CVOC Field Screening Report

Westinghouse Columbia Fuel Fabrication Facility
5801 Bluff Road
Hopkins, South Carolina

Prepared for:
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AECOM	AECOM Technical Services, Inc.
AS	air sparge
BLS	below land surface
BLWM	(SCDHEC) Bureau of Land and Waste Management
BRA	baseline risk assessment
Cascade	Cascade Technical Services, LLC
Color-Tec	AQR Color-Tec® Screening Method
COC	chemicals of concern
CVOC	chlorinated volatile organic compound
DPT	direct push technology
EC	electrical conductivity
ECD	electron capture detector
EPA	(U.S.) Environmental Protection Agency
FID	flame ionization device
FS	feasibility study
HASP	health and safety plan
HPT	hydraulic profiling tool
LLMIP	low-level membrane interface probe
MCL	maximum contaminant level
NPDES	National Pollution Discharge Elimination System

PCE	tetrachloroethene
PID	photoionization device
RI	Remedial Investigation
Rust	Rust Environment & Infrastructure
SAEDACCO	South Atlantic Environmental Drilling and Construction Company
SCDHEC	South Carolina Department of Health and Environmental Control
Shealy	Shealy Environmental Services
Sonic	rotosonic
SU	standard unit
SVE	soil vapor extraction
TCE	trichloroethene
USCS	United Soil Classification System
VCC	voluntary cleanup contract
WCFFF	Westinghouse Columbia Fuel Fabrication Facility
WWTP	wastewater treatment plant
XSD	halogen specific detector

1.0 INTRODUCTION

Numerous environmental investigations have been performed since 1980 at the Westinghouse Columbia Fuel Fabrication Facility (WCFFF) located in Hopkins, South Carolina. The investigations have included assessments of groundwater, surface water, soil, and sediment, and have resulted in the delineation of chemicals of concern (COCs) in these media. A total of 41 permanent monitoring wells exist at the site as a result of these investigations. Reports have been submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) following each assessment.

The WCFFF has routinely sampled groundwater and surface water and reported the results to SCDHEC. The investigations concluded that the industrial wastewater treatment plant (WWTP) area was the source of the elevated fluoride, nitrate and radionuclide concentrations in groundwater. The former oil house (storage area for tetrachloroethene) was suspected of being the source area for the CVOCs in groundwater. Additionally, remedial activities have been performed for groundwater with the operation of an air sparge/soil vapor extraction system. Additional information regarding the AS/SVE system is contained in Section 1.3 of this report. From 1988 through 2010, WCFFF requested that the site be considered for a Groundwater Mixing Zone as set forth in State Regulation R.61-68 through the use of a Consent Agreement prepared by SCDHEC. However, these requests were denied.

In 2013, SCDHEC issued a letter indicating that reports from 2010 through 2012 had been reviewed. The letter indicated that future assessments and remedial actions would be evaluated in accordance with the Environmental Protection Agency (EPA) Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, dated 1988. SCDHEC requested submittal of a comprehensive Remedial Investigation (RI) Report for the WCFFF consistent with the EPA guidance. The letter also requested a Baseline Risk Assessment (BRA). The letter indicated that following approval of the RI and BRA, SCDHEC would require a Feasibility Study (FS) to evaluate potential remedial alternatives. The RI and BRA, prepared by AECOM Technical Services, Inc. (AECOM) were submitted to SCDHEC in December 2013 and February 2014, respectively.

On September 15, 2015, SCDHEC issued a letter following the review of the RI Report. The letter indicated that regulatory oversight of the chlorinated volatile organic compound (CVOC) impact to groundwater will be managed by the State Remediation Section of the Bureau of Land and Waste Management (BLWM) at SCDHEC and that groundwater monitoring and reporting for the wastewater treatment plant (WWTP) area will be managed by the Bureau of Water. In the letter, SCDHEC requested that a work plan be submitted to install three new monitoring wells in specific areas of the CVOC impact. The letter also requested that a second work plan for long-term groundwater monitoring be submitted after the new wells have been installed and sampled. In a follow-up letter dated September 30, 2015, the SCDHEC BLWM recommended that groundwater investigation by field screening be performed prior to installing new monitoring wells to allow more appropriate well locations and screen intervals.

After the September 30, 2015 letter, SCDHEC indicated to WCFFF that sites managed under the BLWM at SCDHEC were going to be required to enter a Voluntary Cleanup Contract (VCC). Therefore, WCFFF

and SCDHEC began the process of developing a VCC for the CVOC impact in late 2015. WCFFF entered into VCC-16-4948-RP with SCDHEC on August 23, 2016.

Section 3 of the VCC under Response Actions indicates that a work plan shall be submitted that outlines the following tasks:

A. Field Screening for CVOCs in groundwater;

B. Assessment report of field screening results and proposed permanent monitoring wells, based on the field screening;

C. Permanent monitoring well installations and sampling following field screening;

D. Submittal of an investigation report of the field screening and monitoring well installations/sampling;

E. Submittal of a long-term groundwater monitoring plan for CVOCs after submittal of the investigation report; and

F. If required by SCDHEC, completion of a Feasibility Study to evaluate remedial alternatives for CVOCs in groundwater.

AECOM submitted the Work Plan to SCDHEC on October 4, 2016. This report documents the assessment work conducted to screen groundwater for the presence of CVOCs and proposes locations for a permanent monitoring well network to monitor the CVOCs in groundwater.

1.1 Site Background

1.1.1 Site Description

The site is located at 5801 Bluff Road (SC Hwy 48) in a rural portion of Richland County near Hopkins, South Carolina (**Figure 1**) and consists of approximately 1,200 acres. The plant building and the WWTP are situated on the northern portion of the property. The plant building is located approximately 2,700 feet southwest of Bluff Road.

The WWTP is located near the southwest corner of the plant building (**Figure 2**). Process water is temporarily stored, sampled, and treated (if necessary) in the lagoons at the WWTP. One process water waste stream utilizes the East Lagoon. A second waste stream utilizes the West 2 and West 1 lagoons. Both waste streams then are sent to either the North or South lagoons. Sanitary wastewater is treated in the sanitary lagoon followed by chlorination and de-chlorination. All treated wastewater is then discharged to the Congaree River at a location approximately three miles southwest of the WCFFF. The wastewater is discharged through a diffuser at the base of the river channel.

A small man-made pond, which existed prior to construction of the WCFFF, is located approximately 500 feet southwest of the WWTP. A small spring discharges into the northern edge of the pond. No surface water outflow occurs from the pond.

Sunset Lake is located immediately west and south of the pond approximately 900 feet southwest of the WWTP (**Figures 1 and 2**). Sunset Lake is located within a natural oxbow and consists of upper and lower sections. Mill Creek flows through Sunset Lake. A manmade dam approximately 1,700 feet south of the WWTP backs up water in Mill Creek, creating Lower Sunset Lake. A second manmade dam cuts across Mill Creek approximately 1,000 feet southwest of the WWTP, creating Upper Sunset Lake.

The southern portion of the property, including the pond, Mill Creek, and both portions of Sunset Lake are located within the floodplain of Mill Creek and the Congaree River. The plant/WWTP area and the floodplain are separated by a bluff, approximately 20 feet high, located immediately south of the WWTP.

1.1.2 Site History

The WCFFF was constructed in 1969. Prior to construction the site consisted of farmland, woodlands, and floodplain. A drawing from 1968 indicates that the main plant building and the WWTP lagoons were part of the original construction. The main activity has been the assembly of fuel rods for the nuclear power industry.

1.2 Previous Investigations for CVOCs

Previous investigations for CVOCs were performed from 1989 to 1995 and were described in the Remedial Investigation Report (AECOM, 2013). Additionally, the WCFFF has performed groundwater monitoring for CVOCs at select monitoring wells since 1998. The results of these investigations were presented in the following reports:

- USEPA Screening Site Inspection (SSI) Report (EPA,1989);
- Confirmatory Ground-Water Investigation Report (SEC Donohue, 1992);
- Chlorinated Solvent Assessment Report (Rust, 1994);
- Conceptual Design Report (Rust, 1995);
- Pilot Test Report (Rust, 1996); and
- Monitoring reports from WCFFF.

1.3 Previous Remediation Activities for CVOCs

Previous remediation activities for CVOCs occurred from 1998 to 2011 and were described in the RI Report (AECOM, 2013). A summary of the remediation activities are listed below:

- An AS/SVE system operated from 1998 to 2011;
- Remediation monitoring during operation of AS and SVE;
- Response to SCDHEC Comments and Five-Year AS/SVE Performance Monitoring Evaluation;
- Remediation Performance Evaluation and Application for Groundwater Mixing Zone; and

- Response to August 30, 2010 Letter concerning review of the Remediation Performance Evaluation and Application for Groundwater Mixing Zone.

The AS/SVE system consisted of eleven AS well and 11 SVE wells in two transects. The AS wells were installed on top of the confining unit and SVE wells installed above the water table. AS/SVE transects are displayed on **Figures 7, 8 and 9**.

1.4 Site Investigation Objective

Based on the SCDHEC requests and the results of previous investigations and remedial efforts, the objectives of the field screening investigations for CVOCs are the following:

- Further delineation of the horizontal and vertical extent of CVOCs in the water table aquifer using field screening methods; and
- Propose a permanent monitoring well network capable of long term monitoring of the CVOC plume.

2.0 SITE INVESTIGATION ACTIVITIES

This section discusses the rationale and methods used during the additional groundwater investigation.

2.1 Field Investigation Activities

Field investigation activities performed during this investigation included the following:

- Preparation of a Health and Safety Plan (HASP);
- Site Reconnaissance;
- Installation of nine field screening borings;
- Meeting with SCDHEC;
- Preparation of a Work Plan Addendum
- Installation of eleven additional field screening borings

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2.1.1 Health and Safety Plan

AECOM prepared a site-specific HASP for the field investigation. The HASP included sections on site-specific hazards, potential chemicals of concern, physical hazards, communications, and emergency procedures. During the preparation of the HASP, AECOM consulted with WCFFF staff to ensure that safety and emergency procedures at the WCFFF were addressed in the HASP. A Task Hazard Analysis was developed for the field activities that were not covered by the HASP.

2.1.2 Site Reconnaissance

Prior to initiating the boring installations, AECOM visited the site to stake out, observe the accessibility of the proposed boring locations (i.e., potential obstacles to drilling such as wooded areas, steep slopes, wet areas, underground utilities, above-ground cables, buildings or other above-ground structures) and have the underground utilities marked by Reed Tech, Inc. During the site reconnaissance, the locations of borings B-4, B-6 and B-8 were adjusted slightly due to field conditions. Boring B-4 was moved approximately 100 feet southeast due to the proposed location being within an on-site cemetery, boring B-6 was moved approximately 100 feet northeast due to the proposed location being on the steep slope of the Mill Creek escarpment and B-9 was moved approximately 100 feet east due to obstructions not allowing the drill rig to access this area.

2.1.3 Sonic Drilling Assessment

From December 13 through December 19, 2016, AECOM and South Atlantic Environmental Drilling and Construction Company (SAEDACCO) installed nine borings (B-1 through B-9) at the WCFFF site. Previous hydrogeologic studies have determined that the water table aquifer is differentiated into upper and lower units underlain by a significant confining unit (AECOM, 2013).

During screening boring advancement, soil cores were collected continuously for soil classification, to assess the depth of the confining unit, and to assess groundwater sampling intervals. Soil cores were collected using a 4 inch diameter, stainless steel core barrel utilized by a rotosonic (sonic) drill rig. Soils were classified and described on boring logs using the Unified Soil Classification System (USCS). Copies of the boring logs are included in **Appendix A**.

A minimum of two groundwater samples per screening boring were collected for field screening and fix-based laboratory confirmatory analyses. A submersible pump with dedicated, disposable tubing was used to purge the groundwater from the sonic borehole until field parameters (i.e. temperature, pH, specific conductivity) stabilized. Field parameters were considered to be stable when pH remained within 0.1 Standard Unit (SU), and temperature and specific conductance remained within 10%.

Groundwater samples collected from the sonic borings were screened on-site using the AQR Color-Tec® (Color-Tec) screening method. The Color-Tec screening method utilizes a tetrachloroethene (PCE) colorimetric gas detector tube to estimate the concentration of total chlorinated ethenes. The groundwater samples were heated to drive CVOCs into the headspace of the sample vial. Air from the headspace of the sample was then drawn into the detector tube using a hand pump. This method can detect the presence of PCE and /or related degradation products. However, the method cannot quantify the concentration for a specific compound.

Confirmatory samples were transported to Shealy Environmental Services, Inc. (Shealy) for VOC analysis using EPA Method 8260B. Copies of the analytical results are located in **Appendix B**. **Table 2** is a summary of detected chlorinated compounds.

2.1.4 Meeting with SCDHEC

After reviewing the groundwater analytical results from these borings, AECOM and WCFFF personnel requested a meeting with SCDHEC to discuss the results and the path forward. This meeting occurred on February 22, 2017 at the SCDHEC office located at 2600 Bull Street. During this meeting, AECOM, WCFFF and SCDHEC personnel agreed that additional assessment was the best path forward and a deadline for a Work Plan Addendum was set for April 3, 2017.

2.1.5 Preparation of a Work Plan Addendum

Prior to drafting the Work Plan Addendum, AECOM and Westinghouse employees conducted site reconnaissance to assess whether or not intended boring locations could be accessed be drilling equipment. AECOM submitted the Work Plan Addendum to SCDHEC on April 3, 2017. This addendum called for the installation of eleven additional borings screened using the high resolution site characterization technology known as low-level membrane interface probe (LLMIP), electrical conductivity (EC), and hydraulic profiling tool (HPT) equipment to delineate CVOCs and hydraulic characteristics at various depths within each boring.

The LLMIP is a direct push tool that can measure for the presence of CVOCs in soil/groundwater.

The LLMIP tool includes a probe with heating element and a portal covered by a semi-permeable polymer membrane. The semi-permeable membrane serves as an interface to a detector system at the surface.

2.1.6 LLMIP Assessment

From October 9 through October 12, 2017, AECOM and Cascade Technical Services, LLC (Cascade) installed eleven LLMIP borings (B-10 through B-20) at the WCFFF site. Due to site conditions, the weight of the LLMIP equipment and this equipment being housed within a box truck, LLMIP was unable to be used for borings B-18 through B-20. A track mounted Direct Push Technology (DPT) drill rig was used to install borings B-18 through B-20. The track mounted DPT rig also pushed the tooling of the LLMIP for borings B-10 through B-17.

The LLMIP tool was advanced in one-foot intervals using the DPT rig, allowing the heating element time to "heat up" the interval in which it is passing. As the subsurface is heated, CVOCs that may be present diffuse across the polymer membrane and partition into a stream of an inert carrier gas being circulated through the probe. The carrier gas is routed to the detector system at land surface through a separate cable, also attached to the probe rod. The detector system consists of three devices used in tandem to measure for the presence of CVOCs [Flame ionization detector (FID), photoionization detector (PID), and halogen specific detector (XSD)]. Results of the screening were viewed real time in the field and recorded graphically.

The HPT tool was used for hydrostratigraphic screening to determine hydraulic conductivity of the water table aquifer. The HPT probe continually injects small amounts of water and uses pressure response measurements to provide real time profiles of soil hydraulic properties. A low pressure response indicates a zone of high hydraulic conductivity such as a sandy zone where contaminant migration may be occurring. The EC probe provides soil classification by measuring the soil conductivity and resistivity. In general, silts and clays exhibit higher electrical conductivity readings than sands and gravels.

AECOM made the following observations based on the LLMIP logs:

- Elevated vadose zone organic vapors were detected in boring B-10 (adjacent to the southwestern corner of West Lagoon 2) with the greatest relative vapor concentrations being detected between four and eight feet below land surface (BLS) based on PID/FID readings. Elevated organic vapors were also detected in boring B-13 (five to nine feet BLS) near the water table (estimated to be approximately 10.5 feet BLS) with the highest relative vapor concentrations located between six and eight feet BLS.
- A low conductivity unit was observed above the confining unit (depth ranged from 30 to 41 feet BLS). In some cases, there was a complete separation of this unit from the confining unit and in others there was minor increase in conductivity prior to probe refusal (interpreted as interception of the confining unit). This lower conductivity unit above the confining unit likely influences contaminant migration at the WCFFF site.

- Elevated CVOC concentrations were detected by the LLMIP in borings B-10, B-13, and B-14 based upon elevated Electron Capture Detector (ECD) and/or XSD readings.

LLMIP logs are located in **Appendix C**.

Based upon elevated ECD and/or XSD readings, confirmatory groundwater samples were collected from boring B-11, B-13 and B-14 using the DPT rig. Groundwater samples were also collected from borings B-18 through B-20. The DPT groundwater sampling tools will consisted of a two inch outside diameter stainless steel drive rod with a four foot long, 1 ¼ inch diameter inner retractable screen. Once the sampling device is driven to its desired depth, the outer drive casing was retracted four feet thereby exposing the inner screen. A peristaltic pump with dedicated tubing or dedicated tubing with a check valve was used to obtain the groundwater sample.

2.2 Groundwater Sampling

As part of the renewal process for WCFFF's National Pollution Discharge Elimination System (NPDES) permit, SCDHEC required WCFFF to collect groundwater samples from the NDPES permit's designated permanent monitoring well network. WCFFF contracted Shealy to collect these groundwater samples. Shealy and WCFFF personnel collected groundwater samples from monitoring wells RW-2R, W-7A, W-10, W-13R, W-15, W-16, W-18, W-22, W-24, W-26, W-29, W-30, W-32, W-33, W-39, W-41R, W-43, W-44, W-47 and W-48 on October 12-13, 2017.

Prior to obtaining the groundwater samples, Shealy personnel gauged the depth to groundwater in each monitoring well that was sampled during the October 2017 sampling event. Water table measurements from the October 2017 sampling event are contained in **Table 1**. **Figures 3 and 4** are potentiometric surface maps of the shallow and intermediate water table aquifer based upon calculated groundwater elevations from the October 2017 sampling event.

2.3 Groundwater Analytical Results

Detected chlorinated compound analytical results from the December 2016 groundwater screening, the October 2017 groundwater screening and the October 2017 groundwater sampling event are displayed in **Table 2**. The main two chlorinated compounds that were detected during this investigation were primarily PCE and, to a lesser extent, trichloroethene (TCE). Additional daughter products of PCE (i.e. cis-1,2 Dichloroethene) were detected in groundwater at the WCFFF site at concentrations that did not exceed their maximum contaminant level (MCL) with the exception of vinyl chloride in boring B-8 at a depth of 44 to 48 feet BLS. Vinyl chloride was detected in groundwater from boring B-8 from a screened interval of 44 to 48 feet BLS at a concentration of 2.4 ug/l (versus an MCL of 2 ug/l).

Analysis of the groundwater analytical results indicates that there appears to be two separate chlorinated compound groundwater plumes at the WCFFF site. The first plume appears to emanate from West Lagoon 2 based upon the highest chlorinated compound concentrations being located near and downgradient of West Lagoon 2. Results from the 1993 hydropunch groundwater investigation by Rust

Environment and Infrastructure (Rust) also indicated the highest total VOC concentrations were in the vicinity of and the plume appeared to emanate from West Lagoon 2 (Rust, 1994). The liner of West Lagoon 2 was replaced in December 2008. Groundwater elevations in monitoring wells near West Lagoon 2 are similar to groundwater elevations in nearby monitoring wells and therefore do not indicate that liquids from West Lagoon 2 are currently leaking into the subsurface.

Elevated PCE concentrations in this plume extend from the shallow water table to the deeper, intermediate water table. Although PCE concentrations in the plume are elevated in the shallow and intermediate water table, elevated concentrations of the dechlorination daughter product TCE is only seen in the intermediate water table.

The second chlorinated compound plume is located in the southern portion of the developed property at the WCFFF site near several out buildings and upgradient of the man-made pond. Elevated PCE concentrations within this plume appear to be contained within the shallow water table aquifer only. The source area(s) for this plume is unknown as there are no known processes in this area that currently use PCE or used PCE in the past. PCE concentrations in this plume are an order of magnitude lower than the PCE concentrations in the plume emanating from West Lagoon 2 and do not appear to point to any particular area of the WCFFF site.

PCE and TCE in groundwater from the two screening events and the groundwater sampling event are displayed on **Figures 5 and 6**; respectively. **Figures 7 and 8** are PCE plume maps for the shallow and intermediate water table aquifer; respectively. **Figure 9** depicts the TCE plume in the intermediate water table aquifer.

3.0 PROPOSED MONITORING WELLS

AECOM proposes to install five shallow and five intermediate water table monitoring wells. Proposed monitoring well locations are displayed on **Figures 7, 8, and 9**. Where applicable, proposed shallow and intermediate wells were paired together or were paired with an existing monitoring well.

Shallow water table wells are proposed to be screened at the top of the water table with a ten feet screened interval with the exception of the proposed shallow well located near borehole B-18. The depth to the confining unit in this location is approximately 18 feet BLS. Because borehole B-18 was installed using DPT which did not generate any soil cuttings, the depth to the confining unit will be confirmed during the installation of the intermediate well at this location. Should the depth to the confining unit be greater than 18 feet and allow for a separation of the bottom of the shallow well screen and the top of the intermediate well screen of at least five feet, then the shallow well will be installed with the standard shallow well screened interval of 10 feet.

Intermediate water table wells are proposed to be installed at the top of the confining unit with a 5 feet screened interval.

4.0 LONG TERM GROUNDWATER MONITORING

AECOM and WCFFF propose to use eighteen existing monitoring wells and the ten proposed wells for long-term monitoring of the CVOC plume. Below are the wells proposed for long-term monitoring, the rationale for the use of the well for monitoring purposes, the proposed analysis, and the proposed frequency of monitoring for each well.

