/19 09:30	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		10/15/19 09:30	1634-04-4	
Naphthalene	ND	mg/L	0.010	1		10/15/19 09:30	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	103-65-1	
Styrene	ND	mg/L	0.0010	1		10/15/19 09:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		10/15/19 09:30	127-18-4	
Toluene	ND	mg/L	0.0010	1		10/15/19 09:30	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:30	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:30	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		10/15/19 09:30	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		10/15/19 09:30	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0025	1		10/15/19 09:30	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:30	108-67-8	
Vinyl chloride	ND	mg/L	0.0010	1		10/15/19 09:30	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		10/15/19 09:30	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		10/15/19 09:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-122	1		10/15/19 09:30	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		10/15/19 09:30	2037-26-5	
Preservation pH	3.0		0.10	1		10/15/19 09:30		pH

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-5	Lab ID: 60318015012	Collected: 10/10/19 15:00	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH								
Analytical Method: KS MRH/HRH Preparation Method: EPA 3510C								
HRH (C19-C35)	3.1	mg/L	0.23	1	10/16/19 16:48	10/17/19 20:05		
MRH (C9-C18)	0.33	mg/L	0.068	1	10/16/19 16:48	10/17/19 20:05		
Surrogates								
1-Chloro-octadecane (S)	84	%	40-140	1	10/16/19 16:48	10/17/19 20:05	3386-33-2	
8082 GCS PCB, RV								
Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/L	0.0010	1	10/15/19 14:48	10/17/19 04:47	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	98	%	38-124	1	10/15/19 14:48	10/17/19 04:47	2051-24-3	
LRH (C5 - C8) Water								
Analytical Method: KS LRH: EPA 5030B/8015C								
LRH (C5-C8)	ND	mg/L	0.050	1		10/18/19 17:22		
Surrogates								
4-Bromofluorobenzene (S)	112	%	70-130	1		10/18/19 17:22	460-00-4	
Preservation pH	1.0			1		10/18/19 17:22		
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:36	7440-38-2	
Barium, Dissolved	0.40	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:36	7440-39-3	
Cadmium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:36	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:36	7440-47-3	
Lead, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:36	7439-92-1	
Selenium, Dissolved	ND	mg/L	0.015	1	10/16/19 10:15	10/17/19 12:36	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0070	1	10/16/19 10:15	10/17/19 12:36	7440-22-4	
7470 Mercury, Dissolved (LF)								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	mg/L	0.00020	1	10/16/19 13:24	10/17/19 10:18	7439-97-6	
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	83-32-9	
Acenaphthylene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	208-96-8	
Anthracene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	207-08-9	
Benzoic Acid	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	65-85-0	
Benzyl alcohol	ND	ug/L	20.8	1	10/15/19 14:49	10/16/19 13:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	101-55-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-5	Lab ID: 60318015012	Collected: 10/10/19 15:00	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	85-68-7	
Carbazole	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.8	1	10/15/19 14:49	10/16/19 13:48	59-50-7	
4-Chloroaniline	ND	ug/L	20.8	1	10/15/19 14:49	10/16/19 13:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	91-58-7	
2-Chlorophenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	7005-72-3	
Chrysene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	53-70-3	
Dibenzofuran	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.8	1	10/15/19 14:49	10/16/19 13:48	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	120-83-2	
Diethylphthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	105-67-9	
Dimethylphthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	117-81-7	
Fluoranthene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	206-44-0	
Fluorene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	87-68-3	
Hexachlorobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	77-47-4	
Hexachloroethane	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	193-39-5	
Isophorone	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	15831-10-4	
Naphthalene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	91-20-3	
2-Nitroaniline	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	88-74-4	
3-Nitroaniline	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	99-09-2	
4-Nitroaniline	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	100-01-6	
Nitrobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	98-95-3	
2-Nitrophenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	88-75-5	
4-Nitrophenol	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	621-64-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-5	Lab ID: 60318015012	Collected: 10/10/19 15:00	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
N-Nitrosodiphenylamine	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	86-30-6	
Pentachlorophenol	ND	ug/L	52.1	1	10/15/19 14:49	10/16/19 13:48	87-86-5	
Phenanthrene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	85-01-8	
Phenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	108-95-2	
Pyrene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	129-00-0	
Pyridine	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	26.0	1	10/15/19 14:49	10/16/19 13:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.4	1	10/15/19 14:49	10/16/19 13:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	88	%	27-106	1	10/15/19 14:49	10/16/19 13:48	4165-60-0	
2-Fluorobiphenyl (S)	81	%	29-108	1	10/15/19 14:49	10/16/19 13:48	321-60-8	
Terphenyl-d14 (S)	91	%	34-129	1	10/15/19 14:49	10/16/19 13:48	1718-51-0	
Phenol-d6 (S)	56	%	10-44	1	10/15/19 14:49	10/16/19 13:48	13127-88-3	S3
2-Fluorophenol (S)	68	%	11-64	1	10/15/19 14:49	10/16/19 13:48	367-12-4	S3
2,4,6-Tribromophenol (S)	96	%	16-114	1	10/15/19 14:49	10/16/19 13:48	118-79-6	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND	mg/L	0.010	1		10/15/19 09:45	67-64-1	
Benzene	ND	mg/L	0.0010	1		10/15/19 09:45	71-43-2	
Bromobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:45	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		10/15/19 09:45	75-27-4	
Bromoform	ND	mg/L	0.0010	1		10/15/19 09:45	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		10/15/19 09:45	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		10/15/19 09:45	78-93-3	
n-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	98-06-6	
Carbon disulfide	ND	mg/L	0.0050	1		10/15/19 09:45	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		10/15/19 09:45	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	75-00-3	
Chloroform	ND	mg/L	0.0010	1		10/15/19 09:45	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		10/15/19 09:45	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:45	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0025	1		10/15/19 09:45	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	1		10/15/19 09:45	106-93-4	
Dibromomethane	ND	mg/L	0.0010	1		10/15/19 09:45	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	1		10/15/19 09:45	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-5	Lab ID: 60318015012	Collected: 10/10/19 15:00	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	1		10/15/19 09:45	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:45	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:45	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:45	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:45	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:45	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:45	10061-02-6	
Ethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	1		10/15/19 09:45	87-68-3	
2-Hexanone	ND	mg/L	0.010	1		10/15/19 09:45	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	1		10/15/19 09:45	98-82-8	
p-Isopropyltoluene	0.0016	mg/L	0.0010	1		10/15/19 09:45	99-87-6	
Methylene Chloride	ND	mg/L	0.0010	1		10/15/19 09:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		10/15/19 09:45	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		10/15/19 09:45	1634-04-4	
Naphthalene	ND	mg/L	0.010	1		10/15/19 09:45	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	103-65-1	
Styrene	ND	mg/L	0.0010	1		10/15/19 09:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		10/15/19 09:45	127-18-4	
Toluene	ND	mg/L	0.0010	1		10/15/19 09:45	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:45	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:45	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		10/15/19 09:45	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		10/15/19 09:45	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0025	1		10/15/19 09:45	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:45	108-67-8	
Vinyl chloride	ND	mg/L	0.0010	1		10/15/19 09:45	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		10/15/19 09:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		10/15/19 09:45	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-122	1		10/15/19 09:45	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		10/15/19 09:45	2037-26-5	
Preservation pH	1.0		0.10	1		10/15/19 09:45		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-7	Lab ID: 60318015013	Collected: 10/10/19 15:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
KS MRH/HRH								
Analytical Method: KS MRH/HRH Preparation Method: EPA 3510C								
HRH (C19-C35)	0.78	mg/L	0.22	1	10/16/19 16:48	10/17/19 20:14		
MRH (C9-C18)	0.16	mg/L	0.065	1	10/16/19 16:48	10/17/19 20:14		
Surrogates								
1-Chloro-octadecane (S)	79	%	40-140	1	10/16/19 16:48	10/17/19 20:14	3386-33-2	
8082 GCS PCB, RV								
Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/L	0.00094	1	10/15/19 14:48	10/17/19 05:05	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	101	%	38-124	1	10/15/19 14:48	10/17/19 05:05	2051-24-3	
LRH (C5 - C8) Water								
Analytical Method: KS LRH: EPA 5030B/8015C								
LRH (C5-C8)	ND	mg/L	0.050	1		10/18/19 17:37		
Surrogates								
4-Bromofluorobenzene (S)	114	%	70-130	1		10/18/19 17:37	460-00-4	
Preservation pH	1.0			1		10/18/19 17:37		
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:39	7440-38-2	
Barium, Dissolved	0.035	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:39	7440-39-3	
Cadmium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:39	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	1	10/16/19 10:15	10/17/19 12:39	7440-47-3	
Lead, Dissolved	ND	mg/L	0.010	1	10/16/19 10:15	10/17/19 12:39	7439-92-1	
Selenium, Dissolved	ND	mg/L	0.015	1	10/16/19 10:15	10/17/19 12:39	7782-49-2	
Silver, Dissolved	ND	mg/L	0.0070	1	10/16/19 10:15	10/17/19 12:39	7440-22-4	
7470 Mercury, Dissolved (LF)								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	mg/L	0.00020	1	10/16/19 13:24	10/17/19 10:20	7439-97-6	
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	10/15/19 14:49	10/16/19 14:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	101-55-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-7	Lab ID: 60318015013	Collected: 10/10/19 15:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	85-68-7	
Carbazole	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	10/15/19 14:49	10/16/19 14:11	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	10/15/19 14:49	10/16/19 14:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	7005-72-3	
Chrysene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/15/19 14:49	10/16/19 14:11	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	121-14-2	
2,6-Dinitrotoluene	18.2	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	193-39-5	
Isophorone	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	621-64-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-7	Lab ID: 60318015013	Collected: 10/10/19 15:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic								
Analytical Method: EPA 8270 Preparation Method: EPA 3510								
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1	10/15/19 14:49	10/16/19 14:11	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	85-01-8	
Phenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	108-95-2	
Pyrene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	129-00-0	
Pyridine	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	25.0	1	10/15/19 14:49	10/16/19 14:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/15/19 14:49	10/16/19 14:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%	27-106	1	10/15/19 14:49	10/16/19 14:11	4165-60-0	
2-Fluorobiphenyl (S)	74	%	29-108	1	10/15/19 14:49	10/16/19 14:11	321-60-8	
Terphenyl-d14 (S)	86	%	34-129	1	10/15/19 14:49	10/16/19 14:11	1718-51-0	
Phenol-d6 (S)	44	%	10-44	1	10/15/19 14:49	10/16/19 14:11	13127-88-3	
2-Fluorophenol (S)	56	%	11-64	1	10/15/19 14:49	10/16/19 14:11	367-12-4	
2,4,6-Tribromophenol (S)	87	%	16-114	1	10/15/19 14:49	10/16/19 14:11	118-79-6	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Acetone	ND	mg/L	0.010	1		10/15/19 09:59	67-64-1	
Benzene	ND	mg/L	0.0010	1		10/15/19 09:59	71-43-2	
Bromobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:59	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		10/15/19 09:59	75-27-4	
Bromoform	ND	mg/L	0.0010	1		10/15/19 09:59	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		10/15/19 09:59	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		10/15/19 09:59	78-93-3	
n-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	98-06-6	
Carbon disulfide	ND	mg/L	0.0050	1		10/15/19 09:59	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		10/15/19 09:59	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	75-00-3	
Chloroform	ND	mg/L	0.0010	1		10/15/19 09:59	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		10/15/19 09:59	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:59	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 09:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0025	1		10/15/19 09:59	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	1		10/15/19 09:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	1		10/15/19 09:59	106-93-4	
Dibromomethane	ND	mg/L	0.0010	1		10/15/19 09:59	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	1		10/15/19 09:59	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	107-06-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: MW-7	Lab ID: 60318015013	Collected: 10/10/19 15:30	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	1		10/15/19 09:59	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:59	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 09:59	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:59	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:59	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 09:59	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:59	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:59	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 09:59	10061-02-6	
Ethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	1		10/15/19 09:59	87-68-3	
2-Hexanone	ND	mg/L	0.010	1		10/15/19 09:59	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	1		10/15/19 09:59	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	1		10/15/19 09:59	99-87-6	
Methylene Chloride	ND	mg/L	0.0010	1		10/15/19 09:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		10/15/19 09:59	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		10/15/19 09:59	1634-04-4	
Naphthalene	ND	mg/L	0.010	1		10/15/19 09:59	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	103-65-1	
Styrene	ND	mg/L	0.0010	1		10/15/19 09:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		10/15/19 09:59	127-18-4	
Toluene	ND	mg/L	0.0010	1		10/15/19 09:59	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 09:59	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 09:59	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		10/15/19 09:59	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		10/15/19 09:59	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0025	1		10/15/19 09:59	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 09:59	108-67-8	
Vinyl chloride	ND	mg/L	0.0010	1		10/15/19 09:59	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		10/15/19 09:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		10/15/19 09:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	77-122	1		10/15/19 09:59	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		10/15/19 09:59	2037-26-5	
Preservation pH	1.0		0.10	1		10/15/19 09:59		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: TRIP BLANK	Lab ID: 60318015014	Collected: 10/10/19 08:00	Received: 10/11/19 15:41	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND	mg/L	0.010	1		10/15/19 08:33	67-64-1	
Benzene	ND	mg/L	0.0010	1		10/15/19 08:33	71-43-2	
Bromobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	108-86-1	
Bromochloromethane	ND	mg/L	0.0010	1		10/15/19 08:33	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		10/15/19 08:33	75-27-4	
Bromoform	ND	mg/L	0.0010	1		10/15/19 08:33	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		10/15/19 08:33	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		10/15/19 08:33	78-93-3	
n-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	104-51-8	
sec-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	135-98-8	
tert-Butylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	98-06-6	
Carbon disulfide	ND	mg/L	0.0050	1		10/15/19 08:33	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		10/15/19 08:33	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	75-00-3	
Chloroform	ND	mg/L	0.0010	1		10/15/19 08:33	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		10/15/19 08:33	74-87-3	
2-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 08:33	95-49-8	
4-Chlorotoluene	ND	mg/L	0.0010	1		10/15/19 08:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0025	1		10/15/19 08:33	96-12-8	
Dibromochloromethane	ND	mg/L	0.0010	1		10/15/19 08:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0010	1		10/15/19 08:33	106-93-4	
Dibromomethane	ND	mg/L	0.0010	1		10/15/19 08:33	74-95-3	
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0010	1		10/15/19 08:33	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	107-06-2	
1,2-Dichloroethene (Total)	ND	mg/L	0.0010	1		10/15/19 08:33	540-59-0	
1,1-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 08:33	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 08:33	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		10/15/19 08:33	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 08:33	78-87-5	
1,3-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 08:33	142-28-9	
2,2-Dichloropropane	ND	mg/L	0.0010	1		10/15/19 08:33	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 08:33	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 08:33	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		10/15/19 08:33	10061-02-6	
Ethylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/L	0.0010	1		10/15/19 08:33	87-68-3	
2-Hexanone	ND	mg/L	0.010	1		10/15/19 08:33	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0010	1		10/15/19 08:33	98-82-8	
p-Isopropyltoluene	ND	mg/L	0.0010	1		10/15/19 08:33	99-87-6	
Methylene Chloride	ND	mg/L	0.0010	1		10/15/19 08:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		10/15/19 08:33	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		10/15/19 08:33	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Sample: TRIP BLANK		Lab ID: 60318015014	Collected: 10/10/19 08:00	Received: 10/11/19 15:41	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Naphthalene	ND	mg/L	0.010	1		10/15/19 08:33	91-20-3	
n-Propylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	103-65-1	
Styrene	ND	mg/L	0.0010	1		10/15/19 08:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		10/15/19 08:33	127-18-4	
Toluene	ND	mg/L	0.0010	1		10/15/19 08:33	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/L	0.0010	1		10/15/19 08:33	120-82-1	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		10/15/19 08:33	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		10/15/19 08:33	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		10/15/19 08:33	75-69-4	
1,2,3-Trichloropropane	ND	mg/L	0.0025	1		10/15/19 08:33	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/L	0.0010	1		10/15/19 08:33	108-67-8	
Vinyl chloride	ND	mg/L	0.0010	1		10/15/19 08:33	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		10/15/19 08:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		10/15/19 08:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-122	1		10/15/19 08:33	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		10/15/19 08:33	2037-26-5	
Preservation pH	1.0		0.10	1		10/15/19 08:33		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615648 Analysis Method: EPA 8015B
 QC Batch Method: EPA 5035A/5030B Analysis Description: LRH (C5 - C8) Soil
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

METHOD BLANK: 2513315 Matrix: Solid
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LRH (C5-C8)	mg/kg	ND	5.0	10/16/19 12:41	
4-Bromofluorobenzene (S)	%	98	76-123	10/16/19 12:41	
Dibromofluoromethane (S)	%	95	70-130	10/16/19 12:41	

LABORATORY CONTROL SAMPLE & LCSD: 2513316 2513317

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
LRH (C5-C8)	mg/kg	20	18.9	15.5	94	77	70-130	20	25	
4-Bromofluorobenzene (S)	%				101	101	76-123			
Dibromofluoromethane (S)	%				109	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615791 Analysis Method: KS LRH: EPA 5030B/8015C
 QC Batch Method: KS LRH: EPA 5030B/8015C Analysis Description: LRH (C5 - C8) Water
 Associated Lab Samples: 60318015009, 60318015010

METHOD BLANK: 2513748 Matrix: Water

Associated Lab Samples: 60318015009, 60318015010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LRH (C5-C8)	mg/L	ND	0.050	10/16/19 15:13	
4-Bromofluorobenzene (S)	%	102	70-130	10/16/19 15:13	

LABORATORY CONTROL SAMPLE & LCSD: 2513749

2513750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
LRH (C5-C8)	mg/L	0.4	0.36	0.38	90	96	70-130	7	25	
4-Bromofluorobenzene (S)	%				101	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 616516 Analysis Method: KS LRH: EPA 5030B/8015C
 QC Batch Method: KS LRH: EPA 5030B/8015C Analysis Description: LRH (C5 - C8) Water
 Associated Lab Samples: 60318015011, 60318015012, 60318015013

METHOD BLANK: 2516633 Matrix: Water

Associated Lab Samples: 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LRH (C5-C8)	mg/L	ND	0.050	10/18/19 16:52	
4-Bromofluorobenzene (S)	%	112	70-130	10/18/19 16:52	

LABORATORY CONTROL SAMPLE & LCSD: 2516634

2516635

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
LRH (C5-C8)	mg/L	0.4	0.38	0.36	94	90	70-130	4	25	
4-Bromofluorobenzene (S)	%				114	114	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 616155 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
 Associated Lab Samples: 60318015009, 60318015010, 60318015011, 60318015012, 60318015013

METHOD BLANK: 2515158 Matrix: Water
 Associated Lab Samples: 60318015009, 60318015010, 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	10/17/19 09:57	

LABORATORY CONTROL SAMPLE: 2515159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.005	0.0050	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2515160 2515161

Parameter	Units	60318015010		2515160		2515161		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Mercury, Dissolved	mg/L	ND	0.005	0.005	0.0048	0.0049	97	98	75-125	1	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615781 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

METHOD BLANK: 2513715 Matrix: Solid
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	10/15/19 14:56	

LABORATORY CONTROL SAMPLE: 2513716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513717 2513718

Parameter	Units	60318015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.66	0.62	0.67	0.66	99	103	75-125	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615854 Analysis Method: EPA 7471
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
 Associated Lab Samples: 60318015005

METHOD BLANK: 2514047 Matrix: Solid
 Associated Lab Samples: 60318015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	10/15/19 15:42	

LABORATORY CONTROL SAMPLE: 2514048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514049 2514050

Parameter	Units	60318015005		2514049		2514050		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Mercury	mg/kg	0.064	0.51	0.5	0.58	0.53	99	94	75-125	8	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615870 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015005, 60318015006, 60318015007, 60318015008

METHOD BLANK: 2514108 Matrix: Solid
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015005, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	10/16/19 14:20	
Barium	mg/kg	ND	0.50	10/16/19 14:20	
Cadmium	mg/kg	ND	0.50	10/16/19 14:20	
Chromium	mg/kg	ND	0.50	10/16/19 14:20	
Lead	mg/kg	ND	1.0	10/16/19 14:20	
Selenium	mg/kg	ND	1.5	10/16/19 14:20	
Silver	mg/kg	ND	0.70	10/16/19 14:20	

LABORATORY CONTROL SAMPLE: 2514109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	91.1	91	80-120	
Barium	mg/kg	100	100	100	80-120	
Cadmium	mg/kg	100	94.4	94	80-120	
Chromium	mg/kg	100	98.6	99	80-120	
Lead	mg/kg	100	104	104	80-120	
Selenium	mg/kg	100	91.4	91	80-120	
Silver	mg/kg	50	47.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514110 2514111

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60317916005 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	mg/kg	5.9	89	82.6	83.1	77.8	87	87	75-125	7	20		
Barium	mg/kg	192	89	82.6	277	336	95	174	75-125	19	20	M1	
Cadmium	mg/kg	ND	89	82.6	81.0	73.5	91	89	75-125	10	20		
Chromium	mg/kg	10.6	89	82.6	98.2	92.0	98	99	75-125	6	20		
Lead	mg/kg	11.6	89	82.6	94.6	87.2	93	92	75-125	8	20		
Selenium	mg/kg	ND	89	82.6	77.5	70.5	87	85	75-125	10	20		
Silver	mg/kg	ND	44.5	41.2	41.8	37.9	94	92	75-125	10	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 616084 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
 Associated Lab Samples: 60318015009, 60318015010, 60318015011, 60318015012, 60318015013

METHOD BLANK: 2514871 Matrix: Water
 Associated Lab Samples: 60318015009, 60318015010, 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	ND	0.010	10/17/19 12:18	
Barium, Dissolved	mg/L	ND	0.0050	10/17/19 12:18	
Cadmium, Dissolved	mg/L	ND	0.0050	10/17/19 12:18	
Chromium, Dissolved	mg/L	ND	0.0050	10/17/19 12:18	
Lead, Dissolved	mg/L	ND	0.010	10/17/19 12:18	
Selenium, Dissolved	mg/L	ND	0.015	10/17/19 12:18	
Silver, Dissolved	mg/L	ND	0.0070	10/17/19 12:18	

LABORATORY CONTROL SAMPLE: 2514872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	1	0.95	95	80-120	
Barium, Dissolved	mg/L	1	1.0	100	80-120	
Cadmium, Dissolved	mg/L	1	0.98	98	80-120	
Chromium, Dissolved	mg/L	1	0.99	99	80-120	
Lead, Dissolved	mg/L	1	1.1	107	80-120	
Selenium, Dissolved	mg/L	1	1.0	100	80-120	
Silver, Dissolved	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514873 2514874

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Arsenic, Dissolved	mg/L	0.015	1	1	0.98	0.97	96	95	75-125	1	20		
Barium, Dissolved	mg/L	0.22	1	1	1.2	1.2	99	98	75-125	1	20		
Cadmium, Dissolved	mg/L	ND	1	1	0.97	0.97	97	97	75-125	0	20		
Chromium, Dissolved	mg/L	ND	1	1	0.98	0.97	98	97	75-125	0	20		
Lead, Dissolved	mg/L	ND	1	1	1.0	1.0	103	102	75-125	0	20		
Selenium, Dissolved	mg/L	ND	1	1	0.99	0.99	98	98	75-125	0	20		
Silver, Dissolved	mg/L	ND	0.5	0.5	0.49	0.49	98	97	75-125	1	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch:	615702	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008		

METHOD BLANK: 2513511 Matrix: Solid
 Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,1-Dichloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,1-Dichloroethene	mg/kg	ND	0.0050	10/15/19 09:07	
1,1-Dichloropropene	mg/kg	ND	0.0050	10/15/19 09:07	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	10/15/19 09:07	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.010	10/15/19 09:07	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dichloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dichloroethene (Total)	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dichloropropane	mg/kg	ND	0.0050	10/15/19 09:07	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
1,3-Dichloropropane	mg/kg	ND	0.0050	10/15/19 09:07	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
2,2-Dichloropropane	mg/kg	ND	0.0050	10/15/19 09:07	
2-Butanone (MEK)	mg/kg	ND	0.010	10/15/19 09:07	
2-Chlorotoluene	mg/kg	ND	0.0050	10/15/19 09:07	
2-Hexanone	mg/kg	ND	0.020	10/15/19 09:07	
4-Chlorotoluene	mg/kg	ND	0.0050	10/15/19 09:07	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.010	10/15/19 09:07	
Acetone	mg/kg	ND	0.020	10/15/19 09:07	
Benzene	mg/kg	ND	0.0050	10/15/19 09:07	
Bromobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
Bromochloromethane	mg/kg	ND	0.0050	10/15/19 09:07	
Bromodichloromethane	mg/kg	ND	0.0050	10/15/19 09:07	
Bromoform	mg/kg	ND	0.0050	10/15/19 09:07	
Bromomethane	mg/kg	ND	0.0050	10/15/19 09:07	
Carbon disulfide	mg/kg	ND	0.0050	10/15/19 09:07	
Carbon tetrachloride	mg/kg	ND	0.0050	10/15/19 09:07	
Chlorobenzene	mg/kg	ND	0.0050	10/15/19 09:07	
Chloroethane	mg/kg	ND	0.0050	10/15/19 09:07	
Chloroform	mg/kg	ND	0.0050	10/15/19 09:07	
Chloromethane	mg/kg	ND	0.0050	10/15/19 09:07	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	10/15/19 09:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2513511

Matrix: Solid

Associated Lab Samples: 60318015001, 60318015002, 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	10/15/19 09:07	
Dibromochloromethane	mg/kg	ND	0.0050	10/15/19 09:07	
Dibromomethane	mg/kg	ND	0.0050	10/15/19 09:07	
Dichlorodifluoromethane	mg/kg	ND	0.0050	10/15/19 09:07	
Ethylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	10/15/19 09:07	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	10/15/19 09:07	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	10/15/19 09:07	
Methylene Chloride	mg/kg	ND	0.0050	10/15/19 09:07	
n-Butylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
n-Propylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
Naphthalene	mg/kg	ND	0.010	10/15/19 09:07	
p-Isopropyltoluene	mg/kg	ND	0.0050	10/15/19 09:07	
sec-Butylbenzene	mg/kg	ND	0.0050	10/15/19 09:07	
Styrene	mg/kg	ND	0.0050	10/15/19 09:07	
tert-Butylbenzene	mg/kg	ND	0.025	10/15/19 09:07	
Tetrachloroethene	mg/kg	ND	0.0050	10/15/19 09:07	
Toluene	mg/kg	ND	0.0050	10/15/19 09:07	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	10/15/19 09:07	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	10/15/19 09:07	
Trichloroethene	mg/kg	ND	0.0050	10/15/19 09:07	
Trichlorofluoromethane	mg/kg	ND	0.0050	10/15/19 09:07	
Vinyl chloride	mg/kg	ND	0.0050	10/15/19 09:07	
Xylene (Total)	mg/kg	ND	0.0050	10/15/19 09:07	
1,2-Dichloroethane-d4 (S)	%	101	80-124	10/15/19 09:07	
4-Bromofluorobenzene (S)	%	103	80-120	10/15/19 09:07	
Toluene-d8 (S)	%	100	80-120	10/15/19 09:07	

LABORATORY CONTROL SAMPLE: 2513512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	0.1	0.11	108	80-119	
1,1,1-Trichloroethane	mg/kg	0.1	0.11	109	77-121	
1,1,2,2-Tetrachloroethane	mg/kg	0.1	0.11	109	74-116	
1,1,2-Trichloroethane	mg/kg	0.1	0.10	103	76-115	
1,1-Dichloroethane	mg/kg	0.1	0.11	107	77-120	
1,1-Dichloroethene	mg/kg	0.1	0.10	102	66-129	
1,1-Dichloropropene	mg/kg	0.1	0.11	108	79-121	
1,2,3-Trichlorobenzene	mg/kg	0.1	0.11	110	80-120	
1,2,3-Trichloropropane	mg/kg	0.1	0.11	108	74-118	
1,2,4-Trichlorobenzene	mg/kg	0.1	0.11	111	75-120	
1,2,4-Trimethylbenzene	mg/kg	0.1	0.11	114	77-116	
1,2-Dibromo-3-chloropropane	mg/kg	0.1	0.12	115	74-121	
1,2-Dibromoethane (EDB)	mg/kg	0.1	0.11	107	80-117	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	mg/kg	0.1	0.11	108	48-146	
1,2-Dichloroethane	mg/kg	0.1	0.10	101	74-110	
1,2-Dichloroethene (Total)	mg/kg	0.2	0.21	105	79-120	
1,2-Dichloropropane	mg/kg	0.1	0.11	108	79-115	
1,3,5-Trimethylbenzene	mg/kg	0.1	0.11	111	76-115	
1,3-Dichlorobenzene	mg/kg	0.1	0.11	108	76-115	
1,3-Dichloropropane	mg/kg	0.1	0.11	106	75-111	
1,4-Dichlorobenzene	mg/kg	0.1	0.11	107	73-119	
2,2-Dichloropropane	mg/kg	0.1	0.11	110	76-121	
2-Butanone (MEK)	mg/kg	0.5	0.52	104	70-116	
2-Chlorotoluene	mg/kg	0.1	0.11	108	78-117	
2-Hexanone	mg/kg	0.5	0.55	110	71-117	
4-Chlorotoluene	mg/kg	0.1	0.11	109	77-115	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.5	0.57	114	73-116	
Acetone	mg/kg	0.5	0.44	88	60-125	
Benzene	mg/kg	0.1	0.11	106	73-117	
Bromobenzene	mg/kg	0.1	0.11	105	79-115	
Bromochloromethane	mg/kg	0.1	0.10	104	76-116	
Bromodichloromethane	mg/kg	0.1	0.11	106	80-120	
Bromoform	mg/kg	0.1	0.11	108	77-127	
Bromomethane	mg/kg	0.1	0.091	91	29-165	
Carbon disulfide	mg/kg	0.1	0.096	96	54-133	
Carbon tetrachloride	mg/kg	0.1	0.11	109	78-126	
Chlorobenzene	mg/kg	0.1	0.11	105	63-130	
Chloroethane	mg/kg	0.1	0.093	93	31-170	
Chloroform	mg/kg	0.1	0.11	105	80-118	
Chloromethane	mg/kg	0.1	0.074	74	10-168	
cis-1,2-Dichloroethene	mg/kg	0.1	0.11	106	80-117	
cis-1,3-Dichloropropene	mg/kg	0.1	0.11	110	80-120	
Dibromochloromethane	mg/kg	0.1	0.11	105	78-122	
Dibromomethane	mg/kg	0.1	0.11	107	78-119	
Dichlorodifluoromethane	mg/kg	0.1	0.046	46	10-206	
Ethylbenzene	mg/kg	0.1	0.11	106	73-121	
Hexachloro-1,3-butadiene	mg/kg	0.1	0.12	117	75-129	
Isopropylbenzene (Cumene)	mg/kg	0.1	0.11	107	74-115	
Methyl-tert-butyl ether	mg/kg	0.1	0.11	112	73-129	
Methylene Chloride	mg/kg	0.1	0.094	94	70-128	
n-Butylbenzene	mg/kg	0.1	0.12	117	78-123	
n-Propylbenzene	mg/kg	0.1	0.11	113	77-120	
Naphthalene	mg/kg	0.1	0.11	109	76-120	
p-Isopropyltoluene	mg/kg	0.1	0.12	122	78-117 L1	
sec-Butylbenzene	mg/kg	0.1	0.11	109	83-126	
Styrene	mg/kg	0.1	0.11	107	80-117	
tert-Butylbenzene	mg/kg	0.1	0.11	111	79-117	
Tetrachloroethene	mg/kg	0.1	0.11	106	72-122	
Toluene	mg/kg	0.1	0.099	99	77-119	
trans-1,2-Dichloroethene	mg/kg	0.1	0.10	105	75-123	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	mg/kg	0.1	0.11	105	79-124	
Trichloroethene	mg/kg	0.1	0.12	115	82-128	
Trichlorofluoromethane	mg/kg	0.1	0.094	94	56-129	
Vinyl chloride	mg/kg	0.1	0.077	77	36-176	
Xylene (Total)	mg/kg	0.3	0.32	106	76-119	
1,2-Dichloroethane-d4 (S)	%			101	80-124	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513513 2513514