Well	Screened Interval	Sampling Rationale	Analysis	Frequency
W-4	Shallow	Downgradient of the CVOC Plume	VOCs 8260B	Annual
W-13R	Shallow	Within the CVOC plume	VOCs 8260B	Annual
W-14	Shallow	Within the CVOC plume	VOCs 8260B	Annual
W-15	Shallow	Within the CVOC plume	VOCs 8260B	Annual
W-16	Shallow	Within the CVOC plume	VOCs 8260B	Annual
W-17	Intermediate	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-23R	Shallow	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-27	Shallow	Downgradient of the CVOC Plume	VOCs 8260B	Annual
W-33	Intermediate	Within the CVOC plume	VOCs 8260B	Annual
W-39	Intermediate	Within the CVOC plume	VOCs 8260B	Annual
W-41R	Shallow	Within the CVOC plume	VOCs 8260B	Annual
W-42	Shallow	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-43	Shallow	Upgradient of the CVOC Plume	VOCs 8260B	Biannual
W-44	Intermediate	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-46	Shallow	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-47	Intermediate	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
W-48	Intermediate	Within the CVOC plume	VOCs 8260B	Annual
RW-R2	Intermediate	Within the CVOC plume	VOCs 8260B	Annual
New	Shallow	Within CVOC plume	VOCs 8260B	Annual
New	Shallow	Upgradient of the CVOC Plume	VOCs 8260B	Biannual
New	Shallow	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual
New	Shallow	Downgradient of the CVOC Plume	VOCs 8260B	Annual
New	Intermediate	Within CVOC plume	VOCs 8260B	Annual
New	Intermediate	Upgradient of the CVOC Plume	VOCs 8260B	Biannual
New	Intermediate	Sidegradient of the CVOC Plume	VOCs 8260B	Biannual

In general, wells that are upgradient and sidegradient of the CVOC plumes are proposed to be sampled for CVOCs every other year (biannual) and wells within the plume and downgradient are proposed to be

sampled annually. Should one or more of the wells that are sampled biannually contain CVOCs at a concentration that exceeds an MCL, the sampling frequency for that well(s) will be changed to an annual frequency. Because the proposed new wells have not been designated numerically, the rationale in the table above applies to each new well in the given category (i.e. updgradient, sidegradient).

If additional parameters and/or frequency are required to complete a feasibility study, those parameters and frequency will be proposed in the feasibility study plan.

5.0 REFERENCES

AECOM, 2013, Remedial Investigation Report, Westinghouse Columbia Fuel Fabrication Facility, 5801 Bluff Road, Hopkins, South Carolina: Project Number 60302740, December 31, 2013.

AECOM, 2014, Preliminary Baseline Risk Assessment, Westinghouse Columbia Fuel Fabrication Facility, 5801 Bluff Road, Hopkins, South Carolina: Project Number 60302740, February 7, 2014.

Rust Environment & Infrastructure (Rust), 1994, Chlorinated Solvent Assessment Report, Westinghouse Commercial Fuel Division, Columbia, South Carolina: Project Number 84820.200, May 17, 1994.

Rust Environment & Infrastructure (Rust), 1995, Conceptual Design Report, Westinghouse Commercial Fuel Division, Columbia, South Carolina: Project Number 33143.500, September 8, 1995.

Rust Environment & Infrastructure (Rust), 1996, Pilot Test Report, Westinghouse Electric Corporation, Commercial Fuel Division, Columbia, South Carolina: Project Number 34976, October 1996.

SCDHEC, 2016, Voluntary Cleanup Contract 16-4948-RP in the matter of Westinghouse Electric Columbia Plant Site, Richland County and Westinghouse Electric Company LLC.

SEC Donohue, 1992, Confirmatory Ground-Water Investigation Report, Westinghouse Electric Corporation, Commercial Nuclear Fuel Division, Columbia, South Carolina: Report No. CE014.00, October 15, 1992.

U.S. Environmental Protection Agency (EPA), 1989, Westinghouse Screening Site Inspection Final Report: ESD Project No. 89-300, July 25, 1989.

TABLES

Table 1
Westinghouse Columbia Fuel Fabrication Facility
Summary of Groundwater Elevation Data

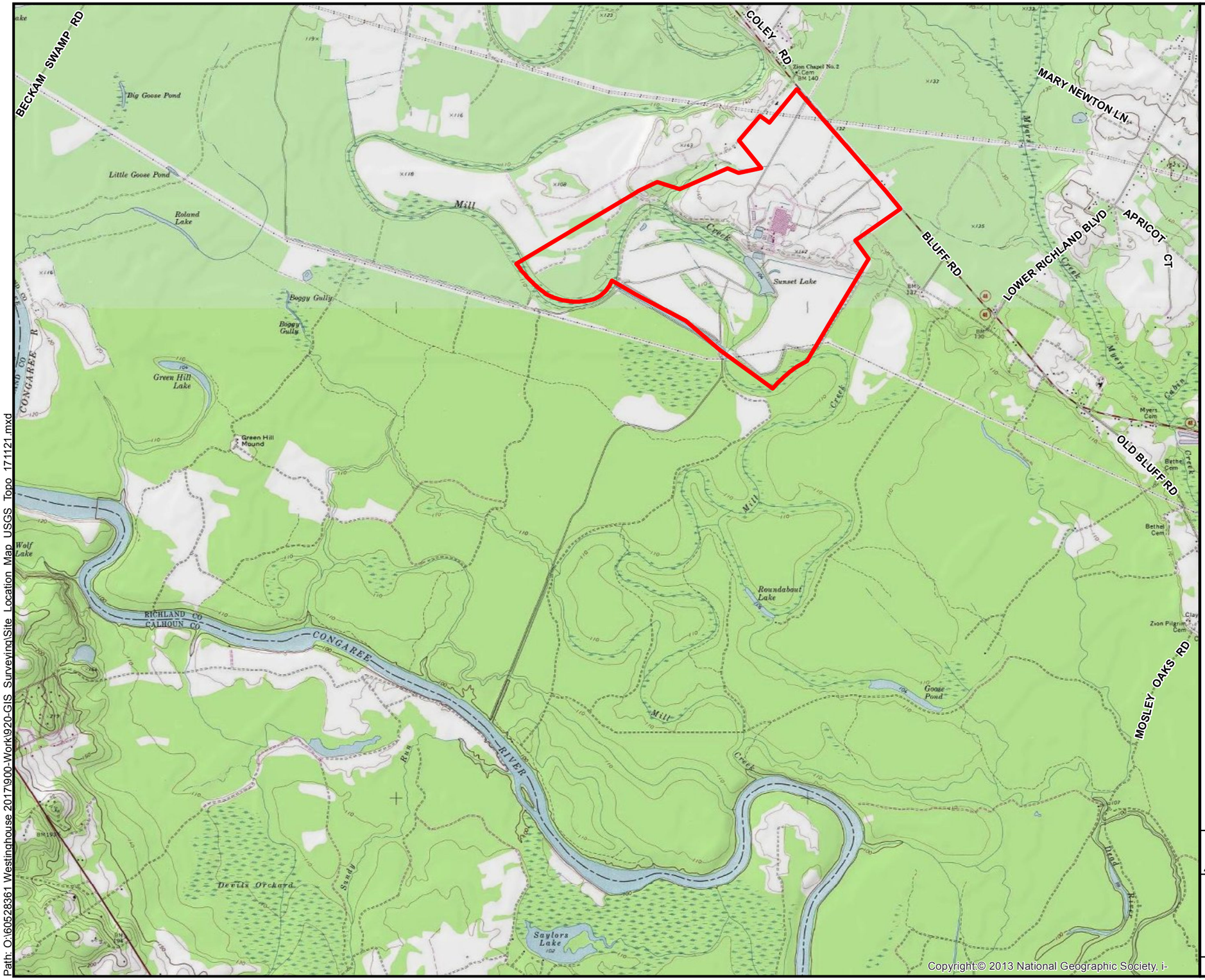
Well Number	Date Measured	Screen Interval (ft bgs)	Top of Casing Elevation (ft NAVD-88)	Depth to Water (ft btoc)	Groundwater Elevation (ft NAVD-88)
W-7A	10/12/17	13.0-18.0	135.01	12.39	122.62
W-10	10/12/17	18.5-23.5	136.77	16.25	120.52
W-13R	10/12/17	15.5-18.5	135.89	12.83	123.06
W-15	10/13/17	13.5-18.5	127.85	12.90	114.95
W-16	10/13/17	15.5-18.5	124.87	3.94	120.93
W-18R	10/12/17	12.5-17.5	136.99	12.23	124.76
W-22	10/12/17	13.4-17.8	136.48	11.48	125.00
W-24	10/13/17	10.1-15.1	141.84	11.25	130.59
W-26	10/13/17	25.5-30.5	141.98	26.25	115.73
W-29	10/12/17	10.0-15.1	138.50	11.83	126.67
W-30	10/12/17	10.2-15.2	138.76	12.25	126.51
W-32	10/12/17	17.5-22.5	140.46	19.65	120.81
W-33	10/12/17	15.1-20.7	139.10	15.92	123.18
W-39	10/13/17	12.0-22.0	141.10	16.23	124.87
W-41R	10/12/17	14.0-24.0	133.66	16.08	117.58
W-43	10/13/17	10.5-20.5	141.22	15.46	125.76
W-44	10/12/17	16.0-26.0	134.53	18.53	116.00
W-47	10/13/17	34.3-44.8	141.81	26.95	114.86
W-48	10/13/17	30.7-41.3	142.36	27.31	115.05
RW-2R	10/12/17	19.0-29.2	139.69	18.66	121.03

Notes:
ft bgs = feet below ground surface
ft btoc = feet below top of casing
Elevations are in feet above mean sea level based on the North American Vertical Datum of 1988 (NAVD-88)
ND = not detected
NM = not measured
N/A = not applicable

Table 2
Westinghouse Columbia Fuel Fabrication Facility
Summary of Detected Chlorinated Compounds

Boring/Well ID	Sample Date	Screening Depth (ft)	Color-Tec Results (ppm)		Laboratory Analysis Results (ug/L)							
			Tetrachlororethene (PCE)	Trichchlorethene (TCE)	Tetrachlororethene (PCE)	Trichchlorethene (TCE)	cis-1, 2-Dichloroethene	trans-1, 2-Dichloroethene	Vinyl Chloride	Chloroform	Bromodichloromethane (BCM)	Dibromochloromethane (DBCM)
B-1	12/13/2016	13-17	1	< 1	**39**	1.8	< 5	< 5	< 2	< 1	< 1	< 1
	12/13/2016	22-26	< 1	0.5	**200**	**13**	< 5	< 5	< 2	< 1	< 1	< 1
	12/13/2016	31-35	1.5	0.5	**160**	**16**	< 1	< 1	< 2	< 1	< 1	<1
B-2	12/13/2016	13-17	< 1	< 1	**68**	2.4	< 5	< 5	< 2	< 1	< 1	< 1
	12/13/2016	22-26	4	3	**560**	**46**	9.3	< 5	< 10	< 5	< 5	< 5
B-3	12/14/2016	13-17	< 1	< 1	**16**	1.3	< 1	< 1	< 2	1.2	< 1	< 1
	12/14/2016	21-25	< 1	< 1	**28**	1.2	< 1	< 1	< 2	< 1	< 1	< 1
B-4	12/15/2016	23-27	< 1	< 1	**7.5**	1.2	< 1	< 1	< 2	4	2.3	< 1
	12/15/2016	34-38	< 1	< 1	**8.9**	2.7	< 5	< 5	< 2	< 1	< 1	< 1
B-5	12/15/2016	17-21	< 1	< 1	1.1	< 1	< 1	< 1	< 2	4.2	2.8	< 1
	12/15/2016	27-31	< 1	< 1	4.8	1.5	< 1	< 1	< 2	1.3	< 1	< 1
B-6	12/14/2016	28-32	< 1	< 1	2.9	< 1	< 1	< 1	< 2	5.4	3.4	< 1
	12/14/2016	41-45	< 1	< 1	1.4	< 1	< 1	< 1	< 2	6.9	3.7	1.1
B-7	12/16/2016	28-32	< 1	< 1	1.2	< 1	< 1	< 1	< 2	5.2	2.6	< 1
	12/16/2016	40-44	< 1	< 1	**30**	**8.8**	45	< 1	< 2	5.2	1.2	< 1
B-8	12/16/2016	31-35	< 1	< 1	1.3	< 1	< 1	< 1	< 2	6.1	3	< 1
	12/16/2016	44-48	< 1	< 1	4.5	**5.2**	8	1.5	**2.3**	< 1	< 1	< 1
B-9	12/19/2016	28-32	< 1	< 1	**31**	**6.6**	1.7	< 1	< 2	1.6	< 1	< 1
	12/19/2016	38-42	< 1	< 1	1	1.7	< 5	< 5	< 2	1.3	< 1	< 1
B-11	10/12/2017	30-34	NA	NA	3.3 J	0.62 J	< 5	< 5	< 2	< 5	< 5	< 5
B-13	10/12/2017	13-17	NA	NA	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 5
	10/12/2017	19-23	NA	NA	1.2 J	< 5	< 5	< 5	< 2	< 5	< 5	< 5
B-14	10/12/2017	20-24	NA	NA	**13**	12	1.0 J	< 5	< 2	< 5	< 5	< 5
B-18	10/11/2017	14-18	NA	NA	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 5
B-19	10/11/2017	24-28	NA	NA	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 5
	10/11/2017	35-39	NA	NA	**6.7**	1.3 J	< 5	< 5	< 2	< 5	< 5	< 5
B-20	10/12/2017	12-16	NA	NA	<5	< 5	< 5	< 5	< 2	< 5	< 5	< 5
	10/12/2017	22-26	NA	NA	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 5
RW-2R	10/12/2017	19.2-29.2	NA	NA	**120**	**7.9**	< 1	< 1	< 1	< 1	< 1	< 1
W-7A	10/12/2017	13-18	NA	NA	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-10	10/12/2017	18.5-23.5	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-13R	10/12/2017	15.5-18.5	NA	NA	**31**	2.5	1.1	< 1	< 1	< 1	< 1	< 1
W-15	10/13/2017	13.5-18.5	NA	NA	**26**	3.2	2.4	< 1	< 1	< 1	< 1	< 1
W-15 DUP	10/13/2017	13.5-18.5	NA	NA	**30**	3.6	2.6	< 1	< 1	< 1	< 1	< 1
W-16	10/13/2017	15.5-18.5	NA	NA	**12**	3	2.6	< 1	< 1	< 1	< 1	< 1
W-18	10/12/2017	12.5-17.5	NA	NA	4	< 1	< 1	< 1	< 1	2.6	< 1	< 1
W-22	10/12/2017	13.4-17.8	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-24	10/13/2017	10.1-15.1	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-26	10/13/2017	10.1-15.1	NA	NA	< 1	< 1	4.1	< 1	< 1	< 1	< 1	< 1
W-29	10/12/2017	10.1-15.1	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-30	10/12/2017	10.2-15.2	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-32	10/12/2017	17.5-22.5	NA	NA	1.3	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-33	10/12/2017	15.7-20.7	NA	NA	**560**	**77**	< 5	< 5	< 5	< 5	< 5	< 5
W-33 DUP	10/12/2017	15.7-20.7	NA	NA	**520**	**72**	< 5	< 5	< 5	< 5	< 5	< 5
W-39	10/13/2017	12-22	NA	NA	**360**	< 5	< 5	< 5	< 5	< 5	< 5	< 5
W-41R	10/12/2017	14-24	NA	NA	**190**	**13**	< 1	< 1	< 1	< 1	< 1	< 1
W-43	10/13/2017	10.5-20.5	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-44	10/12/2017	16.0-26.0	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-44 DUP	10/12/2017	16.0-26.0	NA	NA	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-47	10/13/2017	34.8-44.8	NA	NA	1.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1
W-48	10/13/2017	31.3-41.3	NA	NA	**170**	**7.9**	3.3	< 1	< 1	< 1	< 1	< 1
MCL			N/A	N/A	5	5	70	100	2	N/A	N/A	N/A

FIGURES



Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS Surveying\Site Location Map USGS Topo 171121.mxd

N

Legend

Facility Property Boundary

Source:
Seamless, USGS Topographic Map obtained ArcGIS Map Service.
(http://services.arcgisonline.com)

3,000 0 3,000 Feet

1:36,000

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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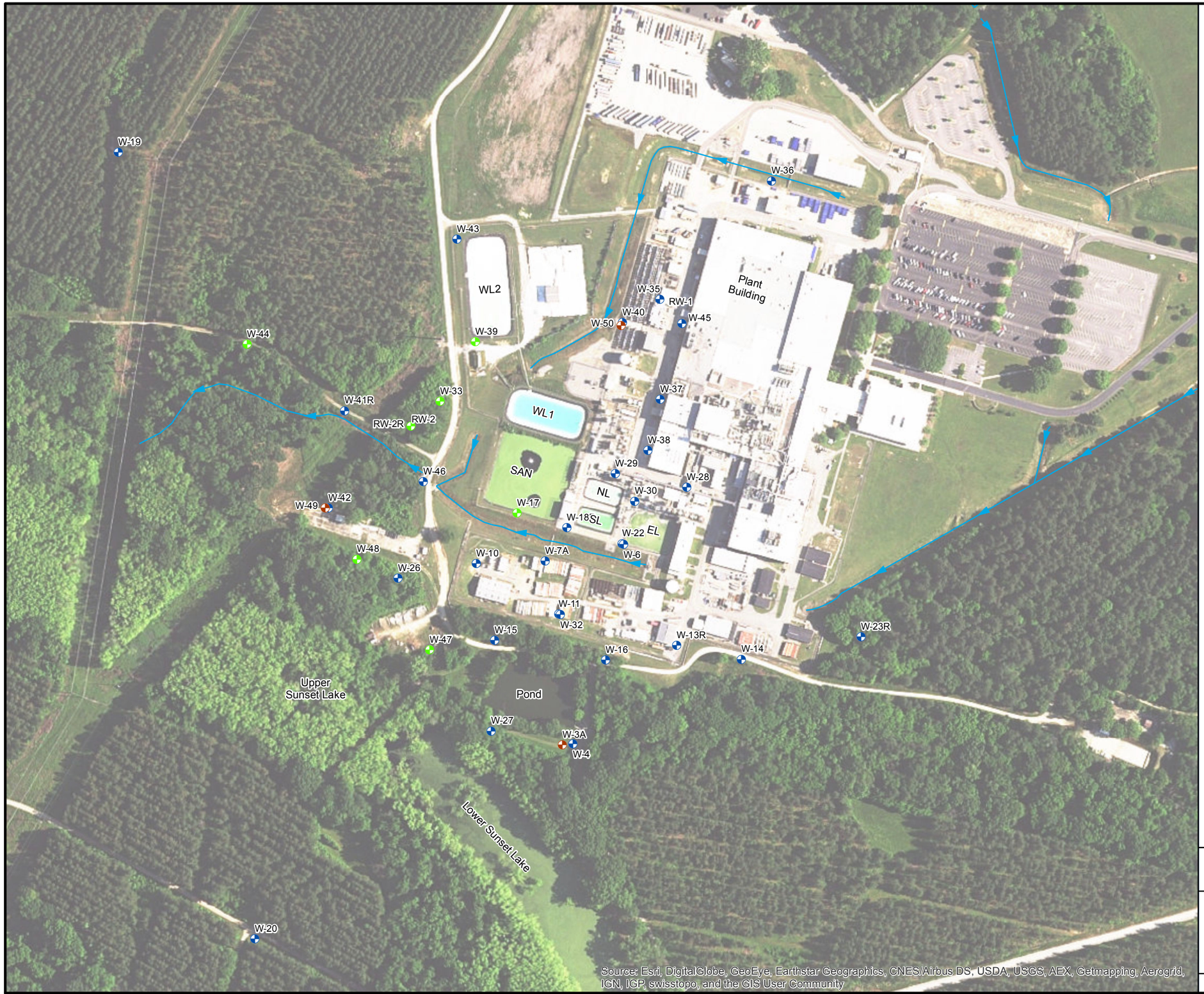
SITE LOCATION MAP

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 1**



N

Legend

- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

300 150 0 300
Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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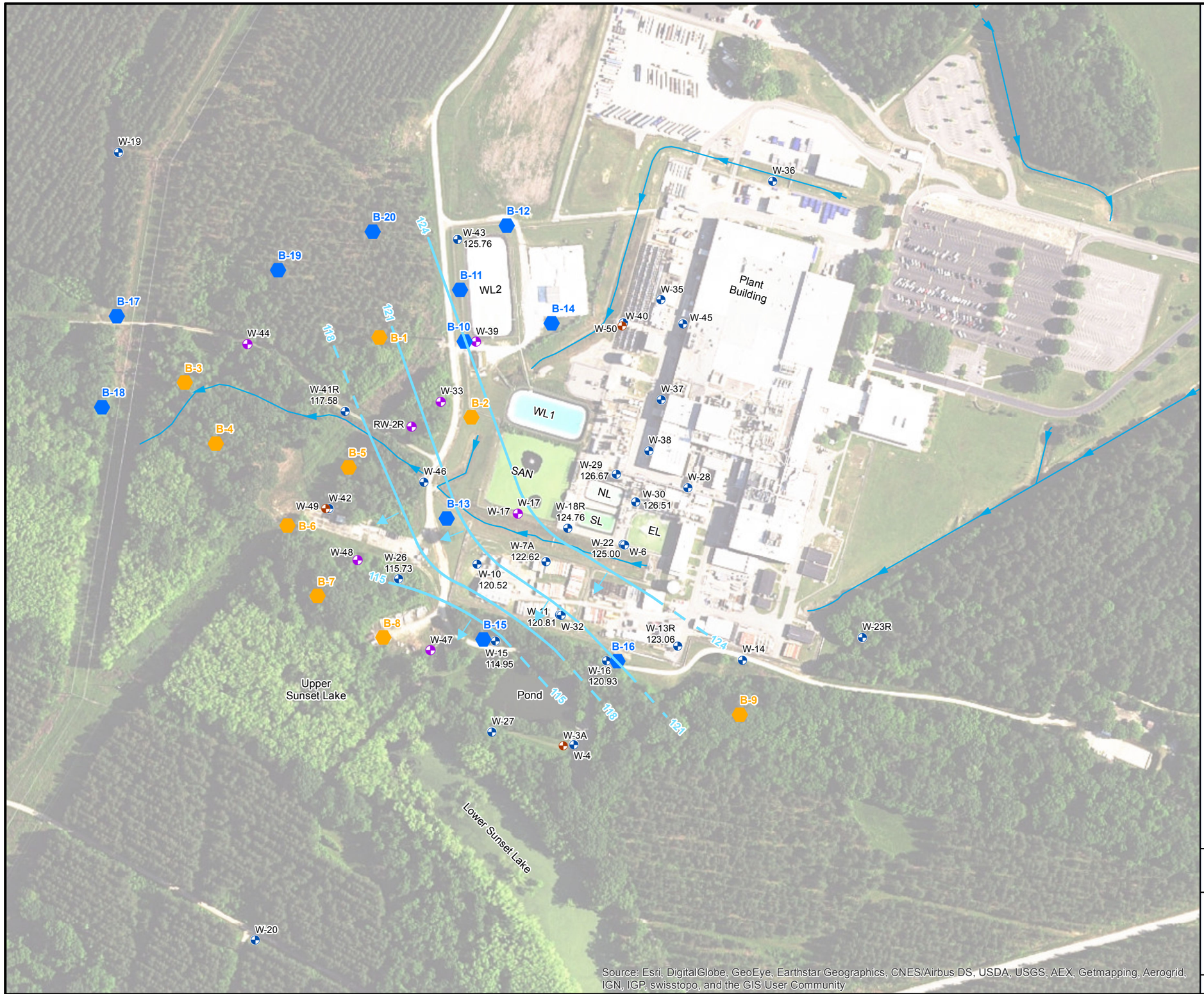
Site Plan

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 2**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\SitePlanMap_171205.mxd



N

Legend

- DPT Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- Potentiometric Line
  Contour Interval = 3ft
- Direction of Groundwater Flow
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 124.76 Groundwater Elevation

300 150 0 300
Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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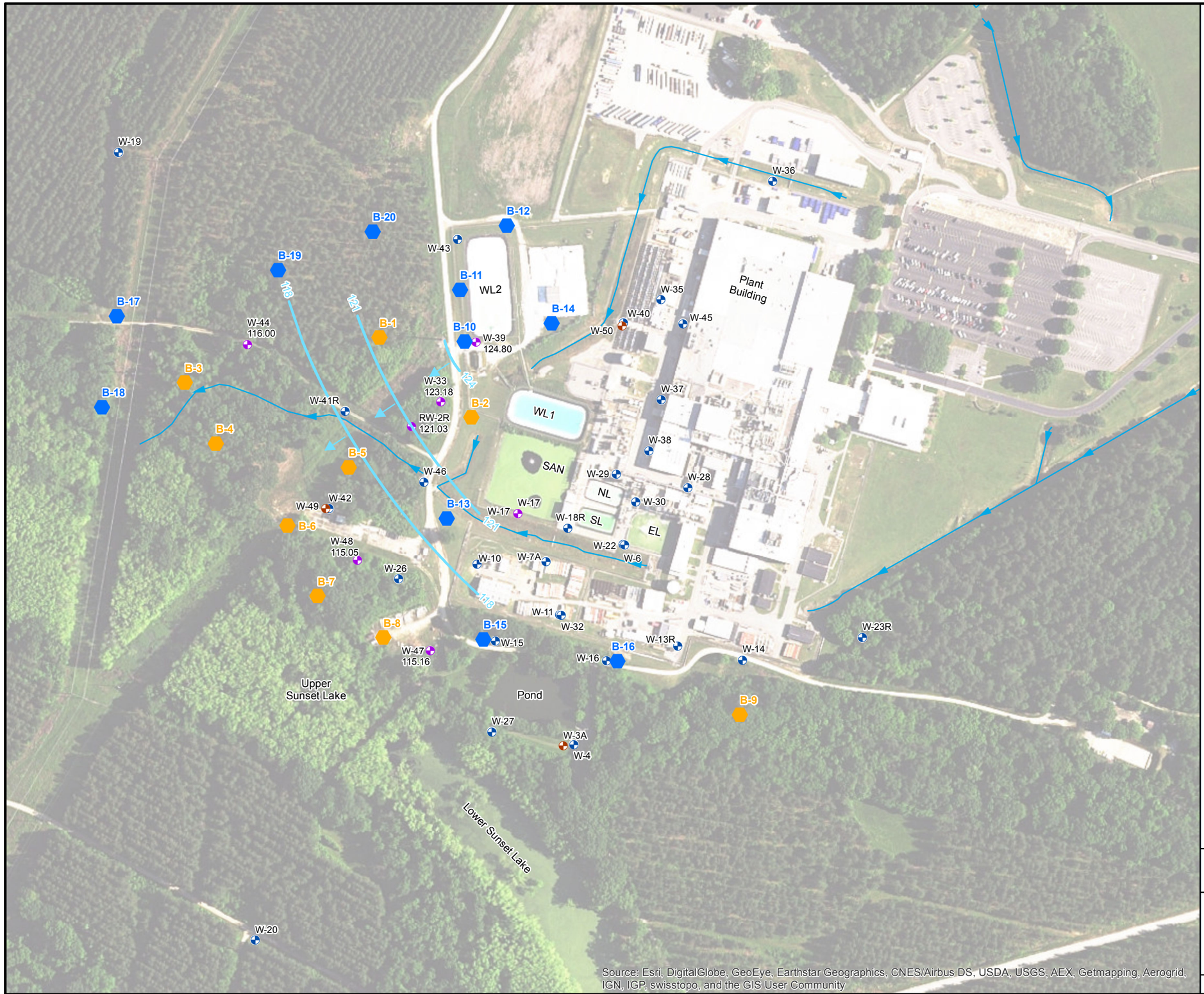
Potentiometric Surface Map - Shallow Water Table

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 3**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\GroundwaterElevation_Shallow.mxd



N

Legend

- DPT Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- Potentiometric Line
  Contour Interval = 3ft
- Direction of Groundwater Flow
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 115.05 Groundwater Elevation

300 150 0 300
Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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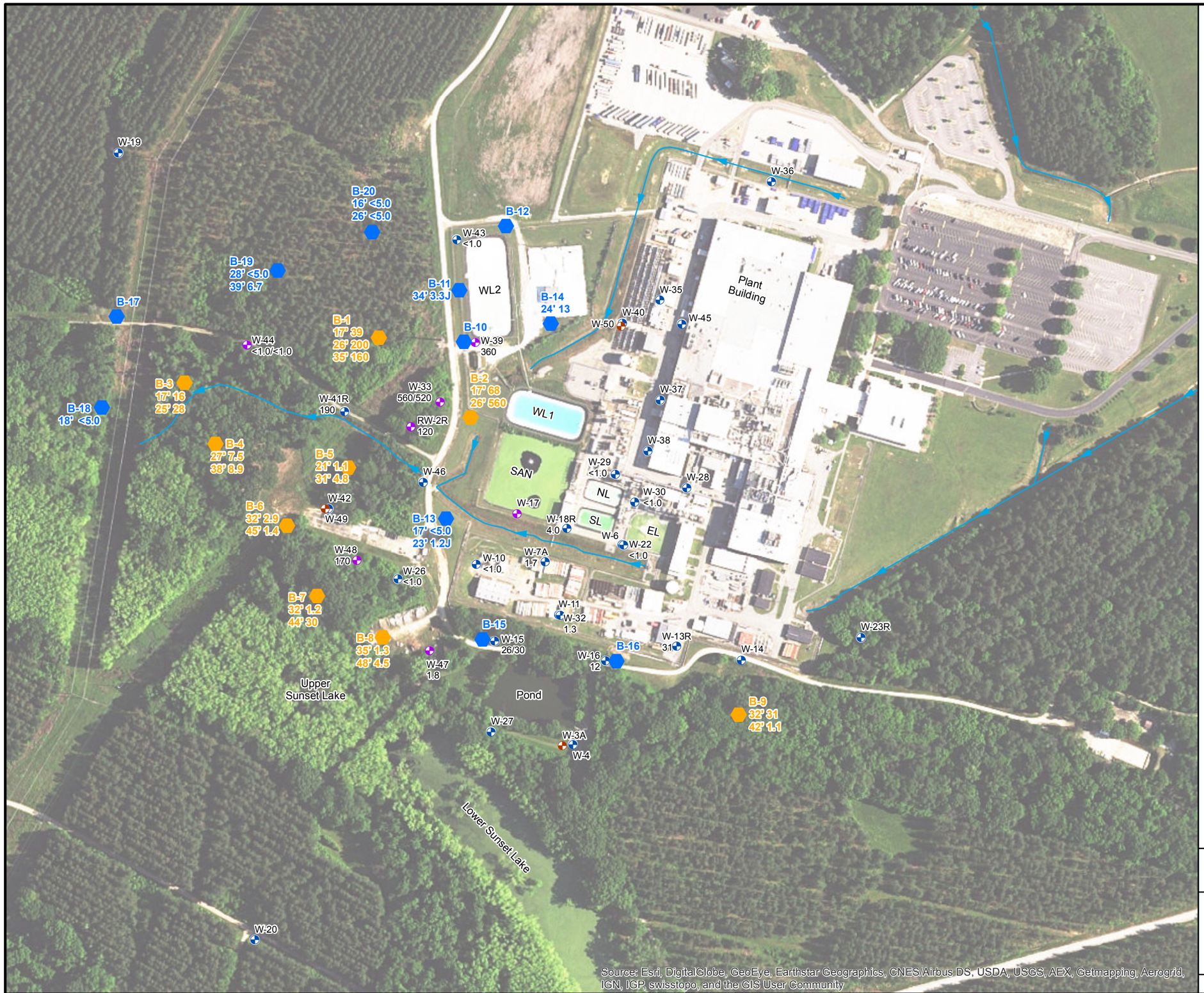
Potentiometric Surface Map - Intermediate Water Table

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 4**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\GroundwaterElevation_Intermediate.mxd



N

Legend

- DPT Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 560 Tetrachloroethene (PCE) Concentration in ug/L*
- 39' Groundwater Sample Collection Depth in Feet*

300 150 0 300 Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

* Samples taken in December 2016 and October 2017

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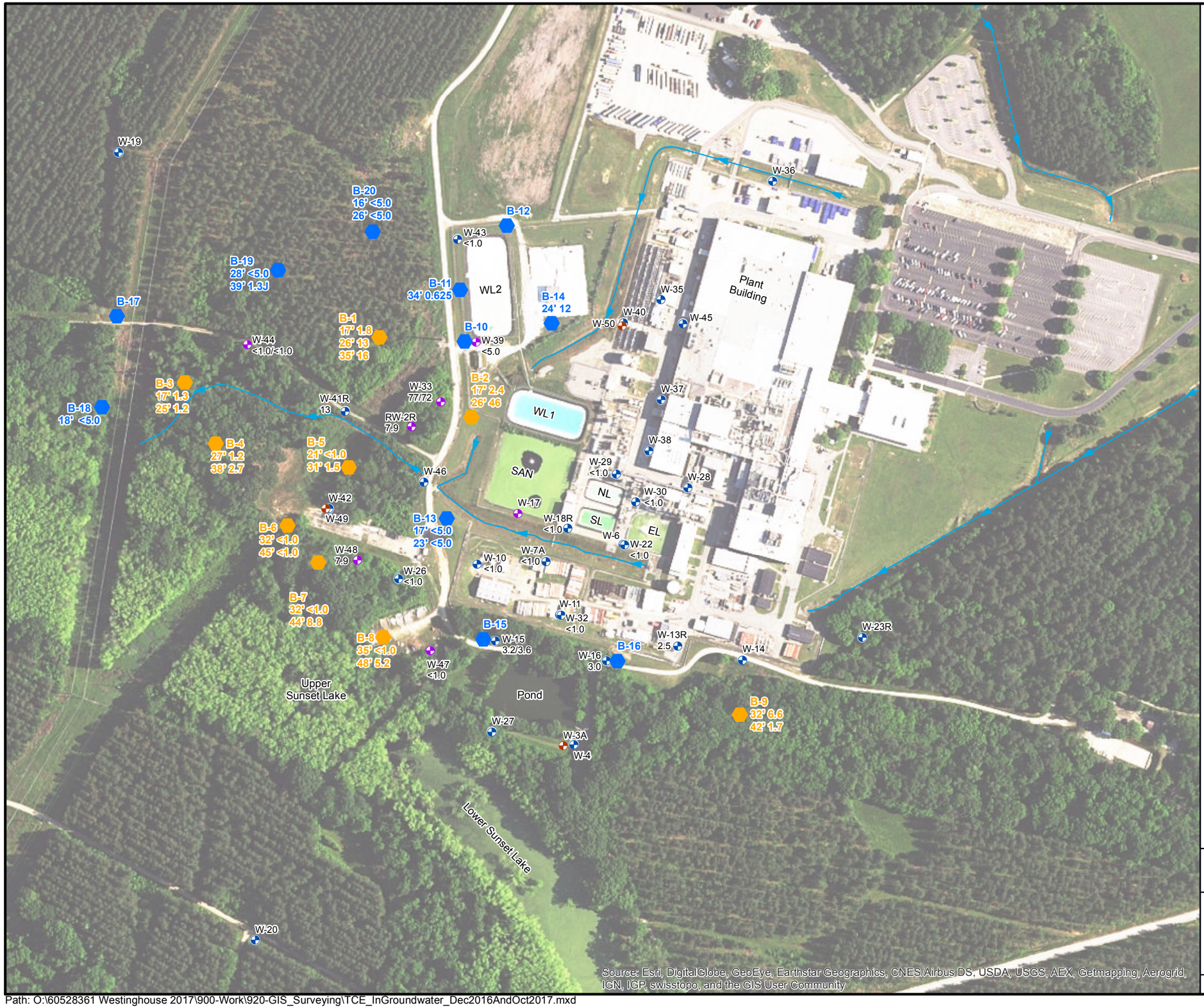
PCE in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 5**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\PCE_InGroundwater_Dec2016AndOct2017.mxd



N

Legend

- DPT Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 77 Trichloroethene (TCE) Concentration in ug/L*
- 39' Groundwater Sample Collection Depth in Feet*

* Samples taken in December 2016 and October 2017

300 150 0 300
Feet
1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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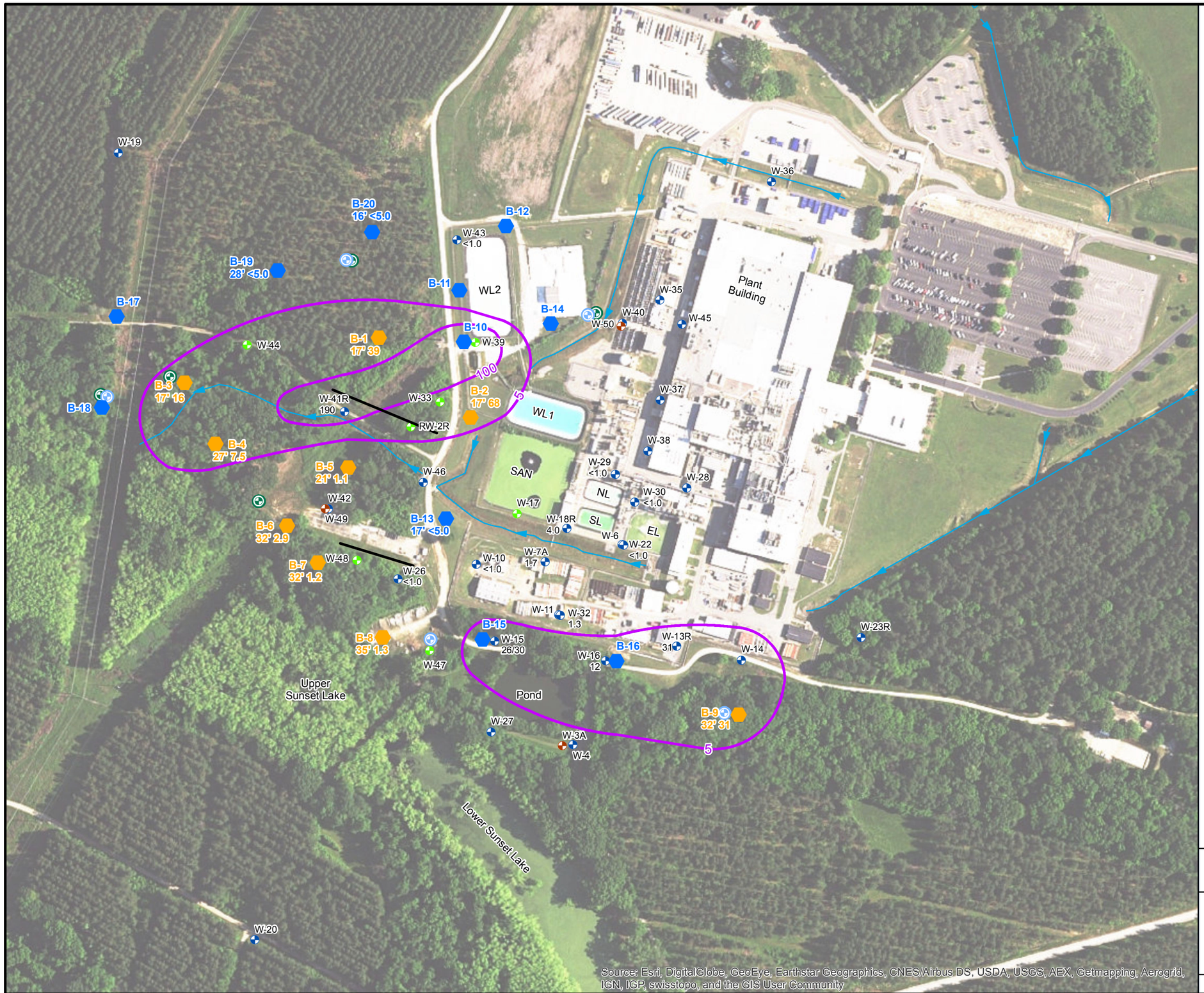
TCE in Groundwater

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 6**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\TCE_InGroundwater_Dec2016AndOct2017.mxd



Legend

- Proposed Shallow Monitoring Wells
- Proposed Intermediate Monitoring Wells
- Sonic Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- AS/SVE System Transect Lines
- PCE Plume
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 560 Tetrachloroethene (PCE) Concentration in ug/L*
- 39' Groundwater Sample Collection Depth in Feet*

300 150 0 300 Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

* Samples taken in December 2016 and October 2017

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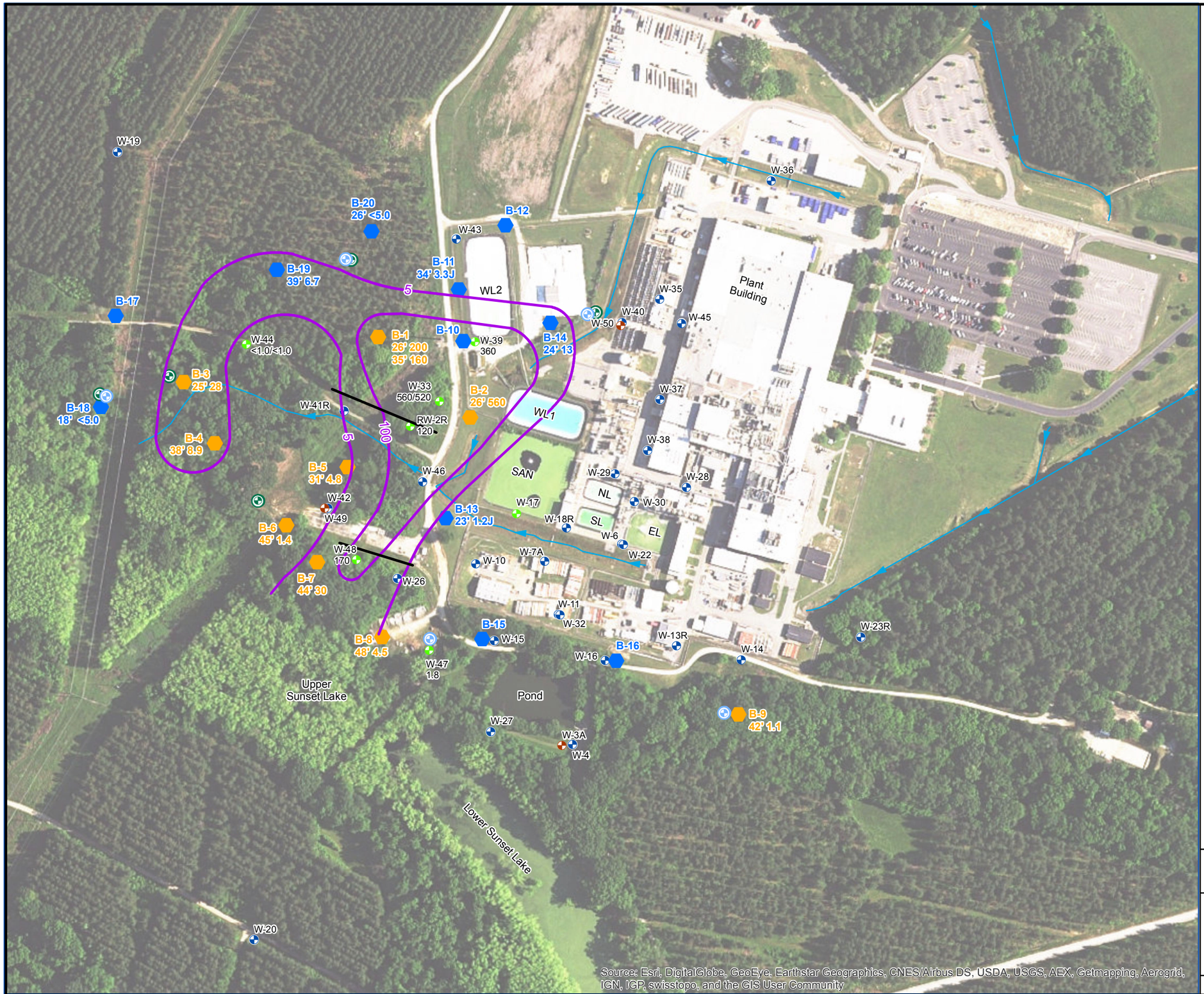
PCE Plume Map - Shallow Water Table

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 7**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\PCE_PlumeMap_ShallowWaterTable.mxd Date: 12/5/2017



Legend

- Proposed Shallow Monitoring Wells
- Proposed Intermediate Monitoring Wells
- Sonic Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- AS/SVE System Transect Lines
- PCE Plume
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 560 Tetrachloroethene (PCE) Concentration in ug/L*
- 39' Groundwater Sample Collection Depth in Feet*