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60318038002 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.052	0.041	40	32	12-128	23	59
1,1,1-Trichloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.086	0.080	66	63	15-131	7	75
1,1,2,2-Tetrachloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	ND	0.065	0	51	10-132		65 M1
1,1,2-Trichloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.064	0.061	49	47	14-132	5	54
1,1-Dichloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.084	0.083	65	65	23-126	0	64
1,1-Dichloroethene	mg/kg	<6.4 ug/kg	0.13	0.13	0.086	0.087	66	68	20-129	1	80
1,1-Dichloropropene	mg/kg	<6.4 ug/kg	0.13	0.13	0.082	0.076	63	59	15-127	8	78
1,2,3-Trichlorobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.019	0.015	15	12	10-124	24	67
1,2,3-Trichloropropane	mg/kg	<6.4 ug/kg	0.13	0.13	0.068	0.058	52	46	19-125	15	51
1,2,4-Trichlorobenzene	mg/kg	13.3 ug/kg	0.13	0.13	0.027	0.023	11	8	10-129	15	73 M1
1,2,4-Trimethylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.038	0.025	29	19	10-124	43	68
1,2-Dibromo-3-chloropropane	mg/kg	<12.8 ug/kg	0.13	0.13	0.055	0.047	43	37	10-135	15	56
1,2-Dibromoethane (EDB)	mg/kg	<6.4 ug/kg	0.13	0.13	0.059	0.056	46	44	23-123	6	50
1,2-Dichlorobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.029	0.022	22	18	10-126	26	60
1,2-Dichloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.068	0.068	52	53	27-116	1	45
1,2-Dichloroethene (Total)	mg/kg	<6.4 ug/kg	0.26	0.26	0.16	0.16	62	63	20-127	0	64
1,2-Dichloropropane	mg/kg	<6.4 ug/kg	0.13	0.13	0.072	0.067	55	52	21-125	7	57
1,3,5-Trimethylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.040	0.026	31	20	10-125	44	65
1,3-Dichlorobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.032	0.023	24	18	10-126	31	63
1,3-Dichloropropane	mg/kg	<6.4 ug/kg	0.13	0.13	0.064	0.059	49	46	24-114	8	51
1,4-Dichlorobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.031	0.023	24	18	10-126	29	62
2,2-Dichloropropane	mg/kg	<6.4 ug/kg	0.13	0.13	0.088	0.085	68	66	17-124	3	70
2-Butanone (MEK)	mg/kg	<12.8 ug/kg	0.65	0.64	0.35	0.35	54	55	29-120	0	50
2-Chlorotoluene	mg/kg	<6.4 ug/kg	0.13	0.13	0.041	0.030	32	24	10-138	32	70
2-Hexanone	mg/kg	<25.7 ug/kg	0.65	0.64	0.22	0.24	34	38	25-121	9	51
4-Chlorotoluene	mg/kg	<6.4 ug/kg	0.13	0.13	0.040	0.029	31	23	10-112	30	62
4-Methyl-2-pentanone (MIBK)	mg/kg	<12.8 ug/kg	0.65	0.64	0.35	0.36	55	56	23-131	2	50
Acetone	mg/kg	<25.7 ug/kg	0.65	0.64	0.33	0.33	50	50	15-129	0	49
Benzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.076	0.071	58	56	17-134	5	53

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Parameter	Units	2513513		2513514		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60318038002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Bromobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.041	0.032	32	25	10-129	24	63
Bromochloromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.071	0.071	55	55	28-118	1	53
Bromodichloromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.065	0.061	50	48	21-126	6	59
Bromoform	mg/kg	<6.4 ug/kg	0.13	0.13	0.045	0.040	34	32	14-127	10	60
Bromomethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.053	0.066	41	51	10-121	21	67
Carbon disulfide	mg/kg	<6.4 ug/kg	0.13	0.13	0.074	0.077	57	60	10-122	4	78
Carbon tetrachloride	mg/kg	<6.4 ug/kg	0.13	0.13	0.081	0.074	62	58	10-134	9	82
Chlorobenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.050	0.040	38	31	10-126	22	60
Chloroethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.073	0.076	56	60	10-133	5	79
Chloroform	mg/kg	<6.4 ug/kg	0.13	0.13	0.076	0.074	59	58	24-126	2	60
Chloromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.057	0.066	44	51	10-125	15	78
cis-1,2-Dichloroethene	mg/kg	<6.4 ug/kg	0.13	0.13	0.077	0.076	59	60	18-131	0	62
cis-1,3-Dichloropropene	mg/kg	<6.4 ug/kg	0.13	0.13	0.045	0.051	35	40	24-117	12	60
Dibromochloromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.055	0.050	42	39	22-117	10	59
Dibromomethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.069	0.068	53	53	29-118	2	52
Dichlorodifluoromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.043	0.044	33	34	10-161	1	84
Ethylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.052	0.039	40	30	10-137	29	60
Hexachloro-1,3-butadiene	mg/kg	<6.4 ug/kg	0.13	0.13	0.018	0.011	14	9	10-124	47	76 M1
Isopropylbenzene (Cumene)	mg/kg	<6.4 ug/kg	0.13	0.13	0.045	0.030	35	23	10-123	42	72
Methyl-tert-butyl ether	mg/kg	<6.4 ug/kg	0.13	0.13	0.076	0.076	58	59	31-126	0	42
Methylene Chloride	mg/kg	<6.4 ug/kg	0.13	0.13	0.071	0.074	50	54	23-117	4	59
n-Butylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.031	0.019	24	15	10-130	46	78
n-Propylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.046	0.032	35	25	10-121	37	70
Naphthalene	mg/kg	<12.8 ug/kg	0.13	0.13	0.024	0.019	19	15	10-131	23	63
p-Isopropyltoluene	mg/kg	<6.4 ug/kg	0.13	0.13	0.036	0.022	28	18	10-127	47	76
sec-Butylbenzene	mg/kg	<6.4 ug/kg	0.13	0.13	0.038	0.023	29	18	10-137	48	81
Styrene	mg/kg	<6.4 ug/kg	0.13	0.13	0.041	0.031	32	25	10-119	27	56
tert-Butylbenzene	mg/kg	<32.1 ug/kg	0.13	0.13	0.042	.026J	32	20	10-121		80
Tetrachloroethene	mg/kg	<6.4 ug/kg	0.13	0.13	0.059	0.046	45	36	10-131	24	78
Toluene	mg/kg	<6.4 ug/kg	0.13	0.13	0.060	0.050	46	39	13-131	19	60
trans-1,2-Dichloroethene	mg/kg	<6.4 ug/kg	0.13	0.13	0.085	0.084	65	66	22-125	1	70
trans-1,3-Dichloropropene	mg/kg	<6.4 ug/kg	0.13	0.13	0.050	0.053	39	42	20-122	6	54
Trichloroethene	mg/kg	<6.4 ug/kg	0.13	0.13	0.075	0.068	58	53	14-144	10	69
Trichlorofluoromethane	mg/kg	<6.4 ug/kg	0.13	0.13	0.079	0.081	61	63	10-134	2	86
Vinyl chloride	mg/kg	<6.4 ug/kg	0.13	0.13	0.070	0.072	54	57	10-141	3	81
Xylene (Total)	mg/kg	<6.4 ug/kg	0.39	0.38	0.14	0.10	37	27	10-137	35	58
1,2-Dichloroethane-d4 (S)	%						105	106	80-124		
4-Bromofluorobenzene (S)	%						108	112	80-120		
Toluene-d8 (S)	%						101	101	80-120		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615697 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60318015010, 60318015011, 60318015012, 60318015013, 60318015014

METHOD BLANK: 2513509 Matrix: Water
 Associated Lab Samples: 60318015010, 60318015011, 60318015012, 60318015013, 60318015014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,1,1-Trichloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,1,2,2-Tetrachloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,1,2-Trichloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,1-Dichloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,1-Dichloroethene	mg/L	ND	0.0010	10/15/19 08:05	
1,1-Dichloropropene	mg/L	ND	0.0010	10/15/19 08:05	
1,2,3-Trichlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,2,3-Trichloropropane	mg/L	ND	0.0025	10/15/19 08:05	
1,2,4-Trichlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,2,4-Trimethylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,2-Dibromo-3-chloropropane	mg/L	ND	0.0025	10/15/19 08:05	
1,2-Dibromoethane (EDB)	mg/L	ND	0.0010	10/15/19 08:05	
1,2-Dichlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,2-Dichloroethane	mg/L	ND	0.0010	10/15/19 08:05	
1,2-Dichloroethene (Total)	mg/L	ND	0.0010	10/15/19 08:05	
1,2-Dichloropropane	mg/L	ND	0.0010	10/15/19 08:05	
1,3,5-Trimethylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,3-Dichlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
1,3-Dichloropropane	mg/L	ND	0.0010	10/15/19 08:05	
1,4-Dichlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
2,2-Dichloropropane	mg/L	ND	0.0010	10/15/19 08:05	
2-Butanone (MEK)	mg/L	ND	0.010	10/15/19 08:05	
2-Chlorotoluene	mg/L	ND	0.0010	10/15/19 08:05	
2-Hexanone	mg/L	ND	0.010	10/15/19 08:05	
4-Chlorotoluene	mg/L	ND	0.0010	10/15/19 08:05	
4-Methyl-2-pentanone (MIBK)	mg/L	ND	0.010	10/15/19 08:05	
Acetone	mg/L	ND	0.010	10/15/19 08:05	
Benzene	mg/L	ND	0.0010	10/15/19 08:05	
Bromobenzene	mg/L	ND	0.0010	10/15/19 08:05	
Bromochloromethane	mg/L	ND	0.0010	10/15/19 08:05	
Bromodichloromethane	mg/L	ND	0.0010	10/15/19 08:05	
Bromoform	mg/L	ND	0.0010	10/15/19 08:05	
Bromomethane	mg/L	ND	0.0050	10/15/19 08:05	
Carbon disulfide	mg/L	ND	0.0050	10/15/19 08:05	
Carbon tetrachloride	mg/L	ND	0.0010	10/15/19 08:05	
Chlorobenzene	mg/L	ND	0.0010	10/15/19 08:05	
Chloroethane	mg/L	ND	0.0010	10/15/19 08:05	
Chloroform	mg/L	ND	0.0010	10/15/19 08:05	
Chloromethane	mg/L	ND	0.0010	10/15/19 08:05	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	10/15/19 08:05	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2513509

Matrix: Water

Associated Lab Samples: 60318015010, 60318015011, 60318015012, 60318015013, 60318015014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/L	ND	0.0010	10/15/19 08:05	
Dibromochloromethane	mg/L	ND	0.0010	10/15/19 08:05	
Dibromomethane	mg/L	ND	0.0010	10/15/19 08:05	
Dichlorodifluoromethane	mg/L	ND	0.0010	10/15/19 08:05	
Ethylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
Hexachloro-1,3-butadiene	mg/L	ND	0.0010	10/15/19 08:05	
Isopropylbenzene (Cumene)	mg/L	ND	0.0010	10/15/19 08:05	
Methyl-tert-butyl ether	mg/L	ND	0.0010	10/15/19 08:05	
Methylene Chloride	mg/L	ND	0.0010	10/15/19 08:05	
n-Butylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
n-Propylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
Naphthalene	mg/L	ND	0.010	10/15/19 08:05	
p-Isopropyltoluene	mg/L	ND	0.0010	10/15/19 08:05	
sec-Butylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
Styrene	mg/L	ND	0.0010	10/15/19 08:05	
tert-Butylbenzene	mg/L	ND	0.0010	10/15/19 08:05	
Tetrachloroethene	mg/L	ND	0.0010	10/15/19 08:05	
Toluene	mg/L	ND	0.0010	10/15/19 08:05	
trans-1,2-Dichloroethene	mg/L	ND	0.0010	10/15/19 08:05	
trans-1,3-Dichloropropene	mg/L	ND	0.0010	10/15/19 08:05	
Trichloroethene	mg/L	ND	0.0010	10/15/19 08:05	
Trichlorofluoromethane	mg/L	ND	0.0010	10/15/19 08:05	
Vinyl chloride	mg/L	ND	0.0010	10/15/19 08:05	
Xylene (Total)	mg/L	ND	0.0030	10/15/19 08:05	
1,2-Dichloroethane-d4 (S)	%	100	77-122	10/15/19 08:05	
4-Bromofluorobenzene (S)	%	99	80-120	10/15/19 08:05	
Toluene-d8 (S)	%	101	80-120	10/15/19 08:05	

LABORATORY CONTROL SAMPLE: 2513510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/L	0.02	0.021	104	77-123	
1,1,1-Trichloroethane	mg/L	0.02	0.021	103	79-120	
1,1,2,2-Tetrachloroethane	mg/L	0.02	0.020	99	71-122	
1,1,2-Trichloroethane	mg/L	0.02	0.019	97	76-123	
1,1-Dichloroethane	mg/L	0.02	0.021	104	78-117	
1,1-Dichloroethene	mg/L	0.02	0.021	105	74-122	
1,1-Dichloropropene	mg/L	0.02	0.021	103	83-115	
1,2,3-Trichlorobenzene	mg/L	0.02	0.021	104	74-131	
1,2,3-Trichloropropane	mg/L	0.02	0.019	94	77-126	
1,2,4-Trichlorobenzene	mg/L	0.02	0.020	98	76-122	
1,2,4-Trimethylbenzene	mg/L	0.02	0.022	109	74-127	
1,2-Dibromo-3-chloropropane	mg/L	0.02	0.018	92	65-133	
1,2-Dibromoethane (EDB)	mg/L	0.02	0.021	106	80-118	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	mg/L	0.02	0.020	102	84-118	
1,2-Dichloroethane	mg/L	0.02	0.021	107	73-120	
1,2-Dichloroethene (Total)	mg/L	0.04	0.041	103	80-120	
1,2-Dichloropropane	mg/L	0.02	0.021	104	78-115	
1,3,5-Trimethylbenzene	mg/L	0.02	0.021	105	81-117	
1,3-Dichlorobenzene	mg/L	0.02	0.020	100	84-116	
1,3-Dichloropropane	mg/L	0.02	0.021	105	78-120	
1,4-Dichlorobenzene	mg/L	0.02	0.020	100	83-115	
2,2-Dichloropropane	mg/L	0.02	0.021	103	66-124	
2-Butanone (MEK)	mg/L	0.1	0.10	101	54-133	
2-Chlorotoluene	mg/L	0.02	0.021	105	80-120	
2-Hexanone	mg/L	0.1	0.095	95	60-133	
4-Chlorotoluene	mg/L	0.02	0.020	101	82-120	
4-Methyl-2-pentanone (MIBK)	mg/L	0.1	0.10	105	62-130	
Acetone	mg/L	0.1	0.095	95	54-130	
Benzene	mg/L	0.02	0.020	102	80-120	
Bromobenzene	mg/L	0.02	0.019	97	83-118	
Bromochloromethane	mg/L	0.02	0.021	105	79-118	
Bromodichloromethane	mg/L	0.02	0.020	101	78-121	
Bromoform	mg/L	0.02	0.020	99	62-137	
Bromomethane	mg/L	0.02	0.021	107	41-145	
Carbon disulfide	mg/L	0.02	0.019	97	64-119	
Carbon tetrachloride	mg/L	0.02	0.021	103	77-122	
Chlorobenzene	mg/L	0.02	0.020	101	80-123	
Chloroethane	mg/L	0.02	0.018	91	60-146	
Chloroform	mg/L	0.02	0.021	104	81-116	
Chloromethane	mg/L	0.02	0.020	98	29-154	
cis-1,2-Dichloroethene	mg/L	0.02	0.021	104	80-120	
cis-1,3-Dichloropropene	mg/L	0.02	0.021	103	78-118	
Dibromochloromethane	mg/L	0.02	0.020	100	73-128	
Dibromomethane	mg/L	0.02	0.020	101	83-115	
Dichlorodifluoromethane	mg/L	0.02	0.018	90	13-185	
Ethylbenzene	mg/L	0.02	0.020	101	80-120	
Hexachloro-1,3-butadiene	mg/L	0.02	0.021	106	75-130	
Isopropylbenzene (Cumene)	mg/L	0.02	0.021	105	81-115	
Methyl-tert-butyl ether	mg/L	0.02	0.022	110	67-125	
Methylene Chloride	mg/L	0.02	0.022	109	80-126	
n-Butylbenzene	mg/L	0.02	0.021	103	83-122	
n-Propylbenzene	mg/L	0.02	0.021	107	83-116	
Naphthalene	mg/L	0.02	0.020	102	73-125	
p-Isopropyltoluene	mg/L	0.02	0.023	114	83-116	
sec-Butylbenzene	mg/L	0.02	0.020	100	80-124	
Styrene	mg/L	0.02	0.021	106	85-120	
tert-Butylbenzene	mg/L	0.02	0.021	103	80-120	
Tetrachloroethene	mg/L	0.02	0.020	102	77-121	
Toluene	mg/L	0.02	0.020	101	80-120	
trans-1,2-Dichloroethene	mg/L	0.02	0.020	102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	mg/L	0.02	0.019	95	76-123	
Trichloroethene	mg/L	0.02	0.022	109	80-121	
Trichlorofluoromethane	mg/L	0.02	0.020	98	64-124	
Vinyl chloride	mg/L	0.02	0.019	93	46-162	
Xylene (Total)	mg/L	0.06	0.064	107	80-120	
1,2-Dichloroethane-d4 (S)	%			104	77-122	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			99	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615872