300 150 0 300 Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

* Samples taken in December 2016 and October 2017

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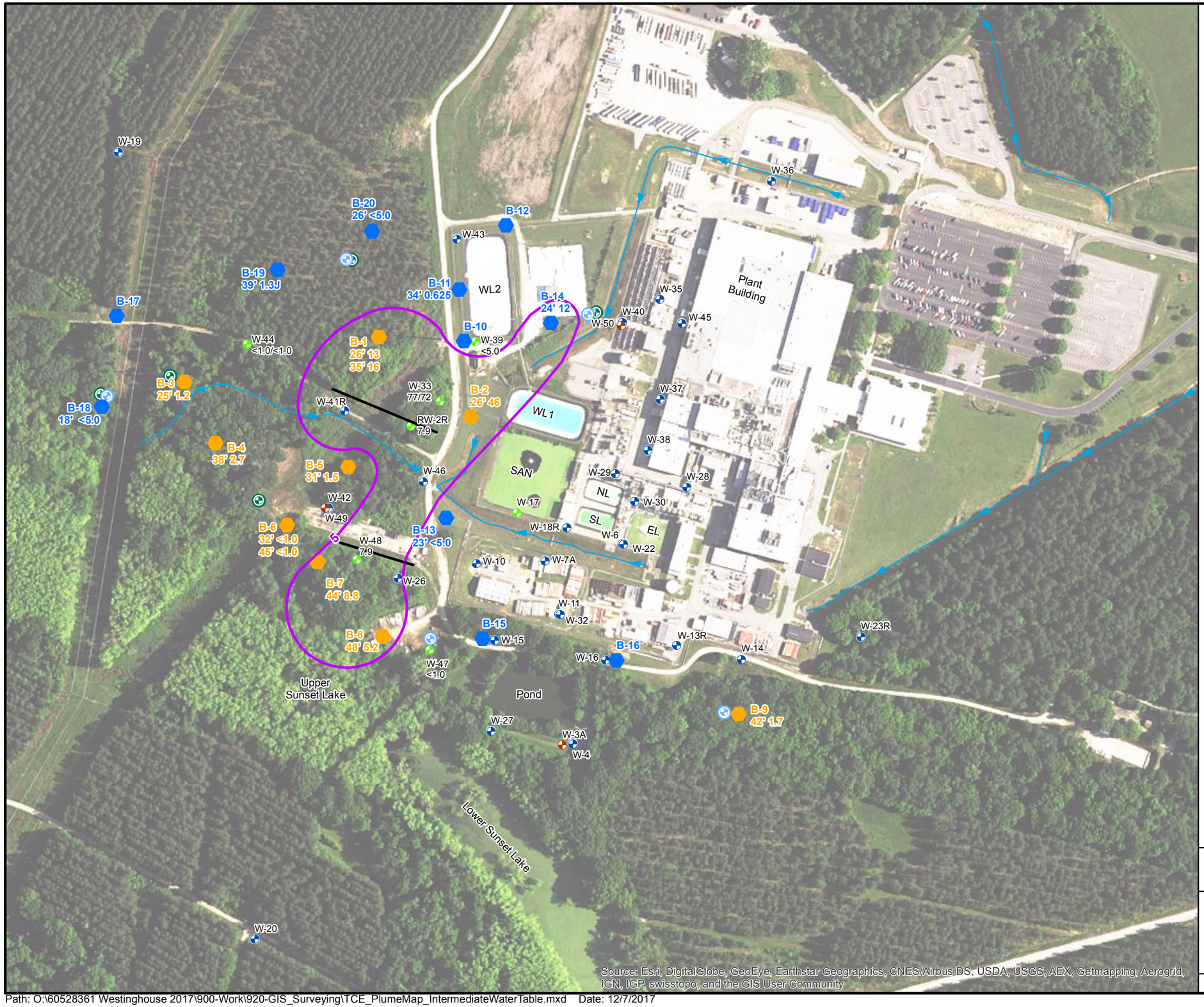
PCE Plume Map - Intermediate Water Table

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 8**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\PCE_PlumeMap_IntermediateWaterTable.mxd Date: 12/5/2017



N

Legend

- Proposed Shallow Monitoring Wells
- Proposed Intermediate Monitoring Wells
- Sonic Boring Locations
- LLMIP Boring Locations
- Shallow Aquifer Monitoring Well Location
- Intermediate Aquifer Monitoring Well Location
- Black Mingo Aquifer Monitoring Well Location
- Ditch
- AS/SVE System Transect Lines
- TCE Plume
- EL East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2
- 77 Trichloroethene (TCE) Concentration in ug/L*
- 39' Groundwater Sample Collection Depth in Feet*

* Samples taken in December 2016 and October 2017

300 150 0 300 Feet

1:3,600

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

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TCE Plume Map - Intermediate Water Table

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO.	PREPARED BY:	DATE:	
60528361	KPM	November 2017	**FIGURE 9**

Path: O:\60528361 Westinghouse 2017\900-Work\920-GIS_Surveying\TCE_PlumeMap_IntermediateWaterTable.mxd Date: 12/7/2017

APPENDIX A
SONIC BORING LOGS

Test Boring Report

BORING NO. B-1
PAGE 1 **OF** 2

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:
DATE START: 12/12/16
DATE FINISH: 12/12/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

GROUNDWATER			DRILLING INFORMATION							
DATE	HRS AFTER COMP	WATER	DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
			Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
						CASING DEPTH	NA	GROUT TYPE	NA
						HAMMER WT	NA	HAMMER FALL	NA

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	CLAY (CL), tan to red, stiff, moderate plasticity, damp
					SANDY CLAY (CL), tan, very stiff, low plasticity, some fine to medium grained sand, laminated, damp
	0.0				
5.0					SILTY SAND (SM), light tan, fine to medium grained, well graded, damp
				7 - 17	SAND (SW), tan, fine to medium grained, few silt, few clay, well graded, moist
10.0					SAND (SW), tan to brown, fine to coarse grained, well graded, moist
	0.0				
					SAND (SW), light gray, as above, saturated
15.0			B-1-17		
	1.1				
				17 - 27	SAND AND GRAVEL (SW), light gray, medium grained to gravel, well graded, saturated
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-1

PAGE 2 OF 2

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0	0.4			17 - 27	SAND AND GRAVEL (SW), light gray, medium grained to gravel, well graded, saturated
25.0	0.4		B-1-26		CLAY (CH), light red to gray, soft, high plasticity, moist
	0.7			27 - 32	SILT (ML), tan, medium stiff, few fine grained sand, wet
30.0	0.4				SILTY SAND (SM), light gray to tan, fine to medium grained, well graded, saturated
	3.0		B-1-35	32 - 37	SILTY SAND (SM), gray, fine to medium grained, little silt, well graded, saturated
35.0	1.7				SILTY CLAY (CL), dark gray, stiff, moderate plasticity, damp
					CLAY (CL), dark gray, stiff, moderate plasticity, damp
40.0					Boring terminated at 37 ft.
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-2
PAGE 1 **OF** 2

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:
DATE START: 12/13/16
DATE FINISH: 12/13/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					SAND (SW), Fill, brown, fine to medium grained, well graded, damp
				0 - 7	SILTY SAND (SM), tan, fine grained, some silt, few clay, multiple lenses of silt and fine sand, damp
	0.0				
5.0					SILTY SAND (SM), tan, fine to coarse grained, some silt, few clay, damp
	0.0			7 - 17	
					SAND (SW), light red, fine to coarse grained, well graded, moist
10.0					
	0.1				SAND (SW), light gray, fine grained to gravel, well graded, saturated
			B-2-17		SAND (SW), light gray, fine to coarse grained, well graded, saturated
15.0					
	5.8				
				17 - 27	SAND (SW), as above
	7.1				
					CLAY (CH), tan, stiff, moderate plasticity, moist
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-2

PAGE 2 OF 2

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					CLAY (CH), tan to gray, stiff, moderate plasticity, moist
	2.3		B-2-26	17 - 27	SAND (SW), tan, fine to coarse grained, little clay, well graded, saturated
25.0	1.0				CLAY (CL), dark gray, very stiff, low plasticity, dry
					Boring terminated at 27 ft.
30.0					
35.0					
40.0					
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-3
PAGE 1 **OF** 2

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/14/16
DATE FINISH: 12/14/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	CLAYEY SILT (MH), tan to yellow, medium stiff, some clay, moderate plasticity, moist
	0.0				
5.0					SAND (SW), tan, fine to coarse grained, few clay, well graded, wet
	0.0				
				7 - 17	
	0.0				
10.0					SAND (SW), tan to gray, fine to coarse grained, few clay, well graded, saturated
	0.0				
			B-3-17		
15.0	0.1				
				17 - 27	SAND (SP), light gray, fine grained, few silt, poorly graded, saturated
	0.0				SAND (SW), light gray, fine to coarse grained, well graded, saturated
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-3

PAGE 2 OF 2

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					SAND (SW), light gray, fine to coarse grained, well graded, saturated
	0.7		B-3-25	17 - 27	
	1.8				SAND (SW), reddish brown, fine to coarse grained, well graded, saturated
25.0					CLAY (CL), dark gray, very stiff, moderate plasticity, damp
					Boring terminated at 27 ft.
30.0					
35.0					
40.0					
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-4
PAGE 1 **OF** 2

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/15/16
DATE FINISH: 12/15/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	SAND (SW), tan, fine to coarse grained, few clay, well graded, moist
	0.0				
5.0					
	0.0			7 - 17	SAND (SW), tan to gray, fine to coarse grained, few clay, well graded, moist
10.0					
	0.0				SAND (SW), tan to gray, fine to medium grained, few clay, well graded, moist
15.0				17 - 27	SAND (SW), gray, fine to coarse grained, well graded, saturated
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-4

PAGE 2 OF 2

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					SAND (SW), gray, fine to medium grained, few clay, well graded, saturated
	0.0				
			B-4-27	17 - 27	
25.0					
					SAND (SW), gray, fine to coarse grained, well graded, saturated
	0.0				
30.0					
				27 - 37	
			B-4-38		
35.0	0.0				SAND AND GRAVEL (SW), tan, fine grained to gravel, few cobbles, well graded, saturated
					CLAY (CH), gray, soft, high plasticity, wet
					SAND AND GRAVEL (SW), tan, fine grained to gravel, few cobbles, well graded, saturated
				37 - 44	CLAY (CH), dark gray, very stiff, moderate plasticity, damp
40.0					CLAY (CH), as above
					Boring terminated at 44 ft.
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-5
PAGE 1 **OF** 2

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

DATE START: 12/15/16
DATE FINISH: 12/15/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

GROUNDWATER			DRILLING INFORMATION						
DATE	HRS AFTER COMP	WATER	DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
			Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
						CASING DEPTH	NA	GROUT TYPE	NA
						HAMMER WT	NA	HAMMER FALL	NA

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	SAND (SW), brown, fine to coarse grained, few clay, well graded, damp
5.0					
	0.0			7 - 17	SAND (SW), tan to brown, fine to coarse grained, well graded, damp
10.0	0.0				
	0.0				SAND (SW), gray, fine to coarse grained, well graded, moist
15.0			B-5-21	17 - 27	SAND (SW), gray, fine to coarse grained, well graded, saturated
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-5

PAGE 2 OF 2

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0	0.0		B-5-21	17 - 27	SAND (SW), tan to gray, fine to coarse grained, well graded, saturated
25.0					SAND (SW), as above with few gravel
			B-5-31	27 - 33	SAND AND GRAVEL (SW), gray, fine grained to gravel, well graded, saturated
30.0	0.4				CLAY (CH), dark gray, very stiff, moderate plasticity, damp
35.0					Boring terminated at 33 ft.
40.0					
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-6
PAGE 1 **OF** 3

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/14/16
DATE FINISH: 12/14/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	CLAYEY SAND (SC), reddish brown, fine to coarse grained, little clay, well graded, damp .
					CLAY (CH), red, stiff, moderate plasticity, moist
					? ? ?
5.0					
	0.1				SAND (SW), brownish red, fine to coarse grained, few clay, well graded, damp
				7 - 17	
10.0					
					SAND (SW), as above
	0.4				
15.0					
					SAND (SW), light gray, fine to coarse grained, well graded, damp
				17 - 27	
	0.0				
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-6

PAGE 2 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0				17 - 27	SAND (SW), light gray, fine to coarse grained, well graded, damp
	0.0				
25.0					
				27 - 37	SAND (SW), light gray to tan, fine to coarse grained, well graded, saturated
	0.0		B-6-32		
30.0					SAND AND GRAVEL (SW), light gray to tan, fine grained to gravel, well graded, saturated
35.0	0.0				SAND (SW), light gray, fine to coarse grained, well graded, saturated
				37 - 47	SAND (SW), light gray, fine to coarse grained, well graded, saturated
	0.0				
40.0			B-6-45		
	0.0				CLAY (CH), dark gray, very stiff, high plasticity, most to wet
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-6

PAGE 3 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0				37 - 47	CLAY (CH), dark gray, very stiff, high plasticity, most to wet
					Boring terminated at 47 ft.
50.0					
55.0					
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-7
PAGE 1 **OF** 3

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/16/16
DATE FINISH: 12/16/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	SAND (SW), brown, fine to medium grained, few clay, well graded, damp SANDY CLAY (CL), red, stiff, some fine to medium grained sand, low plasticity, damp
	0.0				
5.0					? ? ?
				7 - 17	SAND (SW), red, fine to medium grained, few clay, well graded, damp
	0.0				
10.0					
15.0				17 - 27	SAND (SW), tan, fine to medium grained, few clay, well graded, damp
	0.0				
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-7

PAGE 2 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					SAND (SW), tan, fine to medium grained, few clay, well graded, damp
	0.0				
				17 - 27	
	0.0				
25.0					SILTY SAND (SM), gray, fine grained, some silt, poorly graded, wet
	0.0				SAND (SW), light gray to tan, fine to coarse grained, well graded, saturated
			B-7-32	27 - 32	
30.0	0.0				
					SAND (SW), light gray to tan, fine to coarse grained, well graded, saturated
	0.0			27 - 37	
35.0					
					SAND (SW), light gray, fine to coarse grained, well graded, saturated
	0.0				
40.0				37 - 47	
			B-7-44		
	0.0				
					CLAY (CH), dark gray, very stiff, high plasticity, most
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-7

PAGE 3 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0				37 - 47	CLAY (CH), dark gray, very stiff, high plasticity, most
					Boring terminated at 47 ft.
50.0					
55.0					
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-8
PAGE 1 **OF** 3

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/16/16
DATE FINISH: 12/16/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	SAND (SW), brown, fine to coarse grained, few clay, well graded, damp
	0.0				CLAYEY SAND (SC), tan, fine to medium grained, little clay, well graded, damp
5.0					? ? ?
				7 - 17	SAND (SP), dark gray, fine grained, poorly graded, damp
	0.0				
10.0					
					SAND (SW), red, fine to medium grained, few clay, well graded, damp
	3.0				
15.0					
				17 - 27	SAND (SW), as above
	0.0				
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-8

PAGE 2 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					
				17 - 27	SAND (SW), gray, fine to coarse grained, few clay, well graded, moist
	0.0				
25.0					
					SAND (SW), gray, fine to coarse grained, well graded, saturated
	0.0				
30.0				27 - 37	
	0.3		B-8-35		
	0.0				
35.0					
					SAND (SW), as above
	0.0				
40.0				37 - 47	
	0.0				
					SAND (SW), tan to gray, fine to coarse grained, few gravel, well graded, saturated
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-8

PAGE 3 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0			B-8-48	37 - 47	SAND (SW), tan to gray, fine to coarse grained, few gravel, well graded, saturated
				47 - 51	CLAY (CH), dark gray, very stiff, high plasticity, damp
50.0					
					Boring terminated at 51 ft.
55.0					
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLER ID.	
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

NOTES	
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-9
PAGE 1 **OF** 3

PROJECT: Westinghouse Columbia Fuel Fabrication Facility
CLIENT: Westinghouse Columbia Fuel Fabrication Facility
CONTRACTOR: SAEDACCO
EQUIPMENT: Geoprobe Sonic

PROJECT NO: 60528361
LOCATION: Columbia, SC
ELEVATION:
NORTHING:
EASTING:

GROUNDWATER

DATE	HRS AFTER COMP	WATER

DRILLING INFORMATION

DRILL METHOD	BORING DIAM		CASING INSTALL	N	TEMP / PERM	P
Sonic	6.0 in		CASING DIA.	NA	CASING TYPE	NA
			CASING DEPTH	NA	GROUT TYPE	NA
			HAMMER WT	NA	HAMMER FALL	NA

DATE START: 12/19/16
DATE FINISH: 12/19/16
DRILLER: S. Smith
OVERSIGHT: C. Suddeth

DEPTH IN FEET	PID (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
				0 - 7	SILTY CLAY (CL), tan, medium stiff, low plasticity, damp
	0.0				
5.0					
				7 - 17	SILTY CLAY (CL), as above
	0.0				
10.0					
	3.0				
					? ? ?
15.0					
				17 - 27	SANDY CLAY (CL), gray, stiff, some medium to coarse grained sand, moderate plasticity, moist
	0.0				CLAYEY SAND (SC), gray, fine to coarse grained, some clay, well graded, moist .
20.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-9

PAGE 2 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20.0					CLAYEY SAND (SC), gray, fine to coarse grained, some clay, well graded, moist
					SAND (SW), gray, fine to coarse grained, few clay, well graded, wet
				17 - 27	
	0.0				
25.0					
				27 - 32	CLAYEY SAND (SC), gray, fine to coarse grained, some clay, well graded, saturated
	0.0		B-9-32		
30.0					SILTY CLAY (CL), gray, stiff, low plasticity, wet
				32 - 37	SILTY SAND (SP), gray, fine grained, poorly graded, saturated
	0.0				SAND (SW), tan to gray, fine to coarse grained, few cobbles, well graded, saturated
35.0					SAND (SW), tan, fine to coarse grained, well graded, saturated
				37 - 46	
					SAND (SW), as above
40.0	0.0		B-9-42		
					CLAY (CH), dark gray, very stiff, high plasticity, damp
	0.0				
45.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

Test Boring Report

BORING NO. B-9

PAGE 3 OF 3

DEPTH IN FEET	ORGANIC VAPOR SCREENING (PPM)	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
45.0				37 - 46	CLAY (CH), dark gray, very stiff, high plasticity, damp
					Boring terminated at 46 ft.
50.0					
55.0					
60.0					
65.0					
70.0					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
50+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

	SAMPLER ID.
SS	SPLIT SPOON
ST	SHELBY TUBE
G	GRAB SAMPLE
MC	MACRO-CORE

DESCRIPTIONS	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

	NOTES
WD	WHILE DRILLING
NE	NOT ENCOUNTERED
UR	NOT READ
NR	NO RECOVERY

APPENDIX B
LABORATORY ANALYTICAL RESULTS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Westinghouse Electric Company
PO Drawer R
Columbia, SC 29250
Attention: Cynthia Logsdon

Project Name: **Westinghouse Columbia**

Lot Number: **RL20025**
Date Completed: **12/27/2016**

Grant Wilton
Project Manager

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Westinghouse Electric Company
Lot Number: RL20025
Project Name: Westinghouse Columbia
Project Number:

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Westinghouse Electric Company
Lot Number: RL20025
Project Name: Westinghouse Columbia
Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	B-1-17	Aqueous	12/12/2016 1630	12/20/2016
002	B-1-26	Aqueous	12/13/2016 1050	12/20/2016
003	B-1-35	Aqueous	12/13/2016 1207	12/20/2016
004	B-2-17	Aqueous	12/13/2016 1510	12/20/2016
005	B-2-26	Aqueous	12/13/2016 1700	12/20/2016
006	B-3-17	Aqueous	12/14/2016 1005	12/20/2016
007	B-3-25	Aqueous	12/14/2016 1100	12/20/2016
008	B-6-32	Aqueous	12/14/2016 1450	12/20/2016
009	B-6-45	Aqueous	12/14/2016 1652	12/20/2016
010	B-4-27	Aqueous	12/15/2016 1115	12/20/2016
011	B-4-38	Aqueous	12/15/2016 1245	12/20/2016
012	B-5-21	Aqueous	12/15/2016 1600	12/20/2016
013	B-5-31	Aqueous	12/15/2016 1710	12/20/2016
014	B-8-35	Aqueous	12/16/2016 1125	12/20/2016
015	B-8-48	Aqueous	12/16/2016 1315	12/20/2016
016	B-7-32	Aqueous	12/16/2016 1635	12/20/2016
017	B-7-44	Aqueous	12/19/2016 1050	12/20/2016
018	B-9-32	Aqueous	12/19/2016 1615	12/20/2016
019	B-9-42	Aqueous	12/19/2016 1755	12/20/2016

(19 samples)

Executive Summary
Westinghouse Electric Company
Lot Number: RL20025
Project Name: Westinghouse Columbia
Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	B-1-17	Aqueous	Tetrachloroethene	8260B	39		ug/L	7
001	B-1-17	Aqueous	Trichloroethene	8260B	1.8		ug/L	7
002	B-1-26	Aqueous	Tetrachloroethene	8260B	200		ug/L	9
002	B-1-26	Aqueous	Trichloroethene	8260B	13		ug/L	9
003	B-1-35	Aqueous	Tetrachloroethene	8260B	160		ug/L	11
003	B-1-35	Aqueous	Trichloroethene	8260B	16		ug/L	11
004	B-2-17	Aqueous	Tetrachloroethene	8260B	68		ug/L	13
004	B-2-17	Aqueous	Trichloroethene	8260B	2.4		ug/L	13
005	B-2-26	Aqueous	cis-1,2-Dichloroethene	8260B	9.3		ug/L	14
005	B-2-26	Aqueous	Tetrachloroethene	8260B	560		ug/L	15
005	B-2-26	Aqueous	Trichloroethene	8260B	46		ug/L	15
006	B-3-17	Aqueous	Chloroform	8260B	1.2		ug/L	16
006	B-3-17	Aqueous	Tetrachloroethene	8260B	16		ug/L	17
006	B-3-17	Aqueous	Trichloroethene	8260B	1.3		ug/L	17
007	B-3-25	Aqueous	Tetrachloroethene	8260B	28		ug/L	19
007	B-3-25	Aqueous	Trichloroethene	8260B	1.2		ug/L	19
008	B-6-32	Aqueous	Bromodichloromethane	8260B	3.4		ug/L	20
008	B-6-32	Aqueous	Chloroform	8260B	5.4		ug/L	20
008	B-6-32	Aqueous	Tetrachloroethene	8260B	2.9		ug/L	21
009	B-6-45	Aqueous	Bromodichloromethane	8260B	3.7		ug/L	22
009	B-6-45	Aqueous	Chloroform	8260B	6.9		ug/L	22
009	B-6-45	Aqueous	Dibromochloromethane	8260B	1.1		ug/L	22
009	B-6-45	Aqueous	Tetrachloroethene	8260B	1.4		ug/L	23
010	B-4-27	Aqueous	Bromodichloromethane	8260B	2.3		ug/L	24
010	B-4-27	Aqueous	Chloroform	8260B	4.0		ug/L	24
010	B-4-27	Aqueous	Tetrachloroethene	8260B	7.5		ug/L	25
010	B-4-27	Aqueous	Trichloroethene	8260B	1.2		ug/L	25
011	B-4-38	Aqueous	Bromodichloromethane	8260B	1.2		ug/L	26
011	B-4-38	Aqueous	Chloroform	8260B	2.1		ug/L	26
011	B-4-38	Aqueous	Tetrachloroethene	8260B	8.9		ug/L	27
011	B-4-38	Aqueous	Trichloroethene	8260B	2.7		ug/L	27
012	B-5-21	Aqueous	Bromodichloromethane	8260B	2.8		ug/L	28
012	B-5-21	Aqueous	Chloroform	8260B	4.2		ug/L	28
012	B-5-21	Aqueous	Tetrachloroethene	8260B	1.1		ug/L	29
013	B-5-31	Aqueous	Chloroform	8260B	1.3		ug/L	30
013	B-5-31	Aqueous	Tetrachloroethene	8260B	4.8		ug/L	31
013	B-5-31	Aqueous	Trichloroethene	8260B	1.5		ug/L	31
014	B-8-35	Aqueous	Bromodichloromethane	8260B	3.0		ug/L	32
014	B-8-35	Aqueous	Chloroform	8260B	6.1		ug/L	32
014	B-8-35	Aqueous	Tetrachloroethene	8260B	1.3		ug/L	33
015	B-8-48	Aqueous	cis-1,2-Dichloroethene	8260B	8.0		ug/L	34
015	B-8-48	Aqueous	trans-1,2-Dichloroethene	8260B	1.5		ug/L	34
015	B-8-48	Aqueous	Tetrachloroethene	8260B	4.5		ug/L	35