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 7 day

Associated Lab Samples: 60318015009

METHOD BLANK: 2514118

Matrix: Water

Associated Lab Samples: 60318015009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,1-Dichloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,1-Dichloroethene	ug/L	ND	1.0	10/16/19 08:02	
1,1-Dichloropropene	ug/L	ND	1.0	10/16/19 08:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/16/19 08:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/16/19 08:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/16/19 08:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/16/19 08:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
1,2-Dichloroethane	ug/L	ND	1.0	10/16/19 08:02	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/16/19 08:02	
1,2-Dichloropropane	ug/L	ND	1.0	10/16/19 08:02	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/16/19 08:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
1,3-Dichloropropane	ug/L	ND	1.0	10/16/19 08:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
2,2-Dichloropropane	ug/L	ND	1.0	10/16/19 08:02	
2-Butanone (MEK)	ug/L	ND	10.0	10/16/19 08:02	
2-Chlorotoluene	ug/L	ND	1.0	10/16/19 08:02	
2-Hexanone	ug/L	ND	10.0	10/16/19 08:02	
4-Chlorotoluene	ug/L	ND	1.0	10/16/19 08:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/16/19 08:02	
Acetone	ug/L	ND	10.0	10/16/19 08:02	
Benzene	ug/L	ND	1.0	10/16/19 08:02	
Bromobenzene	ug/L	ND	1.0	10/16/19 08:02	
Bromochloromethane	ug/L	ND	1.0	10/16/19 08:02	
Bromodichloromethane	ug/L	ND	1.0	10/16/19 08:02	
Bromoform	ug/L	ND	1.0	10/16/19 08:02	
Bromomethane	ug/L	ND	5.0	10/16/19 08:02	
Carbon disulfide	ug/L	ND	5.0	10/16/19 08:02	
Carbon tetrachloride	ug/L	ND	1.0	10/16/19 08:02	
Chlorobenzene	ug/L	ND	1.0	10/16/19 08:02	
Chloroethane	ug/L	ND	1.0	10/16/19 08:02	
Chloroform	ug/L	ND	1.0	10/16/19 08:02	
Chloromethane	ug/L	ND	1.0	10/16/19 08:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/16/19 08:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2514118

Matrix: Water

Associated Lab Samples: 60318015009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/16/19 08:02	
Dibromochloromethane	ug/L	ND	1.0	10/16/19 08:02	
Dibromomethane	ug/L	ND	1.0	10/16/19 08:02	
Dichlorodifluoromethane	ug/L	ND	1.0	10/16/19 08:02	
Ethylbenzene	ug/L	ND	1.0	10/16/19 08:02	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/16/19 08:02	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/16/19 08:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/16/19 08:02	
Methylene Chloride	ug/L	ND	1.0	10/16/19 08:02	
n-Butylbenzene	ug/L	ND	1.0	10/16/19 08:02	
n-Propylbenzene	ug/L	ND	1.0	10/16/19 08:02	
Naphthalene	ug/L	ND	10.0	10/16/19 08:02	
p-Isopropyltoluene	ug/L	ND	1.0	10/16/19 08:02	
sec-Butylbenzene	ug/L	ND	1.0	10/16/19 08:02	
Styrene	ug/L	ND	1.0	10/16/19 08:02	
tert-Butylbenzene	ug/L	ND	1.0	10/16/19 08:02	
Tetrachloroethene	ug/L	ND	1.0	10/16/19 08:02	
Toluene	ug/L	ND	1.0	10/16/19 08:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/16/19 08:02	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/16/19 08:02	
Trichloroethene	ug/L	ND	1.0	10/16/19 08:02	
Trichlorofluoromethane	ug/L	ND	1.0	10/16/19 08:02	
Vinyl chloride	ug/L	ND	1.0	10/16/19 08:02	
Xylene (Total)	ug/L	ND	3.0	10/16/19 08:02	
1,2-Dichloroethane-d4 (S)	%	102	77-122	10/16/19 08:02	
4-Bromofluorobenzene (S)	%	99	80-120	10/16/19 08:02	
Toluene-d8 (S)	%	97	80-120	10/16/19 08:02	

LABORATORY CONTROL SAMPLE: 2514119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.4	102	77-123	
1,1,1-Trichloroethane	ug/L	20	20.9	105	79-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	71-122	
1,1,2-Trichloroethane	ug/L	20	19.7	99	76-123	
1,1-Dichloroethane	ug/L	20	20.6	103	78-117	
1,1-Dichloroethene	ug/L	20	22.3	112	74-122	
1,1-Dichloropropene	ug/L	20	20.9	105	83-115	
1,2,3-Trichlorobenzene	ug/L	20	19.4	97	74-131	
1,2,3-Trichloropropane	ug/L	20	18.9	94	77-126	
1,2,4-Trichlorobenzene	ug/L	20	19.4	97	76-122	
1,2,4-Trimethylbenzene	ug/L	20	22.8	114	74-127	
1,2-Dibromo-3-chloropropane	ug/L	20	17.0	85	65-133	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	80-118	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2514119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	20.1	101	84-118	
1,2-Dichloroethane	ug/L	20	20.2	101	73-120	
1,2-Dichloroethene (Total)	ug/L	40	41.6	104	80-120	
1,2-Dichloropropane	ug/L	20	20.9	105	78-115	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	81-117	
1,3-Dichlorobenzene	ug/L	20	20.5	103	84-116	
1,3-Dichloropropane	ug/L	20	20.5	103	78-120	
1,4-Dichlorobenzene	ug/L	20	20.5	102	83-115	
2,2-Dichloropropane	ug/L	20	20.7	103	66-124	
2-Butanone (MEK)	ug/L	100	89.3	89	54-133	
2-Chlorotoluene	ug/L	20	20.8	104	80-120	
2-Hexanone	ug/L	100	87.8	88	60-133	
4-Chlorotoluene	ug/L	20	20.3	101	82-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	62-130	
Acetone	ug/L	100	81.1	81	54-130	
Benzene	ug/L	20	20.8	104	80-120	
Bromobenzene	ug/L	20	20.0	100	83-118	
Bromochloromethane	ug/L	20	21.1	106	79-118	
Bromodichloromethane	ug/L	20	19.8	99	78-121	
Bromoform	ug/L	20	18.6	93	62-137	
Bromomethane	ug/L	20	21.5	107	41-145	
Carbon disulfide	ug/L	20	21.0	105	64-119	
Carbon tetrachloride	ug/L	20	20.5	103	77-122	
Chlorobenzene	ug/L	20	20.8	104	80-123	
Chloroethane	ug/L	20	19.1	96	60-146	
Chloroform	ug/L	20	20.8	104	81-116	
Chloromethane	ug/L	20	19.8	99	29-154	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.5	103	78-118	
Dibromochloromethane	ug/L	20	20.0	100	73-128	
Dibromomethane	ug/L	20	19.5	97	83-115	
Dichlorodifluoromethane	ug/L	20	20.7	103	13-185	
Ethylbenzene	ug/L	20	21.2	106	80-120	
Hexachloro-1,3-butadiene	ug/L	20	21.0	105	75-130	
Isopropylbenzene (Cumene)	ug/L	20	21.5	107	81-115	
Methyl-tert-butyl ether	ug/L	20	21.8	109	67-125	
Methylene Chloride	ug/L	20	21.5	108	80-126	
n-Butylbenzene	ug/L	20	21.2	106	83-122	
n-Propylbenzene	ug/L	20	22.0	110	83-116	
Naphthalene	ug/L	20	19.3	96	73-125	
p-Isopropyltoluene	ug/L	20	23.3	117	83-116 L1	
sec-Butylbenzene	ug/L	20	20.6	103	80-124	
Styrene	ug/L	20	21.6	108	85-120	
tert-Butylbenzene	ug/L	20	21.9	109	80-120	
Tetrachloroethene	ug/L	20	21.6	108	77-121	
Toluene	ug/L	20	21.4	107	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2514119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	19.4	97	76-123	
Trichloroethene	ug/L	20	21.5	107	80-121	
Trichlorofluoromethane	ug/L	20	21.0	105	64-124	
Vinyl chloride	ug/L	20	20.1	101	46-162	
Xylene (Total)	ug/L	60	64.7	108	80-120	
1,2-Dichloroethane-d4 (S)	%			99	77-122	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch:	616039	Analysis Method:	KS MRH/HRH
QC Batch Method:	EPA 3510C	Analysis Description:	EPA 8015 MD
Associated Lab Samples:	60318015009, 60318015010, 60318015011, 60318015012, 60318015013		

METHOD BLANK: 2514715 Matrix: Water
Associated Lab Samples: 60318015009, 60318015010, 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
HRH (C19-C35)	mg/L	ND	0.20	10/17/19 17:55	
MRH (C9-C18)	mg/L	ND	0.060	10/17/19 17:55	
1-Chloro-octadecane (S)	%	97	40-140	10/17/19 17:55	

LABORATORY CONTROL SAMPLE & LCSD: 2514716

Parameter	Units	2514717					% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
HRH (C19-C35)	mg/L	0.16	.17J	.19J	104	117	40-140		25	
MRH (C9-C18)	mg/L	0.12	0.088	0.095	74	79	40-140	7	25	
1-Chloro-octadecane (S)	%				95	103	40-140			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch:	615926	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	60318015005		

METHOD BLANK: 2514309 Matrix: Solid

Associated Lab Samples: 60318015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1221 (Aroclor 1221)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.5	10/16/19 14:26	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.5	10/16/19 14:26	
Decachlorobiphenyl (S)	%	70	28-143	10/16/19 14:26	CL

LABORATORY CONTROL SAMPLE: 2514310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	166	167	100	65-132	
PCB-1260 (Aroclor 1260)	ug/kg	166	148	89	65-138	
Decachlorobiphenyl (S)	%			74	28-143	CL

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615745 Analysis Method: EPA 8082
 QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB, RV
 Associated Lab Samples: 60318015011, 60318015012, 60318015013

METHOD BLANK: 2513636 Matrix: Water

Associated Lab Samples: 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1221 (Aroclor 1221)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1232 (Aroclor 1232)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1242 (Aroclor 1242)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1248 (Aroclor 1248)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1254 (Aroclor 1254)	mg/L	ND	0.0010	10/17/19 03:55	
PCB-1260 (Aroclor 1260)	mg/L	ND	0.0010	10/17/19 03:55	
Decachlorobiphenyl (S)	%	97	38-124	10/17/19 03:55	

LABORATORY CONTROL SAMPLE: 2513637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/L	0.01	0.0091	91	63-129	
PCB-1260 (Aroclor 1260)	mg/L	0.01	0.0087	87	57-143	
Decachlorobiphenyl (S)	%			98	38-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513638 2513639

Parameter	Units	60317490010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
PCB-1016 (Aroclor 1016)	mg/L	0.91 U ug/L	0.0094	0.0093	0.0085	0.0084	90	91	74-122	1	20		
PCB-1260 (Aroclor 1260)	mg/L	0.91 U ug/L	0.0094	0.0093	0.0083	0.0081	88	87	69-124	3	22		
Decachlorobiphenyl (S)	%						106	107	38-124				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615766 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

METHOD BLANK: 2513689 Matrix: Solid
Associated Lab Samples: 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.32	10/16/19 10:26	
1,2-Dichlorobenzene	mg/kg	ND	0.32	10/16/19 10:26	
1,3-Dichlorobenzene	mg/kg	ND	0.32	10/16/19 10:26	
1,4-Dichlorobenzene	mg/kg	ND	0.32	10/16/19 10:26	
2,4,5-Trichlorophenol	mg/kg	ND	0.32	10/16/19 10:26	
2,4,6-Trichlorophenol	mg/kg	ND	0.32	10/16/19 10:26	
2,4-Dichlorophenol	mg/kg	ND	0.32	10/16/19 10:26	
2,4-Dimethylphenol	mg/kg	ND	0.32	10/16/19 10:26	
2,4-Dinitrophenol	mg/kg	ND	1.6	10/16/19 10:26	
2,4-Dinitrotoluene	mg/kg	ND	0.32	10/16/19 10:26	
2,6-Dinitrotoluene	mg/kg	ND	0.32	10/16/19 10:26	
2-Chloronaphthalene	mg/kg	ND	0.32	10/16/19 10:26	
2-Chlorophenol	mg/kg	ND	0.32	10/16/19 10:26	
2-Methylnaphthalene	mg/kg	ND	0.32	10/16/19 10:26	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.32	10/16/19 10:26	
2-Nitroaniline	mg/kg	ND	0.64	10/16/19 10:26	
2-Nitrophenol	mg/kg	ND	0.32	10/16/19 10:26	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.32	10/16/19 10:26	
3,3'-Dichlorobenzidine	mg/kg	ND	0.64	10/16/19 10:26	
3-Nitroaniline	mg/kg	ND	0.64	10/16/19 10:26	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	10/16/19 10:26	
4-Bromophenylphenyl ether	mg/kg	ND	0.32	10/16/19 10:26	
4-Chloro-3-methylphenol	mg/kg	ND	0.64	10/16/19 10:26	
4-Chloroaniline	mg/kg	ND	0.64	10/16/19 10:26	
4-Chlorophenylphenyl ether	mg/kg	ND	0.32	10/16/19 10:26	
4-Nitroaniline	mg/kg	ND	0.64	10/16/19 10:26	
4-Nitrophenol	mg/kg	ND	1.6	10/16/19 10:26	
Acenaphthene	mg/kg	ND	0.32	10/16/19 10:26	
Acenaphthylene	mg/kg	ND	0.32	10/16/19 10:26	
Anthracene	mg/kg	ND	0.32	10/16/19 10:26	
Benzo(a)anthracene	mg/kg	ND	0.32	10/16/19 10:26	
Benzo(a)pyrene	mg/kg	ND	0.32	10/16/19 10:26	
Benzo(b)fluoranthene	mg/kg	ND	0.32	10/16/19 10:26	
Benzo(g,h,i)perylene	mg/kg	ND	0.32	10/16/19 10:26	
Benzo(k)fluoranthene	mg/kg	ND	0.32	10/16/19 10:26	
Benzoic Acid	mg/kg	ND	1.6	10/16/19 10:26	
Benzyl alcohol	mg/kg	ND	0.64	10/16/19 10:26	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.32	10/16/19 10:26	
bis(2-Chloroethyl) ether	mg/kg	ND	0.32	10/16/19 10:26	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.32	10/16/19 10:26	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.32	10/16/19 10:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2513689

Matrix: Solid

Associated Lab Samples: 60318015003, 60318015004, 60318015006, 60318015007, 60318015008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	mg/kg	ND	0.32	10/16/19 10:26	
Carbazole	mg/kg	ND	0.32	10/16/19 10:26	
Chrysene	mg/kg	ND	0.32	10/16/19 10:26	
Di-n-butylphthalate	mg/kg	ND	0.32	10/16/19 10:26	
Di-n-octylphthalate	mg/kg	ND	0.32	10/16/19 10:26	
Dibenz(a,h)anthracene	mg/kg	ND	0.32	10/16/19 10:26	
Dibenzofuran	mg/kg	ND	0.32	10/16/19 10:26	
Diethylphthalate	mg/kg	ND	0.32	10/16/19 10:26	
Dimethylphthalate	mg/kg	ND	0.32	10/16/19 10:26	
Fluoranthene	mg/kg	ND	0.32	10/16/19 10:26	
Fluorene	mg/kg	ND	0.32	10/16/19 10:26	
Hexachloro-1,3-butadiene	mg/kg	ND	0.32	10/16/19 10:26	
Hexachlorobenzene	mg/kg	ND	0.32	10/16/19 10:26	
Hexachlorocyclopentadiene	mg/kg	ND	0.32	10/16/19 10:26	
Hexachloroethane	mg/kg	ND	0.32	10/16/19 10:26	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.32	10/16/19 10:26	
Isophorone	mg/kg	ND	0.32	10/16/19 10:26	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.32	10/16/19 10:26	
N-Nitrosodiphenylamine	mg/kg	ND	0.32	10/16/19 10:26	
Naphthalene	mg/kg	ND	0.32	10/16/19 10:26	
Nitrobenzene	mg/kg	ND	0.32	10/16/19 10:26	
Pentachlorophenol	mg/kg	ND	1.6	10/16/19 10:26	
Phenanthrene	mg/kg	ND	0.32	10/16/19 10:26	
Phenol	mg/kg	ND	0.32	10/16/19 10:26	
Pyrene	mg/kg	ND	0.32	10/16/19 10:26	
Pyridine	mg/kg	ND	0.32	10/16/19 10:26	
2,4,6-Tribromophenol (S)	%	100	14-134	10/16/19 10:26	
2-Fluorobiphenyl (S)	%	91	47-124	10/16/19 10:26	
2-Fluorophenol (S)	%	83	31-126	10/16/19 10:26	
Nitrobenzene-d5 (S)	%	89	39-123	10/16/19 10:26	
Phenol-d6 (S)	%	81	40-119	10/16/19 10:26	
Terphenyl-d14 (S)	%	94	32-149	10/16/19 10:26	

LABORATORY CONTROL SAMPLE: 2513690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.6	1.4	88	55-96	
1,2-Dichlorobenzene	mg/kg	1.6	1.3	79	55-93	
1,3-Dichlorobenzene	mg/kg	1.6	1.3	78	55-92	
1,4-Dichlorobenzene	mg/kg	1.6	1.3	79	55-93	
2,4,5-Trichlorophenol	mg/kg	1.6	1.5	92	53-107	
2,4,6-Trichlorophenol	mg/kg	1.6	1.5	92	55-104	
2,4-Dichlorophenol	mg/kg	1.6	1.4	89	57-100	
2,4-Dimethylphenol	mg/kg	1.6	1.4	86	51-101	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	mg/kg	1.6	1.2J	77	10-121	
2,4-Dinitrotoluene	mg/kg	1.6	1.5	92	55-109	
2,6-Dinitrotoluene	mg/kg	1.6	1.5	91	59-102	
2-Chloronaphthalene	mg/kg	1.6	1.4	88	57-97	
2-Chlorophenol	mg/kg	1.6	1.3	82	57-97	
2-Methylnaphthalene	mg/kg	1.6	1.4	87	58-95	
2-Methylphenol(o-Cresol)	mg/kg	1.6	1.3	82	56-98	
2-Nitroaniline	mg/kg	1.6	1.4	89	60-101	
2-Nitrophenol	mg/kg	1.6	1.4	88	54-102	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.6	1.3	82	57-98	
3,3'-Dichlorobenzidine	mg/kg	1.6	1.3	82	20-118	
3-Nitroaniline	mg/kg	1.6	1.3	81	36-104	
4,6-Dinitro-2-methylphenol	mg/kg	1.6	1.2J	75	14-128	
4-Bromophenylphenyl ether	mg/kg	1.6	1.4	88	58-100	
4-Chloro-3-methylphenol	mg/kg	1.6	1.4	87	57-103	
4-Chloroaniline	mg/kg	1.6	1.1	71	10-96	
4-Chlorophenylphenyl ether	mg/kg	1.6	1.4	90	56-100	
4-Nitroaniline	mg/kg	1.6	1.4	87	58-99	
4-Nitrophenol	mg/kg	1.6	1.4J	84	55-108	
Acenaphthene	mg/kg	1.6	1.4	86	57-98	
Acenaphthylene	mg/kg	1.6	1.4	86	58-98	
Anthracene	mg/kg	1.6	1.4	86	60-100	
Benzo(a)anthracene	mg/kg	1.6	1.5	91	57-103	
Benzo(a)pyrene	mg/kg	1.6	1.5	92	58-103	
Benzo(b)fluoranthene	mg/kg	1.6	1.5	96	56-106	
Benzo(g,h,i)perylene	mg/kg	1.6	1.5	92	57-102	
Benzo(k)fluoranthene	mg/kg	1.6	1.4	85	56-107	
Benzoic Acid	mg/kg	1.6	.39J	24	10-106	
Benzyl alcohol	mg/kg	1.6	1.3	82	59-99	
bis(2-Chloroethoxy)methane	mg/kg	1.6	1.4	84	56-95	
bis(2-Chloroethyl) ether	mg/kg	1.6	1.3	79	55-96	
bis(2-Chloroisopropyl) ether	mg/kg	1.6	1.3	81	51-97	
bis(2-Ethylhexyl)phthalate	mg/kg	1.6	1.5	92	60-107	
Butylbenzylphthalate	mg/kg	1.6	1.5	91	61-105	
Carbazole	mg/kg	1.6	1.4	85	61-99	
Chrysene	mg/kg	1.6	1.4	90	59-103	
Di-n-butylphthalate	mg/kg	1.6	1.4	88	61-104	
Di-n-octylphthalate	mg/kg	1.6	1.5	92	59-108	
Dibenz(a,h)anthracene	mg/kg	1.6	1.5	93	56-104	
Dibenzofuran	mg/kg	1.6	1.4	86	58-97	
Diethylphthalate	mg/kg	1.6	1.4	89	57-102	
Dimethylphthalate	mg/kg	1.6	1.4	88	57-101	
Fluoranthene	mg/kg	1.6	1.4	89	60-102	
Fluorene	mg/kg	1.6	1.4	89	57-101	
Hexachloro-1,3-butadiene	mg/kg	1.6	1.4	88	52-97	
Hexachlorobenzene	mg/kg	1.6	1.4	87	55-100	
Hexachlorocyclopentadiene	mg/kg	1.6	0.98	61	22-61	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	mg/kg	1.6	1.3	80	54-93	
Indeno(1,2,3-cd)pyrene	mg/kg	1.6	1.5	93	55-105	
Isophorone	mg/kg	1.6	1.3	83	56-93	
N-Nitroso-di-n-propylamine	mg/kg	1.6	1.3	80	56-93	
N-Nitrosodiphenylamine	mg/kg	1.6	1.4	90	59-101	
Naphthalene	mg/kg	1.6	1.4	85	56-96	
Nitrobenzene	mg/kg	1.6	1.3	83	55-96	
Pentachlorophenol	mg/kg	1.6	ND	97	24-122	
Phenanthrene	mg/kg	1.6	1.4	84	59-100	
Phenol	mg/kg	1.6	1.3	84	54-102	
Pyrene	mg/kg	1.6	1.4	89	59-103	
Pyridine	mg/kg	1.6	0.89	56	29-86	
2,4,6-Tribromophenol (S)	%			94	14-134	
2-Fluorobiphenyl (S)	%			90	47-124	
2-Fluorophenol (S)	%			80	31-126	
Nitrobenzene-d5 (S)	%			85	39-123	
Phenol-d6 (S)	%			78	40-119	
Terphenyl-d14 (S)	%			93	32-149	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 616052

Analysis Method: EPA 8270

QC Batch Method: EPA 3546

Analysis Description: 8270 Solid MSSV Microwave

Associated Lab Samples: 60318015005

METHOD BLANK: 2514750

Matrix: Solid

Associated Lab Samples: 60318015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	ND	0.32	10/17/19 11:10	
1,2-Dichlorobenzene	mg/kg	ND	0.32	10/17/19 11:10	
1,3-Dichlorobenzene	mg/kg	ND	0.32	10/17/19 11:10	
1,4-Dichlorobenzene	mg/kg	ND	0.32	10/17/19 11:10	
2,4,5-Trichlorophenol	mg/kg	ND	0.32	10/17/19 11:10	
2,4,6-Trichlorophenol	mg/kg	ND	0.32	10/17/19 11:10	
2,4-Dichlorophenol	mg/kg	ND	0.32	10/17/19 11:10	
2,4-Dimethylphenol	mg/kg	ND	0.32	10/17/19 11:10	
2,4-Dinitrophenol	mg/kg	ND	1.6	10/17/19 11:10	
2,4-Dinitrotoluene	mg/kg	ND	0.32	10/17/19 11:10	
2,6-Dinitrotoluene	mg/kg	ND	0.32	10/17/19 11:10	
2-Chloronaphthalene	mg/kg	ND	0.32	10/17/19 11:10	
2-Chlorophenol	mg/kg	ND	0.32	10/17/19 11:10	
2-Methylnaphthalene	mg/kg	ND	0.32	10/17/19 11:10	
2-Methylphenol(o-Cresol)	mg/kg	ND	0.32	10/17/19 11:10	
2-Nitroaniline	mg/kg	ND	0.64	10/17/19 11:10	
2-Nitrophenol	mg/kg	ND	0.32	10/17/19 11:10	
3&4-Methylphenol(m&p Cresol)	mg/kg	ND	0.32	10/17/19 11:10	
3,3'-Dichlorobenzidine	mg/kg	ND	0.64	10/17/19 11:10	
3-Nitroaniline	mg/kg	ND	0.64	10/17/19 11:10	
4,6-Dinitro-2-methylphenol	mg/kg	ND	1.6	10/17/19 11:10	
4-Bromophenylphenyl ether	mg/kg	ND	0.32	10/17/19 11:10	
4-Chloro-3-methylphenol	mg/kg	ND	0.64	10/17/19 11:10	
4-Chloroaniline	mg/kg	ND	0.64	10/17/19 11:10	
4-Chlorophenylphenyl ether	mg/kg	ND	0.32	10/17/19 11:10	
4-Nitroaniline	mg/kg	ND	0.64	10/17/19 11:10	
4-Nitrophenol	mg/kg	ND	1.6	10/17/19 11:10	
Acenaphthene	mg/kg	ND	0.32	10/17/19 11:10	
Acenaphthylene	mg/kg	ND	0.32	10/17/19 11:10	
Anthracene	mg/kg	ND	0.32	10/17/19 11:10	
Benzo(a)anthracene	mg/kg	ND	0.32	10/17/19 11:10	
Benzo(a)pyrene	mg/kg	ND	0.32	10/17/19 11:10	
Benzo(b)fluoranthene	mg/kg	ND	0.32	10/17/19 11:10	
Benzo(g,h,i)perylene	mg/kg	ND	0.32	10/17/19 11:10	
Benzo(k)fluoranthene	mg/kg	ND	0.32	10/17/19 11:10	
Benzoic Acid	mg/kg	ND	1.6	10/17/19 11:10	
Benzyl alcohol	mg/kg	ND	0.64	10/17/19 11:10	
bis(2-Chloroethoxy)methane	mg/kg	ND	0.32	10/17/19 11:10	
bis(2-Chloroethyl) ether	mg/kg	ND	0.32	10/17/19 11:10	
bis(2-Chloroisopropyl) ether	mg/kg	ND	0.32	10/17/19 11:10	
bis(2-Ethylhexyl)phthalate	mg/kg	ND	0.32	10/17/19 11:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2514750

Matrix: Solid

Associated Lab Samples: 60318015005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	mg/kg	ND	0.32	10/17/19 11:10	
Carbazole	mg/kg	ND	0.32	10/17/19 11:10	
Chrysene	mg/kg	ND	0.32	10/17/19 11:10	
Di-n-butylphthalate	mg/kg	ND	0.32	10/17/19 11:10	
Di-n-octylphthalate	mg/kg	ND	0.32	10/17/19 11:10	
Dibenz(a,h)anthracene	mg/kg	ND	0.32	10/17/19 11:10	
Dibenzofuran	mg/kg	ND	0.32	10/17/19 11:10	
Diethylphthalate	mg/kg	ND	0.32	10/17/19 11:10	
Dimethylphthalate	mg/kg	ND	0.32	10/17/19 11:10	
Fluoranthene	mg/kg	ND	0.32	10/17/19 11:10	
Fluorene	mg/kg	ND	0.32	10/17/19 11:10	
Hexachloro-1,3-butadiene	mg/kg	ND	0.32	10/17/19 11:10	
Hexachlorobenzene	mg/kg	ND	0.32	10/17/19 11:10	
Hexachlorocyclopentadiene	mg/kg	ND	0.32	10/17/19 11:10	
Hexachloroethane	mg/kg	ND	0.32	10/17/19 11:10	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.32	10/17/19 11:10	
Isophorone	mg/kg	ND	0.32	10/17/19 11:10	
N-Nitroso-di-n-propylamine	mg/kg	ND	0.32	10/17/19 11:10	
N-Nitrosodiphenylamine	mg/kg	ND	0.32	10/17/19 11:10	
Naphthalene	mg/kg	ND	0.32	10/17/19 11:10	
Nitrobenzene	mg/kg	ND	0.32	10/17/19 11:10	
Pentachlorophenol	mg/kg	ND	1.6	10/17/19 11:10	
Phenanthrene	mg/kg	ND	0.32	10/17/19 11:10	
Phenol	mg/kg	ND	0.32	10/17/19 11:10	
Pyrene	mg/kg	ND	0.32	10/17/19 11:10	
Pyridine	mg/kg	ND	0.32	10/17/19 11:10	
2,4,6-Tribromophenol (S)	%	89	14-134	10/17/19 11:10	
2-Fluorobiphenyl (S)	%	83	47-124	10/17/19 11:10	
2-Fluorophenol (S)	%	77	31-126	10/17/19 11:10	
Nitrobenzene-d5 (S)	%	81	39-123	10/17/19 11:10	
Phenol-d6 (S)	%	74	40-119	10/17/19 11:10	
Terphenyl-d14 (S)	%	84	32-149	10/17/19 11:10	

LABORATORY CONTROL SAMPLE: 2514751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/kg	1.6	1.3	83	55-96	
1,2-Dichlorobenzene	mg/kg	1.6	1.2	74	55-93	
1,3-Dichlorobenzene	mg/kg	1.6	1.2	72	55-92	
1,4-Dichlorobenzene	mg/kg	1.6	1.2	74	55-93	
2,4,5-Trichlorophenol	mg/kg	1.6	1.3	83	53-107	
2,4,6-Trichlorophenol	mg/kg	1.6	1.4	84	55-104	
2,4-Dichlorophenol	mg/kg	1.6	1.3	82	57-100	
2,4-Dimethylphenol	mg/kg	1.6	1.3	80	51-101	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2514751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	mg/kg	1.6	1.3J	78	10-121	
2,4-Dinitrotoluene	mg/kg	1.6	1.3	82	55-109	
2,6-Dinitrotoluene	mg/kg	1.6	1.3	83	59-102	
2-Chloronaphthalene	mg/kg	1.6	1.3	81	57-97	
2-Chlorophenol	mg/kg	1.6	1.2	75	57-97	
2-Methylnaphthalene	mg/kg	1.6	1.3	80	58-95	
2-Methylphenol(o-Cresol)	mg/kg	1.6	1.2	75	56-98	
2-Nitroaniline	mg/kg	1.6	1.3	81	60-101	
2-Nitrophenol	mg/kg	1.6	1.3	81	54-102	
3&4-Methylphenol(m&p Cresol)	mg/kg	1.6	1.2	74	57-98	
3,3'-Dichlorobenzidine	mg/kg	1.6	1.1	68	20-118	
3-Nitroaniline	mg/kg	1.6	1.1	66	36-104	
4,6-Dinitro-2-methylphenol	mg/kg	1.6	1.2J	73	14-128	
4-Bromophenylphenyl ether	mg/kg	1.6	1.3	81	58-100	
4-Chloro-3-methylphenol	mg/kg	1.6	1.3	80	57-103	
4-Chloroaniline	mg/kg	1.6	0.91	57	10-96	
4-Chlorophenylphenyl ether	mg/kg	1.6	1.3	83	56-100	
4-Nitroaniline	mg/kg	1.6	1.3	78	58-99	
4-Nitrophenol	mg/kg	1.6	1.2J	76	55-108	
Acenaphthene	mg/kg	1.6	1.3	81	57-98	
Acenaphthylene	mg/kg	1.6	1.3	81	58-98	
Anthracene	mg/kg	1.6	1.3	79	60-100	
Benzo(a)anthracene	mg/kg	1.6	1.3	83	57-103	
Benzo(a)pyrene	mg/kg	1.6	1.4	84	58-103	
Benzo(b)fluoranthene	mg/kg	1.6	1.4	88	56-106	
Benzo(g,h,i)perylene	mg/kg	1.6	1.4	84	57-102	
Benzo(k)fluoranthene	mg/kg	1.6	1.3	78	56-107	
Benzoic Acid	mg/kg	1.6	.5J	31	10-106	
Benzyl alcohol	mg/kg	1.6	1.2	75	59-99	
bis(2-Chloroethoxy)methane	mg/kg	1.6	1.3	78	56-95	
bis(2-Chloroethyl) ether	mg/kg	1.6	1.2	73	55-96	
bis(2-Chloroisopropyl) ether	mg/kg	1.6	1.2	77	51-97	
bis(2-Ethylhexyl)phthalate	mg/kg	1.6	1.4	84	60-107	
Butylbenzylphthalate	mg/kg	1.6	1.3	83	61-105	
Carbazole	mg/kg	1.6	1.3	78	61-99	
Chrysene	mg/kg	1.6	1.3	82	59-103	
Di-n-butylphthalate	mg/kg	1.6	1.3	82	61-104	
Di-n-octylphthalate	mg/kg	1.6	1.4	84	59-108	
Dibenz(a,h)anthracene	mg/kg	1.6	1.4	85	56-104	
Dibenzofuran	mg/kg	1.6	1.3	80	58-97	
Diethylphthalate	mg/kg	1.6	1.3	81	57-102	
Dimethylphthalate	mg/kg	1.6	1.3	81	57-101	
Fluoranthene	mg/kg	1.6	1.3	82	60-102	
Fluorene	mg/kg	1.6	1.3	81	57-101	
Hexachloro-1,3-butadiene	mg/kg	1.6	1.4	84	52-97	
Hexachlorobenzene	mg/kg	1.6	1.3	80	55-100	
Hexachlorocyclopentadiene	mg/kg	1.6	0.81	50	22-61	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2514751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	mg/kg	1.6	1.2	74	54-93	
Indeno(1,2,3-cd)pyrene	mg/kg	1.6	1.4	85	55-105	
Isophorone	mg/kg	1.6	1.2	77	56-93	
N-Nitroso-di-n-propylamine	mg/kg	1.6	1.2	73	56-93	
N-Nitrosodiphenylamine	mg/kg	1.6	1.3	83	59-101	
Naphthalene	mg/kg	1.6	1.3	79	56-96	
Nitrobenzene	mg/kg	1.6	1.3	79	55-96	
Pentachlorophenol	mg/kg	1.6	1.5J	93	24-122	
Phenanthrene	mg/kg	1.6	1.3	78	59-100	
Phenol	mg/kg	1.6	1.2	76	54-102	
Pyrene	mg/kg	1.6	1.3	82	59-103	
Pyridine	mg/kg	1.6	0.83	51	29-86	
2,4,6-Tribromophenol (S)	%			86	14-134	
2-Fluorobiphenyl (S)	%			86	47-124	
2-Fluorophenol (S)	%			76	31-126	
Nitrobenzene-d5 (S)	%			81	39-123	
Phenol-d6 (S)	%			73	40-119	
Terphenyl-d14 (S)	%			87	32-149	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch: 615743 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV, RV
 Associated Lab Samples: 60318015011, 60318015012, 60318015013