Executive Summary (Continued)

Lot Number: RL20025

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
015	B-8-48	Aqueous	Trichloroethene	8260B	5.2		ug/L	35
015	B-8-48	Aqueous	Vinyl chloride	8260B	2.3		ug/L	35
016	B-7-32	Aqueous	Bromodichloromethane	8260B	2.6		ug/L	36
016	B-7-32	Aqueous	Chloroform	8260B	5.2		ug/L	36
016	B-7-32	Aqueous	Tetrachloroethene	8260B	1.2		ug/L	37
017	B-7-44	Aqueous	Bromodichloromethane	8260B	1.2		ug/L	38
017	B-7-44	Aqueous	Chloroform	8260B	5.2		ug/L	38
017	B-7-44	Aqueous	cis-1,2-Dichloroethene	8260B	45		ug/L	38
017	B-7-44	Aqueous	Tetrachloroethene	8260B	30		ug/L	39
017	B-7-44	Aqueous	Trichloroethene	8260B	8.8		ug/L	39
018	B-9-32	Aqueous	Chloroform	8260B	1.6		ug/L	40
018	B-9-32	Aqueous	cis-1,2-Dichloroethene	8260B	1.7		ug/L	40
018	B-9-32	Aqueous	Tetrachloroethene	8260B	31		ug/L	41
018	B-9-32	Aqueous	Trichloroethene	8260B	6.6		ug/L	41
019	B-9-42	Aqueous	Chloroform	8260B	1.3		ug/L	42
019	B-9-42	Aqueous	Tetrachloroethene	8260B	1.1		ug/L	43
019	B-9-42	Aqueous	Trichloroethene	8260B	1.7		ug/L	43

(60 detections)

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-001**

Description: **B-1-17** Matrix: **Aqueous**

Date Sampled: **12/12/2016 1630** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 0957	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-001**

Description: **B-1-17** Matrix: **Aqueous**

Date Sampled: **12/12/2016 1630** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 0957	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**39**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.8**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-002**

Description: **B-1-26** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1050** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	12/22/2016 1416	TML		30046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	2
Acetonitrile	75-05-8	8260B	ND		20	ug/L	2
Acrolein	107-02-8	8260B	ND		20	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	ug/L	2
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	2
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	2
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	2
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	2
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	2
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	2
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	2
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	ug/L	2
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	2
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	2

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-002**

Description: **B-1-26** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1050** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	12/22/2016 1416	TML		30046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	2
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	2
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	2
Styrene	100-42-5	8260B	ND		5.0	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	2
Tetrachloroethene	**127-18-4**	**8260B**	**200**		**1.0**	**ug/L**	**2**
Toluene	108-88-3	8260B	ND		1.0	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	2
Trichloroethene	**79-01-6**	**8260B**	**13**		**1.0**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	2
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-003**

Description: **B-1-35** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1207** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/21/2016 1603	TML		29896
2	5030B	8260B	1	12/22/2016 1439	TML		30046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	2
Acetonitrile	75-05-8	8260B	ND		20	ug/L	2
Acrolein	107-02-8	8260B	ND		20	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	ug/L	2
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	2
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	2
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	2
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	2
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	2
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	2
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	2
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	ug/L	2
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	2
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	2

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-003**

Description: **B-1-35** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1207** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/21/2016 1603	TML		29896
2	5030B	8260B	1	12/22/2016 1439	TML		30046

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	2
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	2
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	2
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	2
Styrene	100-42-5	8260B	ND		5.0	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	2
Tetrachloroethene	**127-18-4**	**8260B**	**160**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	2
Trichloroethene	**79-01-6**	**8260B**	**16**		**1.0**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	2
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130		101	70-130
Bromofluorobenzene		87	70-130		98	70-130
Toluene-d8		89	70-130		99	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-004**

Description: **B-2-17** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1510** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1019	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-004**

Description: **B-2-17** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1510** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1019	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**68**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**2.4**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-005**

Description: **B-2-26** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1700** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/21/2016 1624	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		100	ug/L	1
Acetonitrile	75-05-8	8260B	ND		100	ug/L	1
Acrolein	107-02-8	8260B	ND		100	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		100	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		25	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		10	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		10	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		5.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		10	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**9.3**		**5.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		25	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		25	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		25	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		250	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		25	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		25	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-005**

Description: **B-2-26** Matrix: **Aqueous**

Date Sampled: **12/13/2016 1700** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/21/2016 1624	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		25	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	ug/L	1
Methylene chloride	75-09-2	8260B	ND		25	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		100	ug/L	1
Styrene	100-42-5	8260B	ND		25	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**560**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**46**		**5.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		10	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		10	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-006**

Description: **B-3-17** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1005** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1040	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-006**

Description: **B-3-17** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1005** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1040	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**16**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.3**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-007**

Description: **B-3-25** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1100** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1101	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-007**

Description: **B-3-25** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1100** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1101	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**28**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		88	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-008**

Description: **B-6-32** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1450** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1122	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**3.4**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**5.4**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-008**

Description: **B-6-32** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1450** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1122	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**2.9**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-009**

Description: **B-6-45** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1652** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1144	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**3.7**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**6.9**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	**124-48-1**	**8260B**	**1.1**		**1.0**	**ug/L**	**1**
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-009**

Description: **B-6-45** Matrix: **Aqueous**

Date Sampled: **12/14/2016 1652** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1144	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.4**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-010**

Description: **B-4-27** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1115** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1205	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**2.3**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**4.0**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-010**

Description: **B-4-27** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1115** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1205	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**7.5**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-011**

Description: **B-4-38** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1245** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1227	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**2.1**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-011**

Description: **B-4-38** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1245** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1227	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**8.9**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**2.7**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-012**

Description: **B-5-21** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1600** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1248	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**2.8**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**4.2**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-012**

Description: **B-5-21** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1600** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1248	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.1**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-013**

Description: **B-5-31** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1710** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1310	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.3**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-013**

Description: **B-5-31** Matrix: **Aqueous**

Date Sampled: **12/15/2016 1710** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1310	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**4.8**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.5**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-014**

Description: **B-8-35** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1125** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1332	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**3.0**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**6.1**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-014**

Description: **B-8-35** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1125** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1332	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.3**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-015**

Description: **B-8-48** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1315** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1353	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**8.0**		**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260B**	**1.5**		**1.0**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-015**

Description: **B-8-48** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1315** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1353	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**4.5**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**5.2**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**2.3**		**2.0**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-016**

Description: **B-7-32** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1635** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1415	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**2.6**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**5.2**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-016**

Description: **B-7-32** Matrix: **Aqueous**

Date Sampled: **12/16/2016 1635** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1415	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-017**

Description: **B-7-44** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1050** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1436	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	**75-27-4**	**8260B**	**1.2**		**1.0**	**ug/L**	**1**
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**5.2**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**45**		**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-017**

Description: **B-7-44** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1050** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1436	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**30**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**8.8**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-018**

Description: **B-9-32** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1615** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1458	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.6**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**1.7**		**1.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-018**

Description: **B-9-32** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1615** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1458	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**31**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**6.6**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		87	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-019**

Description: **B-9-42** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1755** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1519	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	**67-66-3**	**8260B**	**1.3**		**1.0**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		2.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Westinghouse Electric Company** Laboratory ID: **RL20025-019**

Description: **B-9-42** Matrix: **Aqueous**

Date Sampled: **12/19/2016 1755** Project Name: **Westinghouse Columbia**

Date Received: **12/20/2016** Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2016 1519	TML		29896

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**1.1**		**1.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**1.7**		**1.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		2.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		2.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Chain of Custody
and
Miscellaneous Documents

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 65744

Client: Westinghouse Columbia	Report to Contact: Cynthia Logsdon	Telephone No. / E-mail: 803-647-3171 / logsdocje@westinghouse.com	Quote No.
Address: 5801 Bluff Road	Sampler's Signature: X Charles K. Suddeth	Analysis (Attach list if more space is needed)	Page 1 of 2
City: Hopkins / State: SC / Zip Code: 29061	Printed Name: Charles K. Suddeth		RL20025
Project Name: Westinghouse Columbia			
Project No.	P.O. No.		Remarks / Cooler I.D.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Matrix: Soil	Matrix: Sed./Sludge	No of Containers by Preservative Type: Unpres.	HNO3	H2SO4	HCl	NaOH	ZnAc	Na2S2O3	TNVOCs	Remarks / Cooler I.D.
B-1-17	12/12/16	1630	G	X						3				X	
B-1-26	12/13/16	1050	G	X						3				X	
B-1-35	12/13/16	1207	G	X						3				X	
B-2-17	12/13/16	1510	G	X						3				X	
B-2-26	12/13/16	1700	G	X						3				X	
B-3-17	12/14/16	1005	G	X						3				X	
B-3-25	12/14/16	1100	G	X						3				X	
B-6-32	12/14/16	1450	G	X						3				X	
B-6-45	12/14/16	1652	G	X						3				X	
B-4-27	12/15/16	1115	G	X						3				X	

Turn Around Time Required (Prior lab approval required for expedited TAT.): X Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client X Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Charles K. Suddeth	12/20/16	1122	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by:	12/20/16	1122

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle) (Yes) No Ice Pack — Receipt Temp. 5.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 06-01-2014

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Chain of Custody Record

Number 65745

Client: Westinghouse Columbia	Report to Contact: Cynthia Logsdon	Telephone No. / E-mail: 803-647-3171 / logsdocje@Westinghouse.com
Address: 5801 Bluff Road	Sampler's Signature: X Charles K. Sudduth	Quote No.
City: Hopkins	State: SC	Zip Code: 29061
Project Name: Westinghouse Columbia	Printed Name: Charles K. Sudduth	Page 2 of 2
Project No.	P.O. No.	RL20025

Analysis (Attach list if more space is needed): TCL VOCs

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Soil/Solid/Waste/Sludge	Matrix: Other	No of Containers by Preservative Type: Unpres	HCl	H2SO4	HNO3	NaOH	Ascorbic Acid	Na2S2O3	TCL VOCs	Remarks / Cooler I.D.
B-4-38	12/15/16	1245	G	X						3				X	
B-5-21	12/15/16	1600	G	X						3				X	
~~B-5-32~~															
B-5-31	12/15/16	1710	G	X						3				X	
B-8-35	12/16/16	1125	G	X						3				X	
B-8-48	12/16/16	1315	G	X						3				X	
B-7-32	12/16/16	1635	G	X						3				X	
B-7-44	12/19/16	1050	G	X						3				X	
B-9-32	12/19/16	1615	G	X						3				X	
B-9-42	12/19/16	1755	G	X						3				X	

Turn Around Time Required (Prior lab approval required for expedited TAT.): [X] Standard [ ] Rush (Specify)

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Possible Hazard Identification: [ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Charles K. Sudduth	12/20/16	1122	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	12/20/16	1122

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp. 5.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 09-01-2014

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SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-07

Page 1 of 1
Effective Date: 11/29/2016
Expiry Date: 11/29/2021

Sample Receipt Checklist (SRC)

Client: Westinghouse Cooler Inspected by/date: [illegible] Lot #: R120625

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
pH strip ID:			Cl strip ID:
Cooler ID/Original (temperature upon receipt/Derived (corrected) temperature upon receipt: 15.2/5.4 °C / / °C / / °C / / °C			
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0.2 °C			
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (<0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) none were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: [illegible] Verified by: _____ Date: 12/20/16

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Westinghouse Electric Company
5801 Bluff Rd.
Hopkins, SC 29061
Attention: Cynthia Logsdon

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Lot Number:**SJ12061**

Date Completed:10/24/2017

10/26/2017 3:08 PM
Approved and released by:
Project Manager: Grant Wilton

The electronic signature above is the equivalent of a handwritten signature.

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Case Narrative
Westinghouse Electric Company
Lot Number: SJ12061

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

Westinghouse Electric Company

Lot Number: SJ12061

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	29	Aqueous	10/12/2017 1247	10/12/2017
002	30	Aqueous	10/12/2017 1117	10/12/2017
003	22	Aqueous	10/12/2017 1155	10/12/2017
004	18	Aqueous	10/12/2017 1225	10/12/2017
005	13R	Aqueous	10/12/2017 0938	10/12/2017
006	7	Aqueous	10/12/2017 1005	10/12/2017
007	10	Aqueous	10/12/2017 1030	10/12/2017
008	32	Aqueous	10/12/2017 1055	10/12/2017
009	33	Aqueous	10/12/2017 1335	10/12/2017
010	33DUP	Aqueous	10/12/2017 1335	10/12/2017
011	RW-2	Aqueous	10/12/2017 1409	10/12/2017
012	41	Aqueous	10/12/2017 1434	10/12/2017
013	44	Aqueous	10/12/2017 1502	10/12/2017
014	44 DUP	Aqueous	10/12/2017 1502	10/12/2017
015	TRIP BLANK	Aqueous	10/12/2017	10/12/2017

(15 samples)

Detection Summary

Westinghouse Electric Company

Lot Number: SJ12061

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	18	Aqueous	Chloroform	8260B	2.6		ug/L	21
004	18	Aqueous	Tetrachloroethene	8260B	4.0		ug/L	22
005	13R	Aqueous	cis-1,2-Dichloroethene	8260B	1.1		ug/L	26
005	13R	Aqueous	Tetrachloroethene	8260B	31		ug/L	27
005	13R	Aqueous	Trichloroethene	8260B	2.5		ug/L	27
006	7	Aqueous	Tetrachloroethene	8260B	1.7		ug/L	32
008	32	Aqueous	Tetrachloroethene	8260B	1.3		ug/L	42
009	33	Aqueous	Tetrachloroethene	8260B	560		ug/L	47
009	33	Aqueous	Trichloroethene	8260B	77		ug/L	47
010	33DUP	Aqueous	Tetrachloroethene	8260B	520		ug/L	51
010	33DUP	Aqueous	Trichloroethene	8260B	72		ug/L	51
011	RW-2	Aqueous	Tetrachloroethene	8260B	120		ug/L	56
011	RW-2	Aqueous	Trichloroethene	8260B	7.9		ug/L	56
012	41	Aqueous	Tetrachloroethene	8260B	190		ug/L	61
012	41	Aqueous	Trichloroethene	8260B	13		ug/L	61

(15 detections)

Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-001
Description: 29
Matrix: Aqueous
Date Sampled: 10/12/2017 1247
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1247	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1247	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1247	CAE		
1		(Water level)	1	10/12/2017 1247	CAE		
1		(Well Depth)	1	10/12/2017 1247	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.61			su	1
Specific Conductance @ 25° C - Field		120.1	688		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.7			° C	1
Water level depth from top of casing		No Method	11.83			feet	1
Well Depth		No Method	15.83			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-001

Description: 29 | Matrix: Aqueous

Date Sampled: 10/12/2017 1247 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0049	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-001
Description: 29
Matrix: Aqueous
Date Sampled: 10/12/2017 1247
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0049	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-001
Description: 29 | Matrix: Aqueous
Date Sampled: 10/12/2017 1247 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1518	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-001
Description: 29
Matrix: Aqueous
Date Sampled: 10/12/2017 1247
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1518	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		75	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		73	38-127
Phenol-d5		71	28-128
Terphenyl-d14		88	10-148
2,4,6-Tribromophenol		78	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-002
Description: 30
Matrix: Aqueous
Date Sampled: 10/12/2017 1117
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1117	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1117	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1117	CAE		
1		(Water level)	1	10/12/2017 1117	CAE		
1		(Well Depth)	1	10/12/2017 1117	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.56			su	1
Specific Conductance @ 25° C - Field		120.1	887		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.9			° C	1
Water level depth from top of casing		No Method	12.25			feet	1
Well Depth		No Method	17.00			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-002

Description: 30 | Matrix: Aqueous

Date Sampled: 10/12/2017 1117 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0112	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-002
Description: 30
Matrix: Aqueous
Date Sampled: 10/12/2017 1117
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0112	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
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P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-002
Description: 30 | Matrix: Aqueous
Date Sampled: 10/12/2017 1117 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1543	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
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P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-002
Description: 30 | Matrix: Aqueous
Date Sampled: 10/12/2017 1117 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1543	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		67	37-129
2-Fluorophenol		52	24-127
Nitrobenzene-d5		65	38-127
Phenol-d5		60	28-128
Terphenyl-d14		56	10-148
2,4,6-Tribromophenol		56	41-144

LOQ = Limit of Quantitation
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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-003
Description: 22
Matrix: Aqueous
Date Sampled: 10/12/2017 1155
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1155	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1155	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1155	CAE		
1		(Water level)	1	10/12/2017 1155	CAE		
1		(Well Depth)	1	10/12/2017 1155	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.78			su	1
Specific Conductance @ 25° C - Field		120.1	1910		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	25.8			° C	1
Water level depth from top of casing		No Method	11.48			feet	1
Well Depth		No Method	14.83			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-003

Description: 22 | Matrix: Aqueous

Date Sampled: 10/12/2017 1155 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0135	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-003
Description: 22
Matrix: Aqueous
Date Sampled: 10/12/2017 1155
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0135	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-003
Description: 22 | Matrix: Aqueous
Date Sampled: 10/12/2017 1155 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1608	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-003
Description: 22
Matrix: Aqueous
Date Sampled: 10/12/2017 1155
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1608	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		63	24-127
Nitrobenzene-d5		71	38-127
Phenol-d5		76	28-128
Terphenyl-d14		79	10-148
2,4,6-Tribromophenol		79	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-004
Description: 18
Matrix: Aqueous
Date Sampled: 10/12/2017 1225
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1225	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1225	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1225	CAE		
1		(Water level)	1	10/12/2017 1225	CAE		
1		(Well Depth)	1	10/12/2017 1225	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.71			su	1
Specific Conductance @ 25° C - Field		120.1	8020		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.7			° C	1
Water level depth from top of casing		No Method	12.23			feet	1
Well Depth		No Method	27.48			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-004

Description: 18 | Matrix: Aqueous

Date Sampled: 10/12/2017 1225 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0158	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	2.6		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-004
Description: 18
Matrix: Aqueous
Date Sampled: 10/12/2017 1225
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0158	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	4.0		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-004

Description: 18 | Matrix: Aqueous

Date Sampled: 10/12/2017 1225 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1633	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-004
Description: 18 | Matrix: Aqueous
Date Sampled: 10/12/2017 1225 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1633	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		79	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		76	38-127
Phenol-d5		74	28-128
Terphenyl-d14		59	10-148
2,4,6-Tribromophenol		80	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-005
Description: 13R
Matrix: Aqueous
Date Sampled: 10/12/2017 0938
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 0938	CAE		
1		(Specific Con) 120.1	1	10/12/2017 0938	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 0938	CAE		
1		(Water level)	1	10/12/2017 0938	CAE		
1		(Well Depth)	1	10/12/2017 0938	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.22			su	1
Specific Conductance @ 25° C - Field		120.1	728		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.5			° C	1
Water level depth from top of casing		No Method	12.83			feet	1
Well Depth		No Method	20.46			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-005
Description: 13R | Matrix: Aqueous
Date Sampled: 10/12/2017 0938 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0221	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1.1		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-005
Description: 13R
Matrix: Aqueous
Date Sampled: 10/12/2017 0938
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0221	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	31		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	2.5		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-005
Description: 13R | Matrix: Aqueous
Date Sampled: 10/12/2017 0938 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1659	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-005
Description: 13R | Matrix: Aqueous
Date Sampled: 10/12/2017 0938 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1659	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		78	37-129
2-Fluorophenol		62	24-127
Nitrobenzene-d5		77	38-127
Phenol-d5		70	28-128
Terphenyl-d14		90	10-148
2,4,6-Tribromophenol		80	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-006
Description: 7
Matrix: Aqueous
Date Sampled: 10/12/2017 1005
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1005	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1005	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1005	CAE		
1		(Water level)	1	10/12/2017 1005	CAE		
1		(Well Depth)	1	10/12/2017 1005	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	7.03			su	1
Specific Conductance @ 25° C - Field		120.1	3170		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.5			° C	1
Water level depth from top of casing		No Method	12.39			feet	1
Well Depth		No Method	20.29			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-006

Description: 7 | Matrix: Aqueous

Date Sampled: 10/12/2017 1005 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0244	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-006
Description: 7
Matrix: Aqueous
Date Sampled: 10/12/2017 1005
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0244	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	1.7		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-006

Description: 7 | Matrix: Aqueous

Date Sampled: 10/12/2017 1005 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1724	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-006
Description: 7 | Matrix: Aqueous
Date Sampled: 10/12/2017 1005 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1724	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		61	37-129
2-Fluorophenol		51	24-127
Nitrobenzene-d5		58	38-127
Phenol-d5		59	28-128
Terphenyl-d14		87	10-148
2,4,6-Tribromophenol		74	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-007
Description: 10
Matrix: Aqueous
Date Sampled: 10/12/2017 1030
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1030	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1030	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1030	CAE		
1		(Water level)	1	10/12/2017 1030	CAE		
1		(Well Depth)	1	10/12/2017 1030	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.08			su	1
Specific Conductance @ 25° C - Field		120.1	781		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.6			° C	1
Water level depth from top of casing		No Method	16.25			feet	1
Well Depth		No Method	22.47			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-007

Description: 10 | Matrix: Aqueous

Date Sampled: 10/12/2017 1030 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0308	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-007
Description: 10
Matrix: Aqueous
Date Sampled: 10/12/2017 1030
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0308	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-007
Description: 10 | Matrix: Aqueous
Date Sampled: 10/12/2017 1030 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1749	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-007
Description: 10 | Matrix: Aqueous
Date Sampled: 10/12/2017 1030 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1749	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		69	37-129
2-Fluorophenol		47	24-127
Nitrobenzene-d5		66	38-127
Phenol-d5		63	28-128
Terphenyl-d14		80	10-148
2,4,6-Tribromophenol		81	41-144

LOQ = Limit of Quantitation
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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-008
Description: 32
Matrix: Aqueous
Date Sampled: 10/12/2017 1055
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1055	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1055	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1055	CAE		
1		(Water level)	1	10/12/2017 1055	CAE		
1		(Well Depth)	1	10/12/2017 1055	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.92			su	1
Specific Conductance @ 25° C - Field		120.1	1770		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.4			° C	1
Water level depth from top of casing		No Method	19.65			feet	1
Well Depth		No Method	24.21			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-008

Description: 32 | Matrix: Aqueous

Date Sampled: 10/12/2017 1055 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0331	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-008
Description: 32
Matrix: Aqueous
Date Sampled: 10/12/2017 1055
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0331	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	1.3		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-008

Description: 32 | Matrix: Aqueous

Date Sampled: 10/12/2017 1055 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1813	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-008
Description: 32 | Matrix: Aqueous
Date Sampled: 10/12/2017 1055 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1813	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		73	38-127
Phenol-d5		73	28-128
Terphenyl-d14		88	10-148
2,4,6-Tribromophenol		75	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-009
Description: 33
Matrix: Aqueous
Date Sampled: 10/12/2017 1335
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1335	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1335	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1335	CAE		
1		(Water level)	1	10/12/2017 1335	CAE		
1		(Well Depth)	1	10/12/2017 1335	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.53			su	1
Specific Conductance @ 25° C - Field		120.1	176		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.7			° C	1
Water level depth from top of casing		No Method	15.92			feet	1
Well Depth		No Method	21.30			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-009

Description: 33 | Matrix: Aqueous

Date Sampled: 10/12/2017 1335 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 0553	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		100	ug/L	1
Acetonitrile	75-05-8	8260B	ND		250	ug/L	1
Acrolein	107-02-8	8260B	ND		100	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		100	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		25	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		25	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		5.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		10	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		25	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		250	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		25	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		25	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-009
Description: 33
Matrix: Aqueous
Date Sampled: 10/12/2017 1335
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 0553	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		25	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		100	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	560		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	77		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-009
Description: 33 | Matrix: Aqueous
Date Sampled: 10/12/2017 1335 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1838	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-009
Description: 33 | Matrix: Aqueous
Date Sampled: 10/12/2017 1335 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1838	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		69	24-127
Nitrobenzene-d5		72	38-127
Phenol-d5		76	28-128
Terphenyl-d14		73	10-148
2,4,6-Tribromophenol		78	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-010
Description: 33DUP | Matrix: Aqueous
Date Sampled: 10/12/2017 1335 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 0616	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		100	ug/L	1
Acetonitrile	75-05-8	8260B	ND		250	ug/L	1
Acrolein	107-02-8	8260B	ND		100	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		100	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		25	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		25	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		5.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		10	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		25	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		250	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		25	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		25	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-010
Description: 33DUP
Matrix: Aqueous
Date Sampled: 10/12/2017 1335
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 0616	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		25	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		100	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	520		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	72		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-010
Description: 33DUP
Matrix: Aqueous
Date Sampled: 10/12/2017 1335
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1903	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-010
Description: 33DUP | Matrix: Aqueous
Date Sampled: 10/12/2017 1335 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1903	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		69	37-129
2-Fluorophenol		61	24-127
Nitrobenzene-d5		67	38-127
Phenol-d5		70	28-128
Terphenyl-d14		63	10-148
2,4,6-Tribromophenol		70	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-011
Description: RW-2
Matrix: Aqueous
Date Sampled: 10/12/2017 1409
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1409	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1409	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1409	CAE		
1		(Water level)	1	10/12/2017 1409	CAE		
1		(Well Depth)	1	10/12/2017 1409	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	4.66			su	1
Specific Conductance @ 25° C - Field		120.1	233		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.7			° C	1
Water level depth from top of casing		No Method	18.66			feet	1
Well Depth		No Method	31.55			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-011
Description: RW-2
Matrix: Aqueous
Date Sampled: 10/12/2017 1409
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0355	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-011
Description: RW-2
Matrix: Aqueous
Date Sampled: 10/12/2017 1409
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0355	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	120		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	7.9		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-011
Description: RW-2
Matrix: Aqueous
Date Sampled: 10/12/2017 1409
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1927	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-011
Description: RW-2 | Matrix: Aqueous
Date Sampled: 10/12/2017 1409 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1927	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		76	37-129
2-Fluorophenol		61	24-127
Nitrobenzene-d5		73	38-127
Phenol-d5		75	28-128
Terphenyl-d14		80	10-148
2,4,6-Tribromophenol		78	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-012
Description: 41
Matrix: Aqueous
Date Sampled: 10/12/2017 1434
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1434	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1434	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1434	CAE		
1		(Water level)	1	10/12/2017 1434	CAE		
1		(Well Depth)	1	10/12/2017 1434	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.48			su	1
Specific Conductance @ 25° C - Field		120.1	600		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.5			° C	1
Water level depth from top of casing		No Method	16.08			feet	1
Well Depth		No Method	27.35			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-012
Description: 41 | Matrix: Aqueous
Date Sampled: 10/12/2017 1434 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0418	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-012
Description: 41
Matrix: Aqueous
Date Sampled: 10/12/2017 1434
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0418	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	190		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	13		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-012
Description: 41 | Matrix: Aqueous
Date Sampled: 10/12/2017 1434 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1951	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-012
Description: 41 | Matrix: Aqueous
Date Sampled: 10/12/2017 1434 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 1951	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		80	37-129
2-Fluorophenol		81	24-127
Nitrobenzene-d5		74	38-127
Phenol-d5		80	28-128
Terphenyl-d14		54	10-148
2,4,6-Tribromophenol		74	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-013
Description: 44
Matrix: Aqueous
Date Sampled: 10/12/2017 1502
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/12/2017 1502	CAE		
1		(Specific Con) 120.1	1	10/12/2017 1502	CAE		
1		(Temperature) SM 2550B-2010	1	10/12/2017 1502	CAE		
1		(Water level)	1	10/12/2017 1502	CAE		
1		(Well Depth)	1	10/12/2017 1502	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.23			su	1
Specific Conductance @ 25° C - Field		120.1	84.3		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.2			° C	1
Water level depth from top of casing		No Method	18.53			feet	1
Well Depth		No Method	30.19			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-013

Description: 44 | Matrix: Aqueous

Date Sampled: 10/12/2017 1502 | Project Name: Groundwater Monitoring -

Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0442	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-013
Description: 44
Matrix: Aqueous
Date Sampled: 10/12/2017 1502
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0442	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-013
Description: 44 | Matrix: Aqueous
Date Sampled: 10/12/2017 1502 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 2016	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-013
Description: 44 | Matrix: Aqueous
Date Sampled: 10/12/2017 1502 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 2016	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		82	37-129
2-Fluorophenol		77	24-127
Nitrobenzene-d5		79	38-127
Phenol-d5		90	28-128
Terphenyl-d14		76	10-148
2,4,6-Tribromophenol		76	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-014
Description: 44 DUP
Matrix: Aqueous
Date Sampled: 10/12/2017 1502
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0505	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ12061-014
Description: 44 DUP
Matrix: Aqueous
Date Sampled: 10/12/2017 1502
Project Name: Groundwater Monitoring -
Date Received: 10/12/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0505	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-014
Description: 44 DUP | Matrix: Aqueous
Date Sampled: 10/12/2017 1502 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 2040	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-014
Description: 44 DUP | Matrix: Aqueous
Date Sampled: 10/12/2017 1502 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/23/2017 2040	CMP2	10/17/2017 1535	54217

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		77	37-129
2-Fluorophenol		69	24-127
Nitrobenzene-d5		69	38-127
Phenol-d5		72	28-128
Terphenyl-d14		49	10-148
2,4,6-Tribromophenol		74	41-144

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-015
Description: TRIP BLANK | Matrix: Aqueous
Date Sampled: 10/12/2017 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/17/2017 2338	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ12061-015
Description: TRIP BLANK | Matrix: Aqueous
Date Sampled: 10/12/2017 | Project Name: Groundwater Monitoring -
Date Received: 10/12/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/17/2017 2338	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
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Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
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SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 76264

SJ12061

Client: WESTINGHOUSE | Report to Contact: | Telephone No. / E-mail: | Quote No.:

Address: | Sampler's Signature: X | Analysis (Attach list if more space is needed)

City: HOPKINS | State: SC | Zip Code: | Printed Name: CAL EASTER | Page ___ of ___

Project Name:

Project No. | P.O. No. | Lot

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab / Composite	Matrix: Aqueous	Soil	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc NA	VOC's	SVOC's	WELL SAMPLING	Remarks / Cooler I.D.
29	10/12/17	1247	G	✓			1			3			✓	✓	✓	
30		1117											✓	✓		
22		1155											✓	✓		
18		1225											✓	✓		
13R		0938											✓	✓		
7		1005											✓	✓		
10		1030											✓	✓		
32		1055											✓	✓		
33		1535											✓	✓		
33 DUP	↓	1335	↓	✓			↓			↓			✓	✓		

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☐ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification:
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time
1. Relinquished by	10/12/17	1550
2. Relinquished by		
3. Relinquished by		
4. Relinquished by		

	Date	Time
1. Received by		
2. Received by		
3. Received by		
4. Laboratory received by	10/12/17	1550

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle): (Yes) No Ice Pack
Receipt Temp. 5.1 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

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106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 76265

Client	Report to Contact	Telephone No. / E-mail	Quote No.
WESTINGHOUSE			
Address	Sampler's Signature	Analysis (Attach list if more space is needed)	Page 2 of 2
City: HOPKINS State: SC Zip Code:	X		
Project Name	Printed Name		
Project No.	P.O. No.		

SJ12061

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	GeoGrab Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	HCl/4	H2SO4	HNO3	NaOH	Ascorbic Acid	VOC's	SVOC's
RW-2	10/12/17	1409	G	✓			1			3			✓	✓
41		1434											✓	✓
44		1502											✓	✓
44 DUP		1502											✓	✓
TRIP BLANK										2			✓	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	10/12/17	1550	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	10/12/17	1550

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. 5.1 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 05-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-09

Page 1 of 1
Effective Date: 07/28/2017
Expiry Date: 07/28/2022

Sample Receipt Checklist (SRC)

Client: Westinghouse Cooler Inspected by/date: ECL / 10/12/17 Lot #: SJ 12061

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other

Yes ☐	No ☐		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: _____ Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

15.1/15.1 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C

Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: ECL Date: 10/12/17

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

AECOM
101 Research Drive
Columbia, SC 29203
Attention: Chuck Suddeth

Project Name: Westinghouse Columbia Fuel Fabrication Facility

Project Number: 60528361

Lot Number:**SJ13028**

Date Completed:10/19/2017

N. Saikaly

10/30/2017 2:32 PM
Approved and released by:
Project Manager: Nisreen Saikaly

The electronic signature above is the equivalent of a handwritten signature.

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
AECOM
Lot Number: SJ13028

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

AECOM

Lot Number: SJ13028

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	B-18-18	Aqueous	10/11/2017 1150	10/13/2017
002	B-19-39	Aqueous	10/11/2017 1335	10/13/2017
003	B-19-28	Aqueous	10/11/2017 1425	10/13/2017
004	B-20-26	Aqueous	10/12/2017 1135	10/13/2017
005	B-20-16.5	Aqueous	10/12/2017 1333	10/13/2017
006	B-14-24	Aqueous	10/12/2017 1500	10/13/2017
007	B-11-34	Aqueous	10/12/2017 1630	10/13/2017
008	B-13-23	Aqueous	10/12/2017 1730	10/13/2017
009	B-13-17	Aqueous	10/12/2017 1810	10/13/2017
010	Trip Blank	Aqueous	10/10/2017 1200	10/13/2017

(10 samples)

Detection Summary

AECOM

Lot Number: SJ13028

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	B-19-39	Aqueous	2-Butanone (MEK)	8260B	2.1	J	ug/L	7
002	B-19-39	Aqueous	Tetrachloroethene	8260B	6.7		ug/L	7
002	B-19-39	Aqueous	Toluene	8260B	0.44	J	ug/L	7
002	B-19-39	Aqueous	Trichloroethene	8260B	1.3	J	ug/L	8
005	B-20-16.5	Aqueous	Acetone	8260B	3.7	J	ug/L	13
006	B-14-24	Aqueous	cis-1,2-Dichloroethene	8260B	1.0	J	ug/L	15
006	B-14-24	Aqueous	Tetrachloroethene	8260B	13		ug/L	15
006	B-14-24	Aqueous	Trichloroethene	8260B	12		ug/L	16
007	B-11-34	Aqueous	Tetrachloroethene	8260B	3.3	J	ug/L	17
007	B-11-34	Aqueous	Trichloroethene	8260B	0.62	J	ug/L	18
008	B-13-23	Aqueous	Tetrachloroethene	8260B	1.2	J	ug/L	19

(11 detections)

Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-18-18
Date Sampled: 10/11/2017 1150
Date Received: 10/13/2017

Laboratory ID: SJ13028-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1411	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-001
Description: B-18-18
Matrix: Aqueous
Date Sampled: 10/11/2017 1150
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1411	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-19-39
Date Sampled: 10/11/2017 1335
Date Received: 10/13/2017

Laboratory ID: SJ13028-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1434	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	2.1	J	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	6.7		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	0.44	J	5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-002
Description: B-19-39
Matrix: Aqueous
Date Sampled: 10/11/2017 1335
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1434	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	1.3	J	5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-19-28
Date Sampled: 10/11/2017 1425
Date Received: 10/13/2017

Laboratory ID: SJ13028-003
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1457	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-003
Description: B-19-28
Matrix: Aqueous
Date Sampled: 10/11/2017 1425
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1457	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-20-26
Date Sampled: 10/12/2017 1135
Date Received: 10/13/2017

Laboratory ID: SJ13028-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0101	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-20-26
Date Sampled: 10/12/2017 1135
Date Received: 10/13/2017

Laboratory ID: SJ13028-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0101	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-20-16.5
Date Sampled: 10/12/2017 1333
Date Received: 10/13/2017

Laboratory ID: SJ13028-005
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0124	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	3.7	J	20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-005
Description: B-20-16.5
Matrix: Aqueous
Date Sampled: 10/12/2017 1333
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0124	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-14-24
Date Sampled: 10/12/2017 1500
Date Received: 10/13/2017

Laboratory ID: SJ13028-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0147	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1.0	J	5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	13		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-006
Description: B-14-24
Matrix: Aqueous
Date Sampled: 10/12/2017 1500
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0147	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	12		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-11-34
Date Sampled: 10/12/2017 1630
Date Received: 10/13/2017

Laboratory ID: SJ13028-007
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0210	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	3.3	J	5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-11-34
Date Sampled: 10/12/2017 1630
Date Received: 10/13/2017

Laboratory ID: SJ13028-007
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0210	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	0.62	J	5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-13-23
Date Sampled: 10/12/2017 1730
Date Received: 10/13/2017

Laboratory ID: SJ13028-008
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0233	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	1.2	J	5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-008
Description: B-13-23
Matrix: Aqueous
Date Sampled: 10/12/2017 1730
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0233	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: B-13-17
Date Sampled: 10/12/2017 1810
Date Received: 10/13/2017

Laboratory ID: SJ13028-009
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0256	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: SJ13028-009
Description: B-13-17
Matrix: Aqueous
Date Sampled: 10/12/2017 1810
Date Received: 10/13/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0256	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: Trip Blank
Date Sampled: 10/10/2017 1200
Date Received: 10/13/2017

Laboratory ID: SJ13028-010
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0038	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		20	2.0	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.40	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.49	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.40	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.53	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.40	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.40	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: Trip Blank
Date Sampled: 10/10/2017 1200
Date Received: 10/13/2017

Laboratory ID: SJ13028-010
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/19/2017 0038	ECP		54546

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ54419-001
Batch: 54419
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	2.0	ug/L	10/18/2017 1039
Benzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Bromodichloromethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Bromoform	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Bromomethane (Methyl bromide)	ND		1	5.0	0.49	ug/L	10/18/2017 1039
2-Butanone (MEK)	ND		1	10	2.0	ug/L	10/18/2017 1039
Carbon disulfide	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Carbon tetrachloride	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Chlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Chloroethane	ND		1	5.0	0.53	ug/L	10/18/2017 1039
Chloroform	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Chloromethane (Methyl chloride)	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Cyclohexane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Dibromochloromethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,2-Dibromoethane (EDB)	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,2-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,3-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,4-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Dichlorodifluoromethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,1-Dichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,1-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
cis-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
trans-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,2-Dichloropropane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
cis-1,3-Dichloropropene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
trans-1,3-Dichloropropene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Ethylbenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
2-Hexanone	ND		1	10	2.0	ug/L	10/18/2017 1039
Isopropylbenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Methyl acetate	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/18/2017 1039
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	10/18/2017 1039
Methylcyclohexane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Methylene chloride	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Styrene	ND		1	5.0	0.41	ug/L	10/18/2017 1039
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Tetrachloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Toluene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.42	ug/L	10/18/2017 1039
1,2,4-Trichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,1,1-Trichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039
1,1,2-Trichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 1039

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ54419-001
Batch: 54419
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 1039
Trichlorofluoromethane	ND		1	5.0	0.50	ug/L	10/18/2017 1039
Vinyl chloride	ND		1	2.0	0.40	ug/L	10/18/2017 1039
Xylenes (total)	ND		1	5.0	0.40	ug/L	10/18/2017 1039

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ54419-002
Batch: 54419
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	98		1	98	60-140	10/18/2017 0947
Benzene	50	51		1	101	70-130	10/18/2017 0947
Bromodichloromethane	50	55		1	110	70-130	10/18/2017 0947
Bromoform	50	53		1	106	70-130	10/18/2017 0947
Bromomethane (Methyl bromide)	50	50		1	100	70-130	10/18/2017 0947
2-Butanone (MEK)	100	92		1	92	70-130	10/18/2017 0947
Carbon disulfide	50	44		1	89	70-130	10/18/2017 0947
Carbon tetrachloride	50	50		1	101	70-130	10/18/2017 0947
Chlorobenzene	50	52		1	104	70-130	10/18/2017 0947
Chloroethane	50	49		1	98	70-130	10/18/2017 0947
Chloroform	50	53		1	105	70-130	10/18/2017 0947
Chloromethane (Methyl chloride)	50	61		1	121	60-140	10/18/2017 0947
Cyclohexane	50	52		1	105	70-130	10/18/2017 0947
1,2-Dibromo-3-chloropropane (DBCP)	50	55		1	109	70-130	10/18/2017 0947
Dibromochloromethane	50	54		1	108	70-130	10/18/2017 0947
1,2-Dibromoethane (EDB)	50	51		1	103	70-130	10/18/2017 0947
1,2-Dichlorobenzene	50	52		1	105	70-130	10/18/2017 0947
1,3-Dichlorobenzene	50	52		1	103	70-130	10/18/2017 0947
1,4-Dichlorobenzene	50	52		1	104	70-130	10/18/2017 0947
Dichlorodifluoromethane	50	69		1	138	60-140	10/18/2017 0947
1,1-Dichloroethane	50	51		1	102	70-130	10/18/2017 0947
1,2-Dichloroethane	50	58		1	116	70-130	10/18/2017 0947
1,1-Dichloroethene	50	48		1	97	70-130	10/18/2017 0947
cis-1,2-Dichloroethene	50	47		1	94	70-130	10/18/2017 0947
trans-1,2-Dichloroethene	50	49		1	97	70-130	10/18/2017 0947
1,2-Dichloropropane	50	53		1	106	70-130	10/18/2017 0947
cis-1,3-Dichloropropene	50	53		1	105	70-130	10/18/2017 0947
trans-1,3-Dichloropropene	50	52		1	105	70-130	10/18/2017 0947
Ethylbenzene	50	51		1	103	70-130	10/18/2017 0947
2-Hexanone	100	120		1	116	70-130	10/18/2017 0947
Isopropylbenzene	50	53		1	107	70-130	10/18/2017 0947
Methyl acetate	50	51		1	101	70-130	10/18/2017 0947
Methyl tertiary butyl ether (MTBE)	50	44		1	89	70-130	10/18/2017 0947
4-Methyl-2-pentanone	100	110		1	114	70-130	10/18/2017 0947
Methylcyclohexane	50	47		1	95	70-130	10/18/2017 0947
Methylene chloride	50	43		1	87	70-130	10/18/2017 0947
Styrene	50	53		1	105	70-130	10/18/2017 0947
1,1,2,2-Tetrachloroethane	50	55		1	110	70-130	10/18/2017 0947
Tetrachloroethene	50	50		1	100	70-130	10/18/2017 0947
Toluene	50	52		1	104	70-130	10/18/2017 0947
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	50		1	99	70-130	10/18/2017 0947
1,2,4-Trichlorobenzene	50	48		1	96	70-130	10/18/2017 0947
1,1,1-Trichloroethane	50	52		1	104	70-130	10/18/2017 0947
1,1,2-Trichloroethane	50	51		1	102	70-130	10/18/2017 0947

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ54419-002
Batch: 54419
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	47		1	95	70-130	10/18/2017 0947
Trichlorofluoromethane	50	50		1	101	70-130	10/18/2017 0947
Vinyl chloride	50	54		1	108	70-130	10/18/2017 0947
Xylenes (total)	100	100		1	101	70-130	10/18/2017 0947

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ54546-001
Batch: 54546
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	2.0	ug/L	10/18/2017 2335
Benzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Bromodichloromethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Bromoform	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Bromomethane (Methyl bromide)	ND		1	5.0	0.49	ug/L	10/18/2017 2335
2-Butanone (MEK)	ND		1	10	2.0	ug/L	10/18/2017 2335
Carbon disulfide	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Carbon tetrachloride	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Chlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Chloroethane	ND		1	5.0	0.53	ug/L	10/18/2017 2335
Chloroform	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Chloromethane (Methyl chloride)	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Cyclohexane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Dibromochloromethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,2-Dibromoethane (EDB)	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,2-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,3-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,4-Dichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Dichlorodifluoromethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,1-Dichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,1-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
cis-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
trans-1,2-Dichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,2-Dichloropropane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
cis-1,3-Dichloropropene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
trans-1,3-Dichloropropene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Ethylbenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
2-Hexanone	ND		1	10	2.0	ug/L	10/18/2017 2335
Isopropylbenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Methyl acetate	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/18/2017 2335
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	10/18/2017 2335
Methylcyclohexane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Methylene chloride	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Styrene	ND		1	5.0	0.41	ug/L	10/18/2017 2335
1,1,2,2-Tetrachloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Tetrachloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Toluene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	0.42	ug/L	10/18/2017 2335
1,2,4-Trichlorobenzene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,1,1-Trichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335
1,1,2-Trichloroethane	ND		1	5.0	0.40	ug/L	10/18/2017 2335