METHOD BLANK: 2513630 Matrix: Water

Associated Lab Samples: 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	10/16/19 09:19	
1,2-Dichlorobenzene	ug/L	ND	10.0	10/16/19 09:19	
1,3-Dichlorobenzene	ug/L	ND	10.0	10/16/19 09:19	
1,4-Dichlorobenzene	ug/L	ND	10.0	10/16/19 09:19	
2,4,5-Trichlorophenol	ug/L	ND	25.0	10/16/19 09:19	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/16/19 09:19	
2,4-Dichlorophenol	ug/L	ND	10.0	10/16/19 09:19	
2,4-Dimethylphenol	ug/L	ND	10.0	10/16/19 09:19	
2,4-Dinitrophenol	ug/L	ND	50.0	10/16/19 09:19	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/16/19 09:19	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/16/19 09:19	
2-Chloronaphthalene	ug/L	ND	10.0	10/16/19 09:19	
2-Chlorophenol	ug/L	ND	10.0	10/16/19 09:19	
2-Methylnaphthalene	ug/L	ND	10.0	10/16/19 09:19	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/16/19 09:19	
2-Nitroaniline	ug/L	ND	50.0	10/16/19 09:19	
2-Nitrophenol	ug/L	ND	10.0	10/16/19 09:19	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/16/19 09:19	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/16/19 09:19	
3-Nitroaniline	ug/L	ND	50.0	10/16/19 09:19	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	10/16/19 09:19	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/16/19 09:19	
4-Chloro-3-methylphenol	ug/L	ND	20.0	10/16/19 09:19	
4-Chloroaniline	ug/L	ND	20.0	10/16/19 09:19	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/16/19 09:19	
4-Nitroaniline	ug/L	ND	50.0	10/16/19 09:19	
4-Nitrophenol	ug/L	ND	50.0	10/16/19 09:19	
Acenaphthene	ug/L	ND	10.0	10/16/19 09:19	
Acenaphthylene	ug/L	ND	10.0	10/16/19 09:19	
Anthracene	ug/L	ND	10.0	10/16/19 09:19	
Benzo(a)anthracene	ug/L	ND	10.0	10/16/19 09:19	
Benzo(a)pyrene	ug/L	ND	10.0	10/16/19 09:19	
Benzo(b)fluoranthene	ug/L	ND	10.0	10/16/19 09:19	
Benzo(g,h,i)perylene	ug/L	ND	10.0	10/16/19 09:19	
Benzo(k)fluoranthene	ug/L	ND	10.0	10/16/19 09:19	
Benzoic Acid	ug/L	ND	50.0	10/16/19 09:19	
Benzyl alcohol	ug/L	ND	20.0	10/16/19 09:19	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/16/19 09:19	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/16/19 09:19	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	10/16/19 09:19	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	10/16/19 09:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

METHOD BLANK: 2513630

Matrix: Water

Associated Lab Samples: 60318015011, 60318015012, 60318015013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	ND	10.0	10/16/19 09:19	
Carbazole	ug/L	ND	10.0	10/16/19 09:19	
Chrysene	ug/L	ND	10.0	10/16/19 09:19	
Di-n-butylphthalate	ug/L	ND	10.0	10/16/19 09:19	
Di-n-octylphthalate	ug/L	ND	10.0	10/16/19 09:19	
Dibenz(a,h)anthracene	ug/L	ND	10.0	10/16/19 09:19	
Dibenzofuran	ug/L	ND	10.0	10/16/19 09:19	
Diethylphthalate	ug/L	ND	10.0	10/16/19 09:19	
Dimethylphthalate	ug/L	ND	10.0	10/16/19 09:19	
Fluoranthene	ug/L	ND	10.0	10/16/19 09:19	
Fluorene	ug/L	ND	10.0	10/16/19 09:19	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/16/19 09:19	
Hexachlorobenzene	ug/L	ND	10.0	10/16/19 09:19	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/16/19 09:19	
Hexachloroethane	ug/L	ND	10.0	10/16/19 09:19	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	10/16/19 09:19	
Isophorone	ug/L	ND	10.0	10/16/19 09:19	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	10/16/19 09:19	
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/16/19 09:19	
Naphthalene	ug/L	ND	10.0	10/16/19 09:19	
Nitrobenzene	ug/L	ND	10.0	10/16/19 09:19	
Pentachlorophenol	ug/L	ND	50.0	10/16/19 09:19	
Phenanthrene	ug/L	ND	10.0	10/16/19 09:19	
Phenol	ug/L	ND	10.0	10/16/19 09:19	
Pyrene	ug/L	ND	10.0	10/16/19 09:19	
Pyridine	ug/L	ND	10.0	10/16/19 09:19	
2,4,6-Tribromophenol (S)	%	99	16-114	10/16/19 09:19	
2-Fluorobiphenyl (S)	%	86	29-108	10/16/19 09:19	
2-Fluorophenol (S)	%	63	11-64	10/16/19 09:19	
Nitrobenzene-d5 (S)	%	89	27-106	10/16/19 09:19	
Phenol-d6 (S)	%	47	10-44	10/16/19 09:19	S3
Terphenyl-d14 (S)	%	97	34-129	10/16/19 09:19	

LABORATORY CONTROL SAMPLE: 2513631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	100	85.3	85	22-109	
1,2-Dichlorobenzene	ug/L	100	74.7	75	18-107	
1,3-Dichlorobenzene	ug/L	100	74.2	74	16-105	
1,4-Dichlorobenzene	ug/L	100	74.7	75	17-105	
2,4,5-Trichlorophenol	ug/L	100	93.2	93	25-126	
2,4,6-Trichlorophenol	ug/L	100	92.8	93	23-124	
2,4-Dichlorophenol	ug/L	100	86.4	86	26-116	
2,4-Dimethylphenol	ug/L	100	84.4	84	36-98	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrophenol	ug/L	100	95.5	95	11-138	
2,4-Dinitrotoluene	ug/L	100	94.8	95	30-127	
2,6-Dinitrotoluene	ug/L	100	96.3	96	30-125	
2-Chloronaphthalene	ug/L	100	90.6	91	28-115	
2-Chlorophenol	ug/L	100	77.0	77	25-107	
2-Methylnaphthalene	ug/L	100	86.4	86	25-112	
2-Methylphenol(o-Cresol)	ug/L	100	76.0	76	30-94	
2-Nitroaniline	ug/L	100	91.7	92	29-126	
2-Nitrophenol	ug/L	100	91.4	91	26-122	
3&4-Methylphenol(m&p Cresol)	ug/L	100	74.1	74	26-89	
3,3'-Dichlorobenzidine	ug/L	100	105	105	24-140	
3-Nitroaniline	ug/L	100	108	108	30-139	
4,6-Dinitro-2-methylphenol	ug/L	100	93.8	94	21-135	
4-Bromophenylphenyl ether	ug/L	100	95.7	96	30-121	
4-Chloro-3-methylphenol	ug/L	100	86.4	86	28-117	
4-Chloroaniline	ug/L	100	101	101	22-136	
4-Chlorophenylphenyl ether	ug/L	100	94.7	95	30-119	
4-Nitroaniline	ug/L	100	96.6	97	31-129	
4-Nitrophenol	ug/L	100	56.4	56	10-64	
Acenaphthene	ug/L	100	91.3	91	29-117	
Acenaphthylene	ug/L	100	90.4	90	27-119	
Anthracene	ug/L	100	92.8	93	27-124	
Benzo(a)anthracene	ug/L	100	96.7	97	30-124	
Benzo(a)pyrene	ug/L	100	96.2	96	29-123	
Benzo(b)fluoranthene	ug/L	100	99.0	99	29-127	
Benzo(g,h,i)perylene	ug/L	100	99.1	99	30-124	
Benzo(k)fluoranthene	ug/L	100	93.2	93	29-125	
Benzoic Acid	ug/L	100	23.1J	23	10-71	
Benzyl alcohol	ug/L	100	77.8	78	23-105	
bis(2-Chloroethoxy)methane	ug/L	100	86.5	87	29-115	
bis(2-Chloroethyl) ether	ug/L	100	78.8	79	28-114	
bis(2-Chloroisopropyl) ether	ug/L	100	82.7	83	27-114	
bis(2-Ethylhexyl)phthalate	ug/L	100	100	100	35-128	
Butylbenzylphthalate	ug/L	100	97.3	97	28-114	
Carbazole	ug/L	100	92.3	92	31-124	
Chrysene	ug/L	100	97.1	97	31-124	
Di-n-butylphthalate	ug/L	100	96.2	96	29-130	
Di-n-octylphthalate	ug/L	100	97.1	97	27-135	
Dibenz(a,h)anthracene	ug/L	100	100	100	30-125	
Dibenzofuran	ug/L	100	90.4	90	30-118	
Diethylphthalate	ug/L	100	93.3	93	30-123	
Dimethylphthalate	ug/L	100	93.0	93	29-121	
Fluoranthene	ug/L	100	96.8	97	31-126	
Fluorene	ug/L	100	91.9	92	30-120	
Hexachloro-1,3-butadiene	ug/L	100	81.1	81	14-107	
Hexachlorobenzene	ug/L	100	95.9	96	29-123	
Hexachlorocyclopentadiene	ug/L	100	48.3	48	10-56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

LABORATORY CONTROL SAMPLE: 2513631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L	100	71.6	72	14-103	
Indeno(1,2,3-cd)pyrene	ug/L	100	99.5	99	29-124	
Isophorone	ug/L	100	86.6	87	29-117	
N-Nitroso-di-n-propylamine	ug/L	100	82.5	82	28-117	
N-Nitrosodiphenylamine	ug/L	100	93.0	93	30-122	
Naphthalene	ug/L	100	85.2	85	25-111	
Nitrobenzene	ug/L	100	85.4	85	28-116	
Pentachlorophenol	ug/L	100	100	100	17-134	
Phenanthrene	ug/L	100	92.0	92	30-121	
Phenol	ug/L	100	54.9	55	10-58	
Pyrene	ug/L	100	95.1	95	31-124	
Pyridine	ug/L	100	51.0	51	10-73	
2,4,6-Tribromophenol (S)	%			101	16-114	
2-Fluorobiphenyl (S)	%			94	29-108	
2-Fluorophenol (S)	%			61	11-64	
Nitrobenzene-d5 (S)	%			90	27-106	
Phenol-d6 (S)	%			48	10-44	S0
Terphenyl-d14 (S)	%			102	34-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

QC Batch:	615501	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60318015001, 60318015002, 60318015003, 60318015004, 60318015005, 60318015006, 60318015007, 60318015008		

METHOD BLANK:	2512865	Matrix:	Solid
Associated Lab Samples:	60318015001, 60318015002, 60318015003, 60318015004, 60318015005, 60318015006, 60318015007, 60318015008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/14/19 11:36	

SAMPLE DUPLICATE: 2512866

Parameter	Units	60317914003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	12.9	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: 615697

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 615872

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60318015001	SB-1 (26-27)	EPA 3546	615750	KS MRH/HRH	615933
60318015002	SB-2 (22-23)	EPA 3546	615750	KS MRH/HRH	615933
60318015003	SB-3 (18-19)	EPA 3546	615750	KS MRH/HRH	615933
60318015004	SB-4 (11.5-12.5)	EPA 3546	615750	KS MRH/HRH	615933
60318015006	SB-5 (8-10)	EPA 3546	615750	KS MRH/HRH	615933
60318015007	SB-6 (4-6)	EPA 3546	615750	KS MRH/HRH	615933
60318015008	SB-7 (24-25)	EPA 3546	615750	KS MRH/HRH	615933
60318015009	MW-1	EPA 3510C	616039	KS MRH/HRH	616618
60318015010	MW-2	EPA 3510C	616039	KS MRH/HRH	616618
60318015011	MW-3	EPA 3510C	616039	KS MRH/HRH	616618
60318015012	MW-5	EPA 3510C	616039	KS MRH/HRH	616618
60318015013	MW-7	EPA 3510C	616039	KS MRH/HRH	616618
60318015003	SB-3 (18-19)	EPA 3546	615740	EPA 8082	616119
60318015004	SB-4 (11.5-12.5)	EPA 3546	615740	EPA 8082	616119
60318015005	SB-5 (4-5)	EPA 3546	615926	EPA 8082	616166
60318015006	SB-5 (8-10)	EPA 3546	615740	EPA 8082	616119
60318015007	SB-6 (4-6)	EPA 3546	615740	EPA 8082	616119
60318015008	SB-7 (24-25)	EPA 3546	615740	EPA 8082	616119
60318015011	MW-3	EPA 3510	615745	EPA 8082	616243
60318015012	MW-5	EPA 3510	615745	EPA 8082	616243
60318015013	MW-7	EPA 3510	615745	EPA 8082	616243
60318015001	SB-1 (26-27)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015002	SB-2 (22-23)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015003	SB-3 (18-19)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015004	SB-4 (11.5-12.5)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015006	SB-5 (8-10)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015007	SB-6 (4-6)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015008	SB-7 (24-25)	EPA 5035A/5030B	615648	EPA 8015B	616128
60318015009	MW-1	KS LRH: EPA 5030B/8015C	615791		
60318015010	MW-2	KS LRH: EPA 5030B/8015C	615791		
60318015011	MW-3	KS LRH: EPA 5030B/8015C	616516		
60318015012	MW-5	KS LRH: EPA 5030B/8015C	616516		
60318015013	MW-7	KS LRH: EPA 5030B/8015C	616516		
60318015001	SB-1 (26-27)	EPA 3050	615870	EPA 6010	616046
60318015002	SB-2 (22-23)	EPA 3050	615870	EPA 6010	616046
60318015003	SB-3 (18-19)	EPA 3050	615870	EPA 6010	616046
60318015004	SB-4 (11.5-12.5)	EPA 3050	615870	EPA 6010	616046
60318015005	SB-5 (4-5)	EPA 3050	615870	EPA 6010	616046
60318015006	SB-5 (8-10)	EPA 3050	615870	EPA 6010	616046
60318015007	SB-6 (4-6)	EPA 3050	615870	EPA 6010	616046
60318015008	SB-7 (24-25)	EPA 3050	615870	EPA 6010	616046

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60318015009	MW-1	EPA 3010	616084	EPA 6010	616145
60318015010	MW-2	EPA 3010	616084	EPA 6010	616145
60318015011	MW-3	EPA 3010	616084	EPA 6010	616145
60318015012	MW-5	EPA 3010	616084	EPA 6010	616145
60318015013	MW-7	EPA 3010	616084	EPA 6010	616145
60318015009	MW-1	EPA 7470	616155	EPA 7470	616198
60318015010	MW-2	EPA 7470	616155	EPA 7470	616198
60318015011	MW-3	EPA 7470	616155	EPA 7470	616198
60318015012	MW-5	EPA 7470	616155	EPA 7470	616198
60318015013	MW-7	EPA 7470	616155	EPA 7470	616198
60318015001	SB-1 (26-27)	EPA 7471	615781	EPA 7471	615838
60318015002	SB-2 (22-23)	EPA 7471	615781	EPA 7471	615838
60318015003	SB-3 (18-19)	EPA 7471	615781	EPA 7471	615838
60318015004	SB-4 (11.5-12.5)	EPA 7471	615781	EPA 7471	615838
60318015005	SB-5 (4-5)	EPA 7471	615854	EPA 7471	615901
60318015006	SB-5 (8-10)	EPA 7471	615781	EPA 7471	615838
60318015007	SB-6 (4-6)	EPA 7471	615781	EPA 7471	615838
60318015008	SB-7 (24-25)	EPA 7471	615781	EPA 7471	615838
60318015003	SB-3 (18-19)	EPA 3546	615766	EPA 8270	616088
60318015004	SB-4 (11.5-12.5)	EPA 3546	615766	EPA 8270	616088
60318015005	SB-5 (4-5)	EPA 3546	616052	EPA 8270	616379
60318015006	SB-5 (8-10)	EPA 3546	615766	EPA 8270	616088
60318015007	SB-6 (4-6)	EPA 3546	615766	EPA 8270	616088
60318015008	SB-7 (24-25)	EPA 3546	615766	EPA 8270	616088
60318015011	MW-3	EPA 3510	615743	EPA 8270	616062
60318015012	MW-5	EPA 3510	615743	EPA 8270	616062
60318015013	MW-7	EPA 3510	615743	EPA 8270	616062
60318015001	SB-1 (26-27)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015002	SB-2 (22-23)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015003	SB-3 (18-19)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015004	SB-4 (11.5-12.5)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015006	SB-5 (8-10)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015007	SB-6 (4-6)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015008	SB-7 (24-25)	EPA 5035A/5030	615702	EPA 8260B	615794
60318015010	MW-2	EPA 5030B/8260	615697		
60318015011	MW-3	EPA 5030B/8260	615697		
60318015012	MW-5	EPA 5030B/8260	615697		
60318015013	MW-7	EPA 5030B/8260	615697		
60318015014	TRIP BLANK	EPA 5030B/8260	615697		
60318015009	MW-1	EPA 5030B/8260	615872		
60318015001	SB-1 (26-27)	ASTM D2974	615501		
60318015002	SB-2 (22-23)	ASTM D2974	615501		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AWG-LEAVENWORTH, KS PHASE II E