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ54546-001
Batch: 54546
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	0.40	ug/L	10/18/2017 2335
Trichlorofluoromethane	ND		1	5.0	0.50	ug/L	10/18/2017 2335
Vinyl chloride	ND		1	2.0	0.40	ug/L	10/18/2017 2335
Xylenes (total)	ND		1	5.0	0.40	ug/L	10/18/2017 2335

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ54546-002
Batch: 54546
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	115	60-140	10/18/2017 2206
Benzene	50	52		1	103	70-130	10/18/2017 2206
Bromodichloromethane	50	57		1	114	70-130	10/18/2017 2206
Bromoform	50	52		1	104	70-130	10/18/2017 2206
Bromomethane (Methyl bromide)	50	50		1	101	70-130	10/18/2017 2206
2-Butanone (MEK)	100	96		1	96	70-130	10/18/2017 2206
Carbon disulfide	50	47		1	94	70-130	10/18/2017 2206
Carbon tetrachloride	50	53		1	106	70-130	10/18/2017 2206
Chlorobenzene	50	52		1	104	70-130	10/18/2017 2206
Chloroethane	50	51		1	102	70-130	10/18/2017 2206
Chloroform	50	53		1	107	70-130	10/18/2017 2206
Chloromethane (Methyl chloride)	50	61		1	122	60-140	10/18/2017 2206
Cyclohexane	50	57		1	115	70-130	10/18/2017 2206
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	94	70-130	10/18/2017 2206
Dibromochloromethane	50	54		1	109	70-130	10/18/2017 2206
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	10/18/2017 2206
1,2-Dichlorobenzene	50	53		1	107	70-130	10/18/2017 2206
1,3-Dichlorobenzene	50	53		1	105	70-130	10/18/2017 2206
1,4-Dichlorobenzene	50	53		1	105	70-130	10/18/2017 2206
Dichlorodifluoromethane	50	74	N	1	149	60-140	10/18/2017 2206
1,1-Dichloroethane	50	54		1	109	70-130	10/18/2017 2206
1,2-Dichloroethane	50	59		1	118	70-130	10/18/2017 2206
1,1-Dichloroethene	50	51		1	101	70-130	10/18/2017 2206
cis-1,2-Dichloroethene	50	49		1	99	70-130	10/18/2017 2206
trans-1,2-Dichloroethene	50	50		1	100	70-130	10/18/2017 2206
1,2-Dichloropropane	50	55		1	111	70-130	10/18/2017 2206
cis-1,3-Dichloropropene	50	54		1	108	70-130	10/18/2017 2206
trans-1,3-Dichloropropene	50	54		1	107	70-130	10/18/2017 2206
Ethylbenzene	50	51		1	102	70-130	10/18/2017 2206
2-Hexanone	100	120		1	118	70-130	10/18/2017 2206
Isopropylbenzene	50	53		1	106	70-130	10/18/2017 2206
Methyl acetate	50	54		1	108	70-130	10/18/2017 2206
Methyl tertiary butyl ether (MTBE)	50	47		1	93	70-130	10/18/2017 2206
4-Methyl-2-pentanone	100	120		1	117	70-130	10/18/2017 2206
Methylcyclohexane	50	51		1	101	70-130	10/18/2017 2206
Methylene chloride	50	45		1	90	70-130	10/18/2017 2206
Styrene	50	52		1	105	70-130	10/18/2017 2206
1,1,2,2-Tetrachloroethane	50	56		1	111	70-130	10/18/2017 2206
Tetrachloroethene	50	50		1	100	70-130	10/18/2017 2206
Toluene	50	53		1	106	70-130	10/18/2017 2206
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	107	70-130	10/18/2017 2206
1,2,4-Trichlorobenzene	50	47		1	95	70-130	10/18/2017 2206
1,1,1-Trichloroethane	50	54		1	108	70-130	10/18/2017 2206
1,1,2-Trichloroethane	50	52		1	103	70-130	10/18/2017 2206

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ54546-002
Batch: 54546
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	49		1	97	70-130	10/18/2017 2206
Trichlorofluoromethane	50	56		1	111	70-130	10/18/2017 2206
Vinyl chloride	50	59		1	119	70-130	10/18/2017 2206
Xylenes (total)	100	100		1	102	70-130	10/18/2017 2206

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
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SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 77650

Client: ~~AMEC~~ AECOM	Report to Contact: Chuck Suddeth	Telephone No. / E-mail: 803-254-4400 / charles.suddeth@aecom.com	Quote No.
Address: 101 Research Drive	Sampler's Signature: X Charles K Suddeth	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Columbia / State: SC / Zip Code: 29203	Printed Name: Charles K Suddeth		
Project Name: Westinghouse Columbia Fuel Fabrication Facility			
Project No.: 60528361	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Matrix: Soil	Matrix: Other Aqueous	Matrix: Other Non-Aqueous	Preservative: Unpres.	Preservative: H2SO4	Preservative: HNO3	Preservative: HCl	Preservative: NaOH	Preservative: ZnAc/NaOH	Preservative: Other	TCL VOCs	Remarks / Cooler I.D.
B-18-18	10/11/17	1150	G	X							3				X	SJ13028
B-19-39	10/11/17	1335	G	X							3				X	
B-19-28	10/11/17	1425	G	X							3				X	
B-20-26	10/12/17	1135	G	X							3				X	
B-20-16.5	10/12/17	1333	G	X							3				X	
B-14-24	10/12/17	1500	G	X							3				X	
B-11-34	10/12/17	1630	G	X							3				X	
B-13-23	10/12/17	1730	G	X							3				X	
B-13-17	10/12/17	1810	G	X							3				X	
Trip Blank	10/10/17	1200	G	X							2				X	

Turn Around Time Required (Prior lab approval required for expedited TAT.)
X Standard Rush (Specify)

Sample Disposal
☐ Return to Client X Disposal by Lab

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Charles K Suddeth	10/13/17	1058	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	10-13-17	1058

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 5.5 °C
TB

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: ME001SC-09

Page 1 of 1
Effective Date: 07/28/2017
Expiry Date: 07/28/2022

Sample Receipt Checklist (SRC)

Client: AECOM Cooler Inspected by/date: SBE /10/13/17 Lot #: SJ13028

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: Cl strip ID:
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
5.5/5.5 °C / / °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☑	No ☐	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) 002(2) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____
Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: SBE Date: 10/13/17

Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Westinghouse Electric Company
5801 Bluff Rd.
Hopkins, SC 29061
Attention: Cynthia Logsdon

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Lot Number:**SJ13031**

Date Completed:10/25/2017

10/27/2017 12:21 PM
Approved and released by:
Project Manager: Grant Wilton

Shealy Environmental Services, Inc.
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Case Narrative
Westinghouse Electric Company
Lot Number: SJ13031

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

Westinghouse Electric Company

Lot Number: SJ13031

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	39	Aqueous	10/13/2017 0957	10/13/2017
002	43	Aqueous	10/13/2017 1019	10/13/2017
003	15	Aqueous	10/13/2017 1044	10/13/2017
004	15 DUP	Aqueous	10/13/2017 1044	10/13/2017
005	16	Aqueous	10/13/2017 1115	10/13/2017
006	26	Aqueous	10/13/2017 1321	10/13/2017
007	48	Aqueous	10/13/2017 1245	10/13/2017
008	47	Aqueous	10/13/2017 1204	10/13/2017
009	24	Aqueous	10/13/2017 1346	10/13/2017

(9 samples)

Detection Summary

Westinghouse Electric Company

Lot Number: SJ13031

Project Name: Groundwater Monitoring - 3rd Quarter 2017

Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	39	Aqueous	Tetrachloroethene	8260B	360		ug/L	7
003	15	Aqueous	cis-1,2-Dichloroethene	8260B	2.4		ug/L	16
003	15	Aqueous	Tetrachloroethene	8260B	26		ug/L	17
003	15	Aqueous	Trichloroethene	8260B	3.2		ug/L	17
004	15 DUP	Aqueous	cis-1,2-Dichloroethene	8260B	2.6		ug/L	20
004	15 DUP	Aqueous	Tetrachloroethene	8260B	30		ug/L	21
004	15 DUP	Aqueous	Trichloroethene	8260B	3.6		ug/L	21
005	16	Aqueous	cis-1,2-Dichloroethene	8260B	2.6		ug/L	25
005	16	Aqueous	Tetrachloroethene	8260B	12		ug/L	26
005	16	Aqueous	Trichloroethene	8260B	3.0		ug/L	26
006	26	Aqueous	cis-1,2-Dichloroethene	8260B	4.1		ug/L	30
007	48	Aqueous	cis-1,2-Dichloroethene	8260B	3.3		ug/L	35
007	48	Aqueous	Tetrachloroethene	8260B	170		ug/L	36
007	48	Aqueous	Trichloroethene	8260B	7.9		ug/L	36
008	47	Aqueous	Tetrachloroethene	8260B	1.8		ug/L	41

(15 detections)

Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-001
Description: 39
Matrix: Aqueous
Date Sampled: 10/13/2017 0957
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 0957	CAE		
1		(Specific Con) 120.1	1	10/13/2017 0957	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 0957	CAE		
1		(Water level)	1	10/13/2017 0957	CAE		
1		(Well Depth)	1	10/13/2017 0957	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	4.99			su	1
Specific Conductance @ 25° C - Field		120.1	1240		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.4			° C	1
Water level depth from top of casing		No Method	16.23			feet	1
Well Depth		No Method	25.46			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-001
Description: 39
Matrix: Aqueous
Date Sampled: 10/13/2017 0957
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 1717	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		100	ug/L	1
Acetonitrile	75-05-8	8260B	ND		250	ug/L	1
Acrolein	107-02-8	8260B	ND		100	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		100	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		10	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		50	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		25	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		10	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		25	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		5.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		10	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		10	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		5.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		5.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		10	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		25	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		50	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		250	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		25	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		25	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-001
Description: 39
Matrix: Aqueous
Date Sampled: 10/13/2017 0957
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/18/2017 1717	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		25	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		50	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		100	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	360		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		5.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		25	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-001
Description: 39 | Matrix: Aqueous
Date Sampled: 10/13/2017 0957 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1637	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-001
Description: 39 | Matrix: Aqueous
Date Sampled: 10/13/2017 0957 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1637	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		57	24-127
Nitrobenzene-d5		66	38-127
Phenol-d5		62	28-128
Terphenyl-d14		77	10-148
2,4,6-Tribromophenol		64	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-002
Description: 43
Matrix: Aqueous
Date Sampled: 10/13/2017 1019
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1019	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1019	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1019	CAE		
1		(Water level)	1	10/13/2017 1019	CAE		
1		(Well Depth)	1	10/13/2017 1019	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.37			su	1
Specific Conductance @ 25° C - Field		120.1	86.2		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.4			° C	1
Water level depth from top of casing		No Method	15.46			feet	1
Well Depth		No Method	24.47			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-002

Description: 43 | Matrix: Aqueous

Date Sampled: 10/13/2017 1019 | Project Name: Groundwater Monitoring -

Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0529	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-002
Description: 43
Matrix: Aqueous
Date Sampled: 10/13/2017 1019
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 0529	BWS		54360

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-002
Description: 43
Matrix: Aqueous
Date Sampled: 10/13/2017 1019
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1702	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-002
Description: 43 | Matrix: Aqueous
Date Sampled: 10/13/2017 1019 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1702	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		73	37-129
2-Fluorophenol		63	24-127
Nitrobenzene-d5		68	38-127
Phenol-d5		67	28-128
Terphenyl-d14		68	10-148
2,4,6-Tribromophenol		65	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-003
Description: 15
Matrix: Aqueous
Date Sampled: 10/13/2017 1044
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1044	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1044	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1044	CAE		
1		(Water level)	1	10/13/2017 1044	CAE		
1		(Well Depth)	1	10/13/2017 1044	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.14			su	1
Specific Conductance @ 25° C - Field		120.1	484		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.5			° C	1
Water level depth from top of casing		No Method	12.90			feet	1
Well Depth		No Method	22.15			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-003
Description: 15 | Matrix: Aqueous
Date Sampled: 10/13/2017 1044 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1130	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.4		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-003
Description: 15
Matrix: Aqueous
Date Sampled: 10/13/2017 1044
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1130	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	26		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	3.2		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-003
Description: 15 | Matrix: Aqueous
Date Sampled: 10/13/2017 1044 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1726	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-003
Description: 15
Matrix: Aqueous
Date Sampled: 10/13/2017 1044
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1726	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		63	37-129
2-Fluorophenol		57	24-127
Nitrobenzene-d5		58	38-127
Phenol-d5		54	28-128
Terphenyl-d14		74	10-148
2,4,6-Tribromophenol		63	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-004
Description: 15 DUP
Matrix: Aqueous
Date Sampled: 10/13/2017 1044
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1153	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.6		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-004
Description: 15 DUP
Matrix: Aqueous
Date Sampled: 10/13/2017 1044
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1153	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	30		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	3.6		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-004
Description: 15 DUP | Matrix: Aqueous
Date Sampled: 10/13/2017 1044 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1751	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-004
Description: 15 DUP | Matrix: Aqueous
Date Sampled: 10/13/2017 1044 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1751	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		73	37-129
2-Fluorophenol		60	24-127
Nitrobenzene-d5		68	38-127
Phenol-d5		60	28-128
Terphenyl-d14		75	10-148
2,4,6-Tribromophenol		61	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-005
Description: 16
Matrix: Aqueous
Date Sampled: 10/13/2017 1115
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1115	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1115	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1115	CAE		
1		(Water level)	1	10/13/2017 1115	CAE		
1		(Well Depth)	1	10/13/2017 1115	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	6.11			su	1
Specific Conductance @ 25° C - Field		120.1	352		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.9			° C	1
Water level depth from top of casing		No Method	3.94			feet	1
Well Depth		No Method	12.89			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-005
Description: 16 | Matrix: Aqueous
Date Sampled: 10/13/2017 1115 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1215	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	2.6		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-005
Description: 16
Matrix: Aqueous
Date Sampled: 10/13/2017 1115
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1215	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	12		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	3.0		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-005
Description: 16
Matrix: Aqueous
Date Sampled: 10/13/2017 1115
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1815	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-005
Description: 16 | Matrix: Aqueous
Date Sampled: 10/13/2017 1115 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1815	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		73	37-129
2-Fluorophenol		62	24-127
Nitrobenzene-d5		67	38-127
Phenol-d5		54	28-128
Terphenyl-d14		81	10-148
2,4,6-Tribromophenol		69	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-006
Description: 26
Matrix: Aqueous
Date Sampled: 10/13/2017 1321
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1321	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1321	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1321	CAE		
1		(Water level)	1	10/13/2017 1321	CAE		
1		(Well Depth)	1	10/13/2017 1321	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.74			su	1
Specific Conductance @ 25° C - Field		120.1	185		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	19.3			° C	1
Water level depth from top of casing		No Method	26.25			feet	1
Well Depth		No Method	32.44			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-006
Description: 26 | Matrix: Aqueous
Date Sampled: 10/13/2017 1321 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1238	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	4.1		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-006
Description: 26
Matrix: Aqueous
Date Sampled: 10/13/2017 1321
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1238	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-006

Description: 26 | Matrix: Aqueous

Date Sampled: 10/13/2017 1321 | Project Name: Groundwater Monitoring -

Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1840	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-006
Description: 26 | Matrix: Aqueous
Date Sampled: 10/13/2017 1321 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1840	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		73	37-129
2-Fluorophenol		64	24-127
Nitrobenzene-d5		69	38-127
Phenol-d5		61	28-128
Terphenyl-d14		56	10-148
2,4,6-Tribromophenol		66	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-007
Description: 48
Matrix: Aqueous
Date Sampled: 10/13/2017 1245
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1245	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1245	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1245	CAE		
1		(Water level)	1	10/13/2017 1245	CAE		
1		(Well Depth)	1	10/13/2017 1245	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.56			su	1
Specific Conductance @ 25° C - Field		120.1	136		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.3			° C	1
Water level depth from top of casing		No Method	27.31			feet	1
Well Depth		No Method	44.30			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-007
Description: 48 | Matrix: Aqueous
Date Sampled: 10/13/2017 1245 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1302	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	3.3		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-007
Description: 48
Matrix: Aqueous
Date Sampled: 10/13/2017 1245
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1302	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	170		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	7.9		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		99	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-007
Description: 48 | Matrix: Aqueous
Date Sampled: 10/13/2017 1245 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1904	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-007
Description: 48 | Matrix: Aqueous
Date Sampled: 10/13/2017 1245 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1904	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		72	37-129
2-Fluorophenol		66	24-127
Nitrobenzene-d5		69	38-127
Phenol-d5		65	28-128
Terphenyl-d14		78	10-148
2,4,6-Tribromophenol		69	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-008
Description: 47
Matrix: Aqueous
Date Sampled: 10/13/2017 1204
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1204	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1204	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1204	CAE		
1		(Water level)	1	10/13/2017 1204	CAE		
1		(Well Depth)	1	10/13/2017 1204	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.89			su	1
Specific Conductance @ 25° C - Field		120.1	687		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.1			° C	1
Water level depth from top of casing		No Method	26.95			feet	1
Well Depth		No Method	47.10			feet	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-008
Description: 47 | Matrix: Aqueous
Date Sampled: 10/13/2017 1204 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1325	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-008
Description: 47
Matrix: Aqueous
Date Sampled: 10/13/2017 1204
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1325	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	1.8		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-008
Description: 47 | Matrix: Aqueous
Date Sampled: 10/13/2017 1204 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1928	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-008
Description: 47 | Matrix: Aqueous
Date Sampled: 10/13/2017 1204 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1928	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		66	37-129
2-Fluorophenol		43	24-127
Nitrobenzene-d5		60	38-127
Phenol-d5		54	28-128
Terphenyl-d14		47	10-148
2,4,6-Tribromophenol		59	41-144

LOQ = Limit of Quantitation
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Inorganic non-metals

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-009
Description: 24
Matrix: Aqueous
Date Sampled: 10/13/2017 1346
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	10/13/2017 1346	CAE		
1		(Specific Con) 120.1	1	10/13/2017 1346	CAE		
1		(Temperature) SM 2550B-2010	1	10/13/2017 1346	CAE		
1		(Water level)	1	10/13/2017 1346	CAE		
1		(Well Depth)	1	10/13/2017 1346	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
pH - Field		SM 4500-H B	5.46			su	1
Specific Conductance @ 25° C - Field		120.1	59.4		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.4			° C	1
Water level depth from top of casing		No Method	11.25			feet	1
Well Depth		No Method	17.34			feet	1

LOQ = Limit of Quantitation
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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-009
Description: 24 | Matrix: Aqueous
Date Sampled: 10/13/2017 1346 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1348	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260B	ND		20	ug/L	1
Acetonitrile	75-05-8	8260B	ND		50	ug/L	1
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
1,3-Dichloropropane	142-28-9	8260B	ND		1.0	ug/L	1
2,2-Dichloropropane	594-20-7	8260B	ND		1.0	ug/L	1
1,1-Dichloropropene	563-58-6	8260B	ND		2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethyl methacrylate	97-63-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company
Laboratory ID: SJ13031-009
Description: 24
Matrix: Aqueous
Date Sampled: 10/13/2017 1346
Project Name: Groundwater Monitoring -
Date Received: 10/13/2017
Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/18/2017 1348	TML		54419

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Methyl methacrylate	80-62-6	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
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Semivolatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company | Laboratory ID: SJ13031-009
Description: 24 | Matrix: Aqueous
Date Sampled: 10/13/2017 1346 | Project Name: Groundwater Monitoring -
Date Received: 10/13/2017 | Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	10/24/2017 1952	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1'-Biphenyl	92-52-4	8270D	ND		4.0	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		4.0	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		4.0	ug/L	1
2,4-Dichlorophenol	120-83-2	8270D	ND		8.0	ug/L	1
2,4-Dimethylphenol	105-67-9	8270D	ND		4.0	ug/L	1
2,4-Dinitrophenol	51-28-5	8270D	ND		20	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		8.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		8.0	ug/L	1
2-Chloronaphthalene	91-58-7	8270D	ND		4.0	ug/L	1
2-Chlorophenol	95-57-8	8270D	ND		4.0	ug/L	1
2-Methylnaphthalene	91-57-6	8270D	ND		0.80	ug/L	1
2-Methylphenol	95-48-7	8270D	ND		4.0	ug/L	1
2-Nitroaniline	88-74-4	8270D	ND		8.0	ug/L	1
2-Nitrophenol	88-75-5	8270D	ND		4.0	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4.0	ug/L	1
3+4-Methylphenol	106-44-5	8270D	ND		4.0	ug/L	1
3-Nitroaniline	99-09-2	8270D	ND		8.0	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		20	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		4.0	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		4.0	ug/L	1
4-Chloroaniline	106-47-8	8270D	ND		8.0	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		4.0	ug/L	1
4-Nitroaniline	100-01-6	8270D	ND		8.0	ug/L	1
4-Nitrophenol	100-02-7	8270D	ND		20	ug/L	1
Acenaphthene	83-32-9	8270D	ND		0.80	ug/L	1
Acenaphthylene	208-96-8	8270D	ND		0.80	ug/L	1
Acetophenone	98-86-2	8270D	ND		4.0	ug/L	1
Anthracene	120-12-7	8270D	ND		0.80	ug/L	1
Atrazine	1912-24-9	8270D	ND		4.0	ug/L	1
Benzaldehyde	100-52-7	8270D	ND		8.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270D	ND		0.80	ug/L	1
Benzo(a)pyrene	50-32-8	8270D	ND		0.80	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.80	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.80	ug/L	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		4.0	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		4.0	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		4.0	ug/L	1
Butyl benzyl phthalate	85-68-7	8270D	ND		4.0	ug/L	1
Caprolactam	105-60-2	8270D	ND		8.0	ug/L	1
Carbazole	86-74-8	8270D	ND		4.0	ug/L	1
Chrysene	218-01-9	8270D	ND		0.80	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.80	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Semivolatile Organic Compounds by GC/MS

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1	3520C	8270D	1	10/24/2017 1952	CMP2	10/18/2017 1556	54436

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Dibenzofuran	132-64-9	8270D	ND		4.0	ug/L	1
Diethylphthalate	84-66-2	8270D	ND		4.0	ug/L	1
Dimethyl phthalate	131-11-3	8270D	ND		4.0	ug/L	1
Di-n-butyl phthalate	84-74-2	8270D	ND		4.0	ug/L	1
Di-n-octylphthalate	117-84-0	8270D	ND		4.0	ug/L	1
Fluoranthene	206-44-0	8270D	ND		0.80	ug/L	1
Fluorene	86-73-7	8270D	ND		0.80	ug/L	1
Hexachlorobenzene	118-74-1	8270D	ND		4.0	ug/L	1
Hexachlorobutadiene	87-68-3	8270D	ND		4.0	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		20	ug/L	1
Hexachloroethane	67-72-1	8270D	ND		4.0	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		0.80	ug/L	1
Isophorone	78-59-1	8270D	ND		4.0	ug/L	1
Naphthalene	91-20-3	8270D	ND		0.80	ug/L	1
Nitrobenzene	98-95-3	8270D	ND		4.0	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		4.0	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		4.0	ug/L	1
Pentachlorophenol	87-86-5	8270D	ND		20	ug/L	1
Phenanthrene	85-01-8	8270D	ND		0.80	ug/L	1
Phenol	108-95-2	8270D	ND		4.0	ug/L	1
Pyrene	129-00-0	8270D	ND		0.80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		70	37-129
2-Fluorophenol		54	24-127
Nitrobenzene-d5		63	38-127
Phenol-d5		64	28-128
Terphenyl-d14		55	10-148
2,4,6-Tribromophenol		67	41-144

LOQ = Limit of Quantitation
ND = Not detected at or above the LOQ
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

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Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Sampler (Printed Name)	Quote No.
Westinghouse Electric Company	Cynthia Logsdon	Cal Easter	
Address	Telephone No. / Fax No. / Email	Waybill No.	Page 1 of 1
City: Hopkins; State: SC; Zip Code:	Project Name: 4th Quarter Groundwater and Permit Renewal	Project Number:	P.O Number:

Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCL 6. Na Thio. 7. NaOH

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: VOCs	SVOCs	Well Sampling										Number of Containers	Bottle	Preservative
									3	2	NA												
									A	E													
									5	1													
39	10/13/17	0957	G	X					X	X	X												
43	10/13/17	1019	G	X					X	X													
15	10/13/17	1044	G	X					X	X													
15 Dup	10/13/17	1044	G	X					X	X													
18	10/13/17	1115	G	X					X	X													
26	10/13/17	1321	G	X					X	X													
48	10/13/17	1245	G	X					X	X													
47	10/13/17	1204	G	X					X	X													
24	10/13/17	1346	G	X					X	X													

SJ13031

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

QC Requirements (Please Specify)

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

	Date	Time		Date	Time
1. Relinquished by / Sampler	10/13/17	1445	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by: Evan Cobb	10/13/17	1445

Note: All samples are retained for six weeks from receipt unless other arrangements are made

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 2.1 °C
Temp. Blank [X] Y [ ] N

Effective Date 06-27-2012

Shealy Environmental Services, Inc.
Document Number: ME0018C-09

Page 1 of 1
Effective Date: 07/28/2017
Expiry Date: 07/28/2022

Sample Receipt Checklist (SRC)

Client: Westinghouse Cooler Inspected by/date: ELC 10-13-17 Lot #: SJ13031

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: Cl strip ID:

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/ / °C 12.1 12.1 °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/HNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

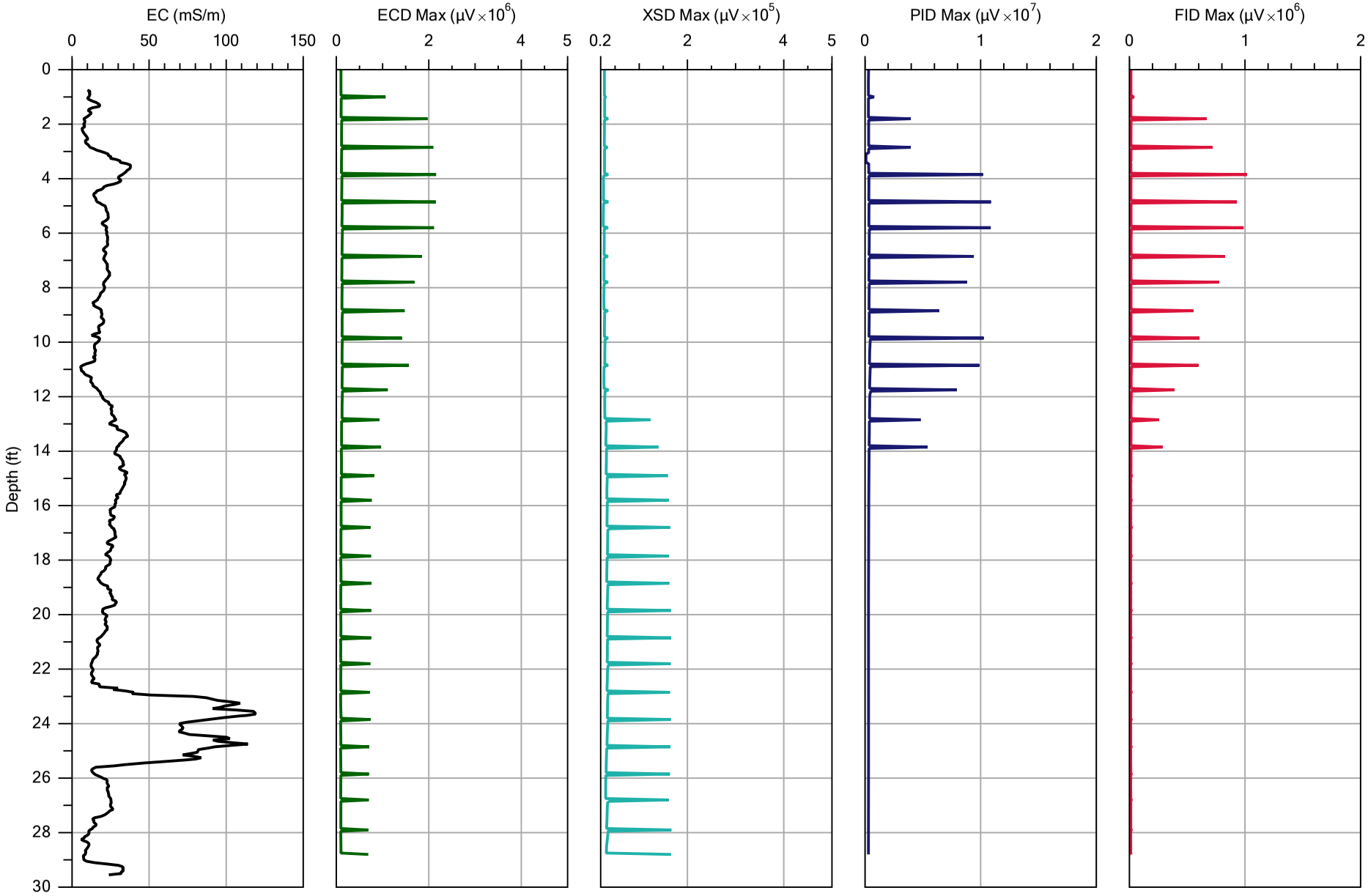
SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: ELC Date: 10-13-17

Comments: _____

APPENDIX C
LLMIP BORING LOGS



CASCADE
DRILLING | TECHNICAL SERVICES

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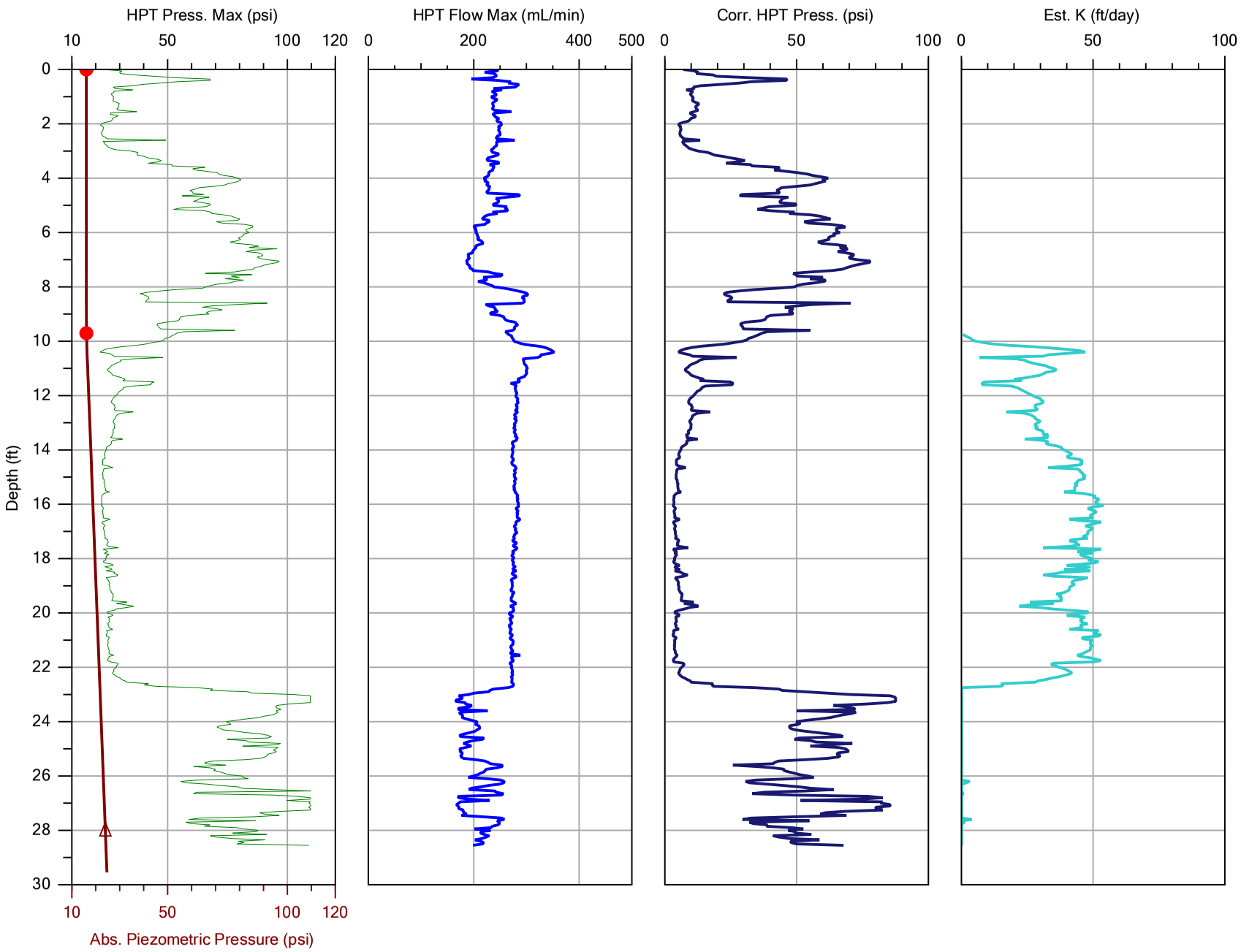

CASCADE
DRILLING | TECHNICAL SERVICES

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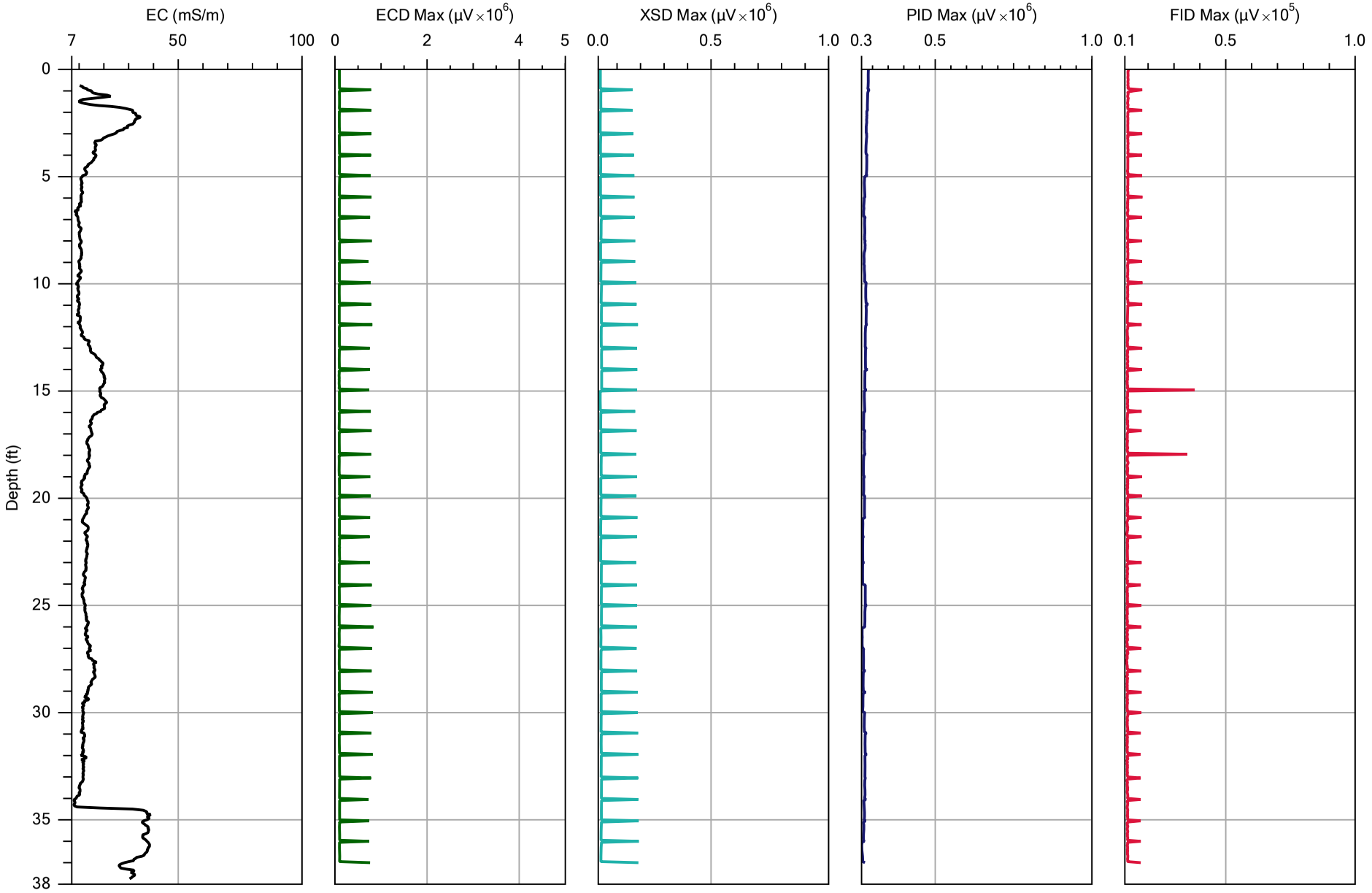

CASCADE
DRILLING | TECHNICAL SERVICES

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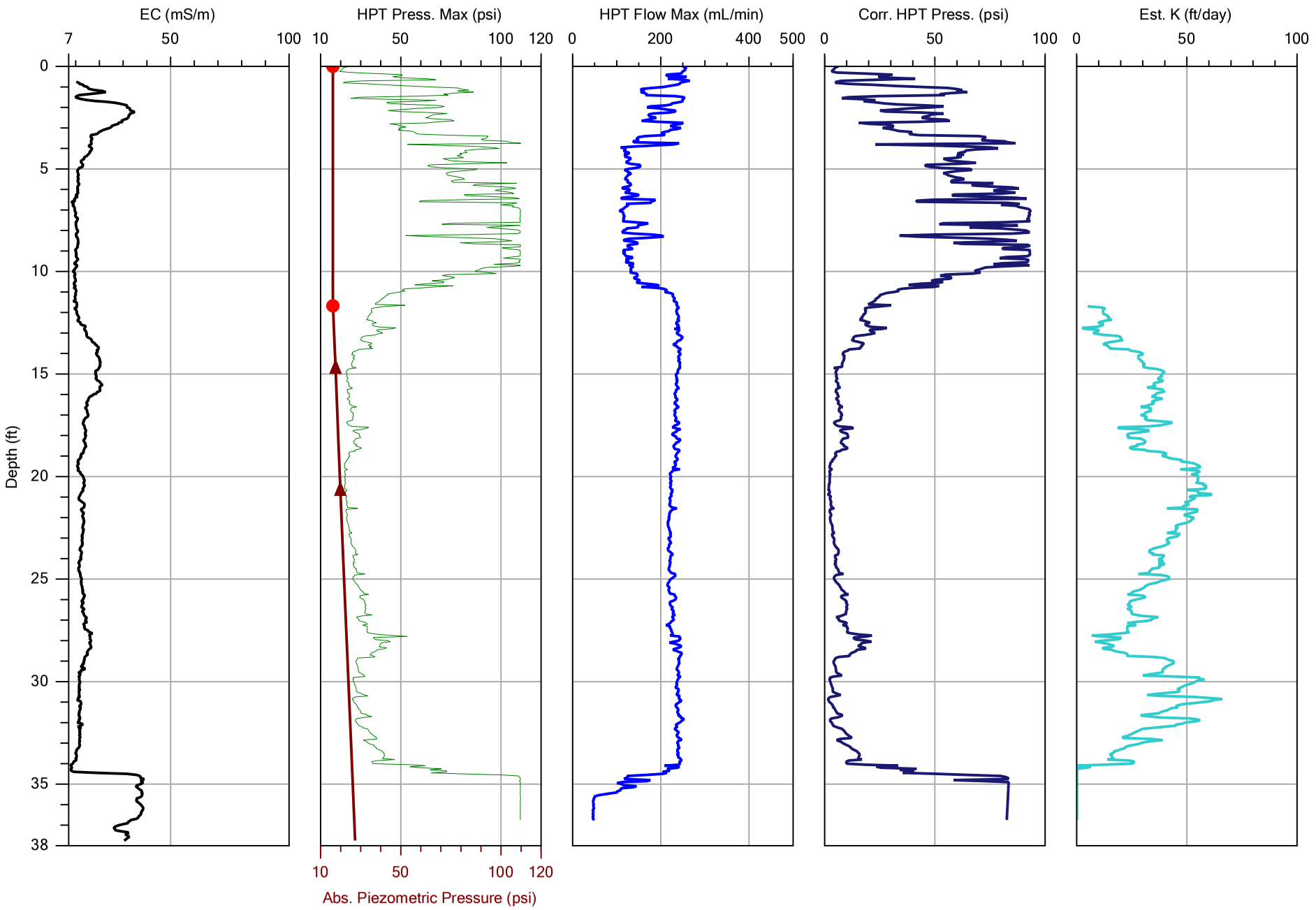

CASCADE
DRILLING | TECHNICAL SERVICES

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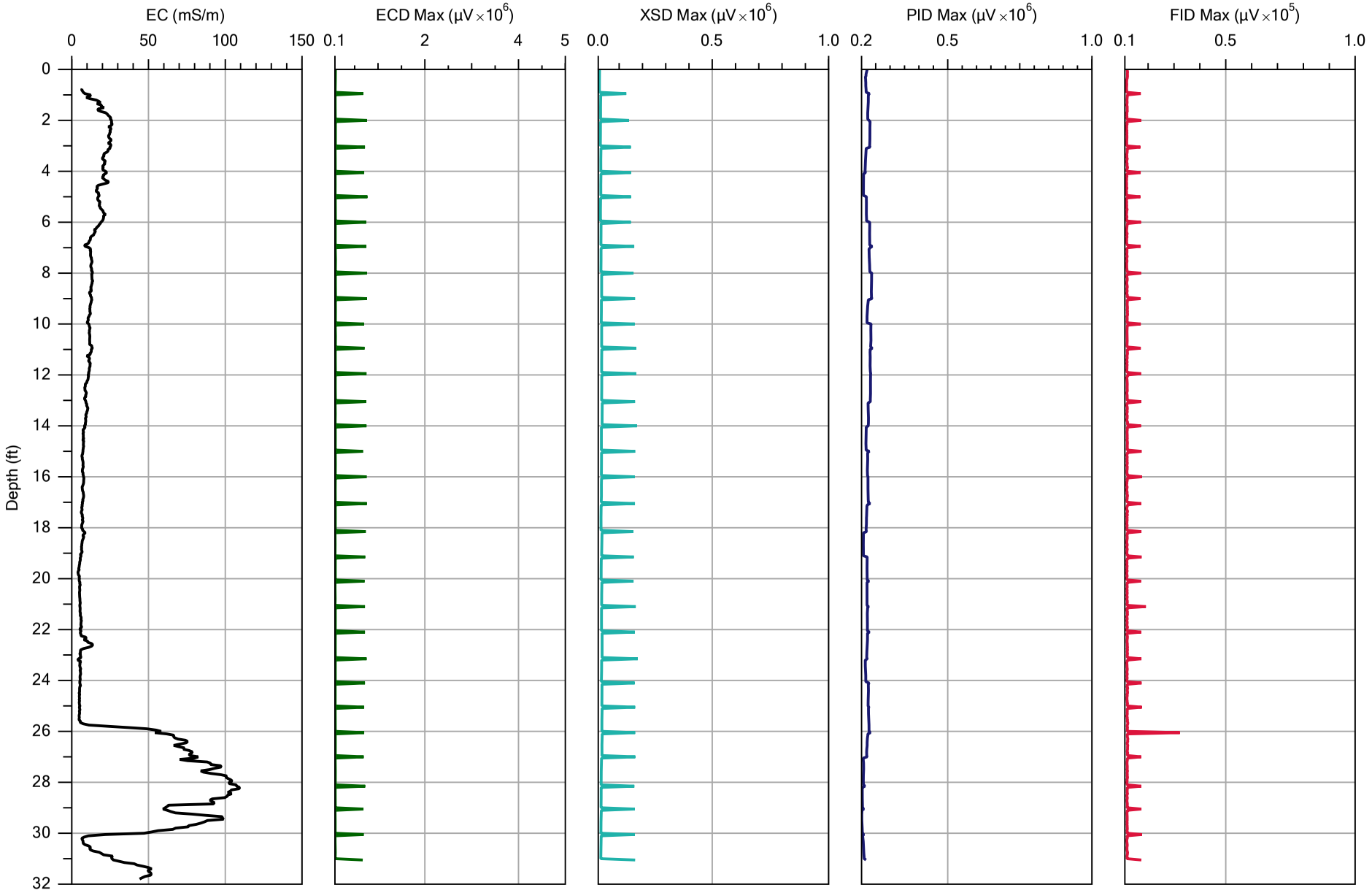
Project ID: 204.17.1060	Client: AECOM	Location:



CASCADE
DRILLING | TECHNICAL SERVICES

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