Pace Project No.: 60318015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60318015003	SB-3 (18-19)	ASTM D2974	615501		
60318015004	SB-4 (11.5-12.5)	ASTM D2974	615501		
60318015005	SB-5 (4-5)	ASTM D2974	615501		
60318015006	SB-5 (8-10)	ASTM D2974	615501		
60318015007	SB-6 (4-6)	ASTM D2974	615501		
60318015008	SB-7 (24-25)	ASTM D2974	615501		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Sample Condition Upon Receipt

WO#: 60318015
Barcode
60318015

Client Name: Envir. Works

Courier: FedEx [] UPS [] VIA [] Clay [] PEX [] ECI [] Pace [x] Xroads [] Client [] Other []

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [] None [] Other []

Thermometer Used: 2796 Type of Ice: Wet [x] Blue [] None []

Cooler Temperature (°C): As-read 2.9, 2.1, 3.5, 3.3 Corr. Factor 0.12 Corrected 3.7, 2.8, 4.0, 3.7

Date and initials of person examining contents: 10/24/19

Temperature should be above freezing to 6°C

Table with 3 columns: Question, Yes/No/N/A checkboxes, and Notes. Rows include Chain of Custody, Short Hold Time, Rush Turn Around Time, Sufficient volume, Containers intact, etc.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:



CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Greg Dillon
Environmental Works, Inc.
1731 Locust Street
Kansas City, MO 64108

Wednesday, October 16, 2019
Order No.: C1910044

TEL: (816) 285-8435
FAX
RE: 2107 S, 4th St.

Dear Greg Dillon:

Centek Laboratories, LLC received 3 sample(s) on 10/15/2019 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable

for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, Tetrahydrofuran, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit

application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.



CLIENT: Environmental Works, Inc.
Project: 2107 S, 4th St.
Lab Order: C1910044

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (± 2 ", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (± 1 ", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, ± 1 ". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name **ENVIROWORKS - KANSAS C**

Date and Time Receive

10/15/2019

Work Order Numbe **C1910044**

Received by

DH

Checklist completed by

[Signature]
Signature

10-15-2019

Date

Reviewed by

111

Initials

10/16/19

Date

Matrix:

Carrier name: FedEx Ground

- Shipping container/cooler in good condition? Yes No Not Presen
- Custody seals intact on shipping container/cooler? Yes No Not Presen
- Custody seals intact on sample bottles? Yes No Not Presen
- Chain of custody present? Yes No
- COC signed when relinquished and received? Yes No
- COC agrees with sample labels? Yes No
- COC completely filled out? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted yes Date contacted: 10-15-2019 Person contacted Greg Dillon

Contacted by: DH Regarding: Incorrect canister number

Comments: COC canister number was incorrect. The COC reflected canister number "173", the canister number was actually "1173".

Corrective Action Changed COC canister number from "173" to "1173".



CLIENT: Environmental Works, Inc.
Project: 2107 S, 4th St.
Lab Order: C1910044

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1910044-001A	2107-SVW-1	1173, 00526	10/11/2019	10/15/2019
C1910044-002A	2107-SVW-2	138, 00839	10/11/2019	10/15/2019
C1910044-003A	2107-SVW-3	563, 00773	10/11/2019	10/15/2019

Lab Order: C1910044
 Client: Environmental Works, Inc.
 Project: 2107 S, 4th St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1910044-001A	2107-SVW-1	10/11/2019	Air	1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019
				1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019
C1910044-002A	2107-SVW-2			1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019
				1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019
C1910044-003A	2107-SVW-3			1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019
				1ug/M3 w/ Naphthalene & TBA by Method TO15			10/16/2019

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-001A

Client Sample ID: 2107-SVW-1
Tag Number: 1173, 00526
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T			TO-15			Analyst: RJP
1,1,1-Trichloroethane	ND	0.82		ug/m3	1	10/16/2019 12:18:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		ug/m3	1	10/16/2019 12:18:00 AM
1,1,2-Trichloroethane	ND	0.82		ug/m3	1	10/16/2019 12:18:00 AM
1,1-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 12:18:00 AM
1,1-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 12:18:00 AM
1,2,4-Trichlorobenzene	ND	1.1		ug/m3	1	10/16/2019 12:18:00 AM
1,2,4-Trimethylbenzene	3.8	0.74		ug/m3	1	10/16/2019 12:18:00 AM
1,2-Dibromoethane	ND	1.2		ug/m3	1	10/16/2019 12:18:00 AM
1,2-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 12:18:00 AM
1,2-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 12:18:00 AM
1,2-Dichloropropane	ND	0.69		ug/m3	1	10/16/2019 12:18:00 AM
1,3,5-Trimethylbenzene	2.7	0.74		ug/m3	1	10/16/2019 12:18:00 AM
1,3-butadiene	ND	0.33		ug/m3	1	10/16/2019 12:18:00 AM
1,3-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 12:18:00 AM
1,4-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 12:18:00 AM
1,4-Dioxane	ND	1.1		ug/m3	1	10/16/2019 12:18:00 AM
2,2,4-trimethylpentane	1.9	0.70		ug/m3	1	10/16/2019 12:18:00 AM
4-ethyltoluene	1.5	0.74		ug/m3	1	10/16/2019 12:18:00 AM
Acetone	53	14		ug/m3	20	10/16/2019 3:17:00 AM
Allyl chloride	ND	0.47		ug/m3	1	10/16/2019 12:18:00 AM
Benzene	7.2	0.48		ug/m3	1	10/16/2019 12:18:00 AM
Benzyl chloride	ND	0.86		ug/m3	1	10/16/2019 12:18:00 AM
Bromodichloromethane	2.5	1.0		ug/m3	1	10/16/2019 12:18:00 AM
Bromoform	ND	1.6		ug/m3	1	10/16/2019 12:18:00 AM
Bromomethane	ND	0.58		ug/m3	1	10/16/2019 12:18:00 AM
Carbon disulfide	32	9.3		ug/m3	20	10/16/2019 3:17:00 AM
Carbon tetrachloride	ND	0.94		ug/m3	1	10/16/2019 12:18:00 AM
Chlorobenzene	ND	0.69		ug/m3	1	10/16/2019 12:18:00 AM
Chloroethane	ND	0.40		ug/m3	1	10/16/2019 12:18:00 AM
Chloroform	49	15		ug/m3	20	10/16/2019 3:17:00 AM
Chloromethane	ND	0.31		ug/m3	1	10/16/2019 12:18:00 AM
cis-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 12:18:00 AM
cis-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 12:18:00 AM
Cyclohexane	11	10		ug/m3	20	10/16/2019 3:17:00 AM
Dibromochloromethane	ND	1.3		ug/m3	1	10/16/2019 12:18:00 AM
Ethyl acetate	ND	0.90		ug/m3	1	10/16/2019 12:18:00 AM
Ethylbenzene	7.2	0.65		ug/m3	1	10/16/2019 12:18:00 AM
Freon 11	3.3	0.84		ug/m3	1	10/16/2019 12:18:00 AM
Freon 113	ND	1.1		ug/m3	1	10/16/2019 12:18:00 AM
Freon 114	68	21		ug/m3	20	10/16/2019 3:17:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-001A

Client Sample ID: 2107-SVW-1
Tag Number: 1173, 00526
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T						Analyst: RJP
Freon 12	6.8	0.74		ug/m3	1	10/16/2019 12:18:00 AM
Heptane	23	12		ug/m3	20	10/16/2019 3:17:00 AM
Hexachloro-1,3-butadiene	ND	1.6		ug/m3	1	10/16/2019 12:18:00 AM
Hexane	16	11		ug/m3	20	10/16/2019 3:17:00 AM
Isopropyl alcohol	5.0	0.37		ug/m3	1	10/16/2019 12:18:00 AM
m&p-Xylene	6.5	1.3		ug/m3	1	10/16/2019 12:18:00 AM
Methyl Butyl Ketone	ND	1.2		ug/m3	1	10/16/2019 12:18:00 AM
Methyl Ethyl Ketone	11	18	J	ug/m3	20	10/16/2019 3:17:00 AM
Methyl Isobutyl Ketone	ND	1.2		ug/m3	1	10/16/2019 12:18:00 AM
Methyl tert-butyl ether	ND	0.54		ug/m3	1	10/16/2019 12:18:00 AM
Methylene chloride	0.80	0.52		ug/m3	1	10/16/2019 12:18:00 AM
Naphthalene	0.89	0.79		ug/m3	1	10/16/2019 12:18:00 AM
o-Xylene	2.6	0.65		ug/m3	1	10/16/2019 12:18:00 AM
Propylene	ND	0.26		ug/m3	1	10/16/2019 12:18:00 AM
Styrene	1.2	0.64		ug/m3	1	10/16/2019 12:18:00 AM
Tetrachloroethylene	0.68	1.0	J	ug/m3	1	10/16/2019 12:18:00 AM
Tetrahydrofuran	ND	0.44		ug/m3	1	10/16/2019 12:18:00 AM
Toluene	14	11		ug/m3	20	10/16/2019 3:17:00 AM
trans-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 12:18:00 AM
trans-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 12:18:00 AM
Trichloroethene	ND	0.81		ug/m3	1	10/16/2019 12:18:00 AM
Vinyl acetate	ND	0.53		ug/m3	1	10/16/2019 12:18:00 AM
Vinyl Bromide	ND	0.66		ug/m3	1	10/16/2019 12:18:00 AM
Vinyl chloride	ND	0.38		ug/m3	1	10/16/2019 12:18:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-002A

Client Sample ID: 2107-SVW-2
Tag Number: 138, 00839
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	ND	0.82		ug/m3	1	10/16/2019 1:03:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		ug/m3	1	10/16/2019 1:03:00 AM
1,1,2-Trichloroethane	ND	0.82		ug/m3	1	10/16/2019 1:03:00 AM
1,1-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 1:03:00 AM
1,1-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:03:00 AM
1,2,4-Trichlorobenzene	ND	1.1		ug/m3	1	10/16/2019 1:03:00 AM
1,2,4-Trimethylbenzene	1.9	0.74		ug/m3	1	10/16/2019 1:03:00 AM
1,2-Dibromoethane	ND	1.2		ug/m3	1	10/16/2019 1:03:00 AM
1,2-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:03:00 AM
1,2-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 1:03:00 AM
1,2-Dichloropropane	ND	0.69		ug/m3	1	10/16/2019 1:03:00 AM
1,3,5-Trimethylbenzene	0.93	0.74		ug/m3	1	10/16/2019 1:03:00 AM
1,3-butadiene	ND	0.33		ug/m3	1	10/16/2019 1:03:00 AM
1,3-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:03:00 AM
1,4-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:03:00 AM
1,4-Dioxane	ND	1.1		ug/m3	1	10/16/2019 1:03:00 AM
2,2,4-trimethylpentane	3.6	0.70		ug/m3	1	10/16/2019 1:03:00 AM
4-ethyltoluene	ND	0.74		ug/m3	1	10/16/2019 1:03:00 AM
Acetone	43	14		ug/m3	20	10/16/2019 4:00:00 AM
Allyl chloride	ND	0.47		ug/m3	1	10/16/2019 1:03:00 AM
Benzene	15	9.6		ug/m3	20	10/16/2019 4:00:00 AM
Benzyl chloride	ND	0.86		ug/m3	1	10/16/2019 1:03:00 AM
Bromodichloromethane	0.80	1.0	J	ug/m3	1	10/16/2019 1:03:00 AM
Bromoform	ND	1.6		ug/m3	1	10/16/2019 1:03:00 AM
Bromomethane	ND	0.58		ug/m3	1	10/16/2019 1:03:00 AM
Carbon disulfide	15	9.3		ug/m3	20	10/16/2019 4:00:00 AM
Carbon tetrachloride	ND	0.94		ug/m3	1	10/16/2019 1:03:00 AM
Chlorobenzene	ND	0.69		ug/m3	1	10/16/2019 1:03:00 AM
Chloroethane	ND	0.40		ug/m3	1	10/16/2019 1:03:00 AM
Chloroform	36	15		ug/m3	20	10/16/2019 4:00:00 AM
Chloromethane	0.76	0.31		ug/m3	1	10/16/2019 1:03:00 AM
cis-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:03:00 AM
cis-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 1:03:00 AM
Cyclohexane	19	10		ug/m3	20	10/16/2019 4:00:00 AM
Dibromochloromethane	ND	1.3		ug/m3	1	10/16/2019 1:03:00 AM
Ethyl acetate	1.0	0.90		ug/m3	1	10/16/2019 1:03:00 AM
Ethylbenzene	3.2	0.65		ug/m3	1	10/16/2019 1:03:00 AM
Freon 11	1.5	0.84		ug/m3	1	10/16/2019 1:03:00 AM
Freon 113	ND	1.1		ug/m3	1	10/16/2019 1:03:00 AM
Freon 114	ND	1.0		ug/m3	1	10/16/2019 1:03:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-002A

Client Sample ID: 2107-SVW-2
Tag Number: 138, 00839
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T						Analyst: RJP
Freon 12	2.5	0.74		ug/m3	1	10/16/2019 1:03:00 AM
Heptane	11	12	J	ug/m3	20	10/16/2019 4:00:00 AM
Hexachloro-1,3-butadiene	ND	1.6		ug/m3	1	10/16/2019 1:03:00 AM
Hexane	19	11		ug/m3	20	10/16/2019 4:00:00 AM
Isopropyl alcohol	4.0	0.37		ug/m3	1	10/16/2019 1:03:00 AM
m&p-Xylene	5.0	1.3		ug/m3	1	10/16/2019 1:03:00 AM
Methyl Butyl Ketone	ND	1.2		ug/m3	1	10/16/2019 1:03:00 AM
Methyl Ethyl Ketone	8.8	18	J	ug/m3	20	10/16/2019 4:00:00 AM
Methyl Isobutyl Ketone	ND	1.2		ug/m3	1	10/16/2019 1:03:00 AM
Methyl tert-butyl ether	ND	0.54		ug/m3	1	10/16/2019 1:03:00 AM
Methylene chloride	0.59	0.52		ug/m3	1	10/16/2019 1:03:00 AM
Naphthalene	1.3	0.79		ug/m3	1	10/16/2019 1:03:00 AM
o-Xylene	1.7	0.65		ug/m3	1	10/16/2019 1:03:00 AM
Propylene	ND	0.26		ug/m3	1	10/16/2019 1:03:00 AM
Styrene	ND	0.64		ug/m3	1	10/16/2019 1:03:00 AM
Tetrachloroethylene	ND	1.0		ug/m3	1	10/16/2019 1:03:00 AM
Tetrahydrofuran	ND	0.44		ug/m3	1	10/16/2019 1:03:00 AM
Toluene	12	11		ug/m3	20	10/16/2019 4:00:00 AM
trans-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:03:00 AM
trans-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 1:03:00 AM
Trichloroethene	1.3	0.81		ug/m3	1	10/16/2019 1:03:00 AM
Vinyl acetate	ND	0.53		ug/m3	1	10/16/2019 1:03:00 AM
Vinyl Bromide	ND	0.66		ug/m3	1	10/16/2019 1:03:00 AM
Vinyl chloride	ND	0.38		ug/m3	1	10/16/2019 1:03:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-003A

Client Sample ID: 2107-SVW-3
Tag Number: 563, 00773
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	1.2	0.82		ug/m3	1	10/16/2019 1:48:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0		ug/m3	1	10/16/2019 1:48:00 AM
1,1,2-Trichloroethane	ND	0.82		ug/m3	1	10/16/2019 1:48:00 AM
1,1-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 1:48:00 AM
1,1-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:48:00 AM
1,2,4-Trichlorobenzene	ND	1.1		ug/m3	1	10/16/2019 1:48:00 AM
1,2,4-Trimethylbenzene	2.5	0.74		ug/m3	1	10/16/2019 1:48:00 AM
1,2-Dibromoethane	ND	1.2		ug/m3	1	10/16/2019 1:48:00 AM
1,2-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:48:00 AM
1,2-Dichloroethane	ND	0.61		ug/m3	1	10/16/2019 1:48:00 AM
1,2-Dichloropropane	ND	0.69		ug/m3	1	10/16/2019 1:48:00 AM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	10/16/2019 1:48:00 AM
1,3-butadiene	ND	0.33		ug/m3	1	10/16/2019 1:48:00 AM
1,3-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:48:00 AM
1,4-Dichlorobenzene	ND	0.90		ug/m3	1	10/16/2019 1:48:00 AM
1,4-Dioxane	ND	1.1		ug/m3	1	10/16/2019 1:48:00 AM
2,2,4-trimethylpentane	4.3	0.70		ug/m3	1	10/16/2019 1:48:00 AM
4-ethyltoluene	ND	0.74		ug/m3	1	10/16/2019 1:48:00 AM
Acetone	20	14		ug/m3	20	10/16/2019 4:44:00 AM
Allyl chloride	ND	0.47		ug/m3	1	10/16/2019 1:48:00 AM
Benzene	3.2	0.48		ug/m3	1	10/16/2019 1:48:00 AM
Benzyl chloride	ND	0.86		ug/m3	1	10/16/2019 1:48:00 AM
Bromodichloromethane	3.7	1.0		ug/m3	1	10/16/2019 1:48:00 AM
Bromoform	ND	1.6		ug/m3	1	10/16/2019 1:48:00 AM
Bromomethane	ND	0.58		ug/m3	1	10/16/2019 1:48:00 AM
Carbon disulfide	7.5	9.3	J	ug/m3	20	10/16/2019 4:44:00 AM
Carbon tetrachloride	ND	0.94		ug/m3	1	10/16/2019 1:48:00 AM
Chlorobenzene	ND	0.69		ug/m3	1	10/16/2019 1:48:00 AM
Chloroethane	ND	0.40		ug/m3	1	10/16/2019 1:48:00 AM
Chloroform	120	15		ug/m3	20	10/16/2019 4:44:00 AM
Chloromethane	ND	0.31		ug/m3	1	10/16/2019 1:48:00 AM
cis-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:48:00 AM
cis-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 1:48:00 AM
Cyclohexane	11	10		ug/m3	20	10/16/2019 4:44:00 AM
Dibromochloromethane	ND	1.3		ug/m3	1	10/16/2019 1:48:00 AM
Ethyl acetate	0.76	0.90	J	ug/m3	1	10/16/2019 1:48:00 AM
Ethylbenzene	1.5	0.65		ug/m3	1	10/16/2019 1:48:00 AM
Freon 11	2.6	0.84		ug/m3	1	10/16/2019 1:48:00 AM
Freon 113	ND	1.1		ug/m3	1	10/16/2019 1:48:00 AM
Freon 114	ND	1.0		ug/m3	1	10/16/2019 1:48:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-003A

Client Sample ID: 2107-SVW-3
Tag Number: 563, 00773
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
Freon 12	2.7	0.74		ug/m3	1	10/16/2019 1:48:00 AM
Heptane	11	0.61		ug/m3	1	10/16/2019 1:48:00 AM
Hexachloro-1,3-butadiene	ND	1.6		ug/m3	1	10/16/2019 1:48:00 AM
Hexane	8.5	11	J	ug/m3	20	10/16/2019 4:44:00 AM
Isopropyl alcohol	4.2	0.37		ug/m3	1	10/16/2019 1:48:00 AM
m&p-Xylene	3.9	1.3		ug/m3	1	10/16/2019 1:48:00 AM
Methyl Butyl Ketone	ND	1.2		ug/m3	1	10/16/2019 1:48:00 AM
Methyl Ethyl Ketone	5.7	0.88		ug/m3	1	10/16/2019 1:48:00 AM
Methyl Isobutyl Ketone	ND	1.2		ug/m3	1	10/16/2019 1:48:00 AM
Methyl tert-butyl ether	ND	0.54		ug/m3	1	10/16/2019 1:48:00 AM
Methylene chloride	0.42	0.52	J	ug/m3	1	10/16/2019 1:48:00 AM
Naphthalene	1.0	0.79		ug/m3	1	10/16/2019 1:48:00 AM
o-Xylene	1.4	0.65		ug/m3	1	10/16/2019 1:48:00 AM
Propylene	ND	0.26		ug/m3	1	10/16/2019 1:48:00 AM
Styrene	ND	0.64		ug/m3	1	10/16/2019 1:48:00 AM
Tetrachloroethylene	0.95	1.0	J	ug/m3	1	10/16/2019 1:48:00 AM
Tetrahydrofuran	ND	0.44		ug/m3	1	10/16/2019 1:48:00 AM
Toluene	5.2	0.57		ug/m3	1	10/16/2019 1:48:00 AM
trans-1,2-Dichloroethene	ND	0.59		ug/m3	1	10/16/2019 1:48:00 AM
trans-1,3-Dichloropropene	ND	0.68		ug/m3	1	10/16/2019 1:48:00 AM
Trichloroethene	ND	0.81		ug/m3	1	10/16/2019 1:48:00 AM
Vinyl acetate	ND	0.53		ug/m3	1	10/16/2019 1:48:00 AM
Vinyl Bromide	ND	0.66		ug/m3	1	10/16/2019 1:48:00 AM
Vinyl chloride	ND	0.38		ug/m3	1	10/16/2019 1:48:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-001A

Client Sample ID: 2107-SVW-1
Tag Number: 1173, 00526
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	0			"Hg		10/15/2019
Lab Vacuum Out	-30			"Hg		10/15/2019
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,1,2,2-Tetrachloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,1,2-Trichloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,1-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,1-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2,4-Trichlorobenzene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2,4-Trimethylbenzene	0.77	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2-Dibromoethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,2-Dichloropropane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,3,5-Trimethylbenzene	0.54	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,3-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,4-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
1,4-Dioxane	ND	0.30		ppbV	1	10/16/2019 12:18:00 AM
2,2,4-trimethylpentane	0.41	0.15		ppbV	1	10/16/2019 12:18:00 AM
4-ethyltoluene	0.30	0.15		ppbV	1	10/16/2019 12:18:00 AM
Acetone	22	6.0		ppbV	20	10/16/2019 3:17:00 AM
Allyl chloride	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Benzene	2.2	0.15		ppbV	1	10/16/2019 12:18:00 AM
Benzyl chloride	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Bromodichloromethane	0.38	0.15		ppbV	1	10/16/2019 12:18:00 AM
Bromoform	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Bromomethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Carbon disulfide	10	3.0		ppbV	20	10/16/2019 3:17:00 AM
Carbon tetrachloride	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Chlorobenzene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Chloroethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Chloroform	10	3.0		ppbV	20	10/16/2019 3:17:00 AM
Chloromethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
cis-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
cis-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Cyclohexane	3.2	3.0		ppbV	20	10/16/2019 3:17:00 AM
Dibromochloromethane	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Ethyl acetate	ND	0.25		ppbV	1	10/16/2019 12:18:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-001A

Client Sample ID: 2107-SVW-1
Tag Number: 1173, 00526
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
Ethylbenzene	1.6	0.15		ppbV	1	10/16/2019 12:18:00 AM
Freon 11	0.58	0.15		ppbV	1	10/16/2019 12:18:00 AM
Freon 113	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Freon 114	9.8	3.0		ppbV	20	10/16/2019 3:17:00 AM
Freon 12	1.4	0.15		ppbV	1	10/16/2019 12:18:00 AM
Heptane	5.6	3.0		ppbV	20	10/16/2019 3:17:00 AM
Hexachloro-1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Hexane	4.4	3.0		ppbV	20	10/16/2019 3:17:00 AM
Isopropyl alcohol	2.0	0.15		ppbV	1	10/16/2019 12:18:00 AM
m&p-Xylene	1.5	0.30		ppbV	1	10/16/2019 12:18:00 AM
Methyl Butyl Ketone	ND	0.30		ppbV	1	10/16/2019 12:18:00 AM
Methyl Ethyl Ketone	3.6	6.0	J	ppbV	20	10/16/2019 3:17:00 AM
Methyl Isobutyl Ketone	ND	0.30		ppbV	1	10/16/2019 12:18:00 AM
Methyl tert-butyl ether	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Methylene chloride	0.23	0.15		ppbV	1	10/16/2019 12:18:00 AM
Naphthalene	0.17	0.15		ppbV	1	10/16/2019 12:18:00 AM
o-Xylene	0.61	0.15		ppbV	1	10/16/2019 12:18:00 AM
Propylene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Styrene	0.28	0.15		ppbV	1	10/16/2019 12:18:00 AM
Tetrachloroethylene	0.10	0.15	J	ppbV	1	10/16/2019 12:18:00 AM
Tetrahydrofuran	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Toluene	3.6	3.0		ppbV	20	10/16/2019 3:17:00 AM
trans-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
trans-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Trichloroethene	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Vinyl acetate	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Vinyl Bromide	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Vinyl chloride	ND	0.15		ppbV	1	10/16/2019 12:18:00 AM
Surr: Bromofluorobenzene	117	70-130		%REC	1	10/16/2019 12:18:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-002A

Client Sample ID: 2107-SVW-2
Tag Number: 138, 00839
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		10/15/2019
Lab Vacuum Out	-30			"Hg		10/15/2019
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,1,2,2-Tetrachloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,1,2-Trichloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,1-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,1-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2,4-Trichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2,4-Trimethylbenzene	0.38	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2-Dibromoethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,2-Dichloropropane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,3,5-Trimethylbenzene	0.19	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,3-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,4-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
1,4-Dioxane	ND	0.30		ppbV	1	10/16/2019 1:03:00 AM
2,2,4-trimethylpentane	0.78	0.15		ppbV	1	10/16/2019 1:03:00 AM
4-ethyltoluene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Acetone	18	6.0		ppbV	20	10/16/2019 4:00:00 AM
Allyl chloride	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Benzene	4.8	3.0		ppbV	20	10/16/2019 4:00:00 AM
Benzyl chloride	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Bromodichloromethane	0.12	0.15	J	ppbV	1	10/16/2019 1:03:00 AM
Bromoform	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Bromomethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Carbon disulfide	4.8	3.0		ppbV	20	10/16/2019 4:00:00 AM
Carbon tetrachloride	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Chlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Chloroethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Chloroform	7.4	3.0		ppbV	20	10/16/2019 4:00:00 AM
Chloromethane	0.37	0.15		ppbV	1	10/16/2019 1:03:00 AM
cis-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
cis-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Cyclohexane	5.4	3.0		ppbV	20	10/16/2019 4:00:00 AM
Dibromochloromethane	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Ethyl acetate	0.28	0.25		ppbV	1	10/16/2019 1:03:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-002A

Client Sample ID: 2107-SVW-2
Tag Number: 138, 00839
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
Ethylbenzene	0.73	0.15		ppbV	1	10/16/2019 1:03:00 AM
Freon 11	0.26	0.15		ppbV	1	10/16/2019 1:03:00 AM
Freon 113	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Freon 114	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Freon 12	0.51	0.15		ppbV	1	10/16/2019 1:03:00 AM
Heptane	2.6	3.0	J	ppbV	20	10/16/2019 4:00:00 AM
Hexachloro-1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Hexane	5.4	3.0		ppbV	20	10/16/2019 4:00:00 AM
Isopropyl alcohol	1.6	0.15		ppbV	1	10/16/2019 1:03:00 AM
m&p-Xylene	1.2	0.30		ppbV	1	10/16/2019 1:03:00 AM
Methyl Butyl Ketone	ND	0.30		ppbV	1	10/16/2019 1:03:00 AM
Methyl Ethyl Ketone	3.0	6.0	J	ppbV	20	10/16/2019 4:00:00 AM
Methyl Isobutyl Ketone	ND	0.30		ppbV	1	10/16/2019 1:03:00 AM
Methyl tert-butyl ether	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Methylene chloride	0.17	0.15		ppbV	1	10/16/2019 1:03:00 AM
Naphthalene	0.24	0.15		ppbV	1	10/16/2019 1:03:00 AM
o-Xylene	0.39	0.15		ppbV	1	10/16/2019 1:03:00 AM
Propylene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Styrene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Tetrachloroethylene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Tetrahydrofuran	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Toluene	3.2	3.0		ppbV	20	10/16/2019 4:00:00 AM
trans-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
trans-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Trichloroethene	0.25	0.15		ppbV	1	10/16/2019 1:03:00 AM
Vinyl acetate	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Vinyl Bromide	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Vinyl chloride	ND	0.15		ppbV	1	10/16/2019 1:03:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/16/2019 1:03:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EWI
Lab ID: C1910044-003A

Client Sample ID: 2107-SVW-3
Tag Number: 563, 00773
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-1			"Hg		10/15/2019
Lab Vacuum Out	-30			"Hg		10/15/2019
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
1,1,1-Trichloroethane	0.22	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,1,2,2-Tetrachloroethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,1,2-Trichloroethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,1-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,1-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2,4-Trichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2,4-Trimethylbenzene	0.51	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2-Dibromoethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2-Dichloroethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,2-Dichloropropane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,3,5-Trimethylbenzene	0.24	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,3-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,4-Dichlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
1,4-Dioxane	ND	0.30		ppbV	1	10/16/2019 1:48:00 AM
2,2,4-trimethylpentane	0.92	0.15		ppbV	1	10/16/2019 1:48:00 AM
4-ethyltoluene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Acetone	8.6	6.0		ppbV	20	10/16/2019 4:44:00 AM
Allyl chloride	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Benzene	1.0	0.15		ppbV	1	10/16/2019 1:48:00 AM
Benzyl chloride	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Bromodichloromethane	0.55	0.15		ppbV	1	10/16/2019 1:48:00 AM
Bromoform	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Bromomethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Carbon disulfide	2.4	3.0	J	ppbV	20	10/16/2019 4:44:00 AM
Carbon tetrachloride	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Chlorobenzene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Chloroethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Chloroform	25	3.0		ppbV	20	10/16/2019 4:44:00 AM
Chloromethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
cis-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
cis-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Cyclohexane	3.2	3.0		ppbV	20	10/16/2019 4:44:00 AM
Dibromochloromethane	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Ethyl acetate	0.21	0.25	J	ppbV	1	10/16/2019 1:48:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 16-Oct-19

CLIENT: Environmental Works, Inc.
Lab Order: C1910044
Project: EW1
Lab ID: C1910044-003A

Client Sample ID: 2107-SVW-3
Tag Number: 563, 00773
Collection Date: 10/11/2019
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ NAPHTHALENE & TBA BY METHOD T		TO-15		Analyst: RJP		
Ethylbenzene	0.34	0.15		ppbV	1	10/16/2019 1:48:00 AM
Freon 11	0.46	0.15		ppbV	1	10/16/2019 1:48:00 AM
Freon 113	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Freon 114	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Freon 12	0.54	0.15		ppbV	1	10/16/2019 1:48:00 AM
Heptane	2.7	0.15		ppbV	1	10/16/2019 1:48:00 AM
Hexachloro-1,3-butadiene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Hexane	2.4	3.0	J	ppbV	20	10/16/2019 4:44:00 AM
Isopropyl alcohol	1.7	0.15		ppbV	1	10/16/2019 1:48:00 AM
m&p-Xylene	0.89	0.30		ppbV	1	10/16/2019 1:48:00 AM
Methyl Butyl Ketone	ND	0.30		ppbV	1	10/16/2019 1:48:00 AM
Methyl Ethyl Ketone	2.0	0.30		ppbV	1	10/16/2019 1:48:00 AM
Methyl Isobutyl Ketone	ND	0.30		ppbV	1	10/16/2019 1:48:00 AM
Methyl tert-butyl ether	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Methylene chloride	0.12	0.15	J	ppbV	1	10/16/2019 1:48:00 AM
Naphthalene	0.20	0.15		ppbV	1	10/16/2019 1:48:00 AM
o-Xylene	0.32	0.15		ppbV	1	10/16/2019 1:48:00 AM
Propylene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Styrene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	10/16/2019 1:48:00 AM
Tetrahydrofuran	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Toluene	1.4	0.15		ppbV	1	10/16/2019 1:48:00 AM
trans-1,2-Dichloroethene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
trans-1,3-Dichloropropene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Trichloroethene	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Vinyl acetate	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Vinyl Bromide	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Vinyl chloride	ND	0.15		ppbV	1	10/16/2019 1:48:00 AM
Surr: Bromofluorobenzene	112	70-130		%REC	1	10/16/2019 1:48:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits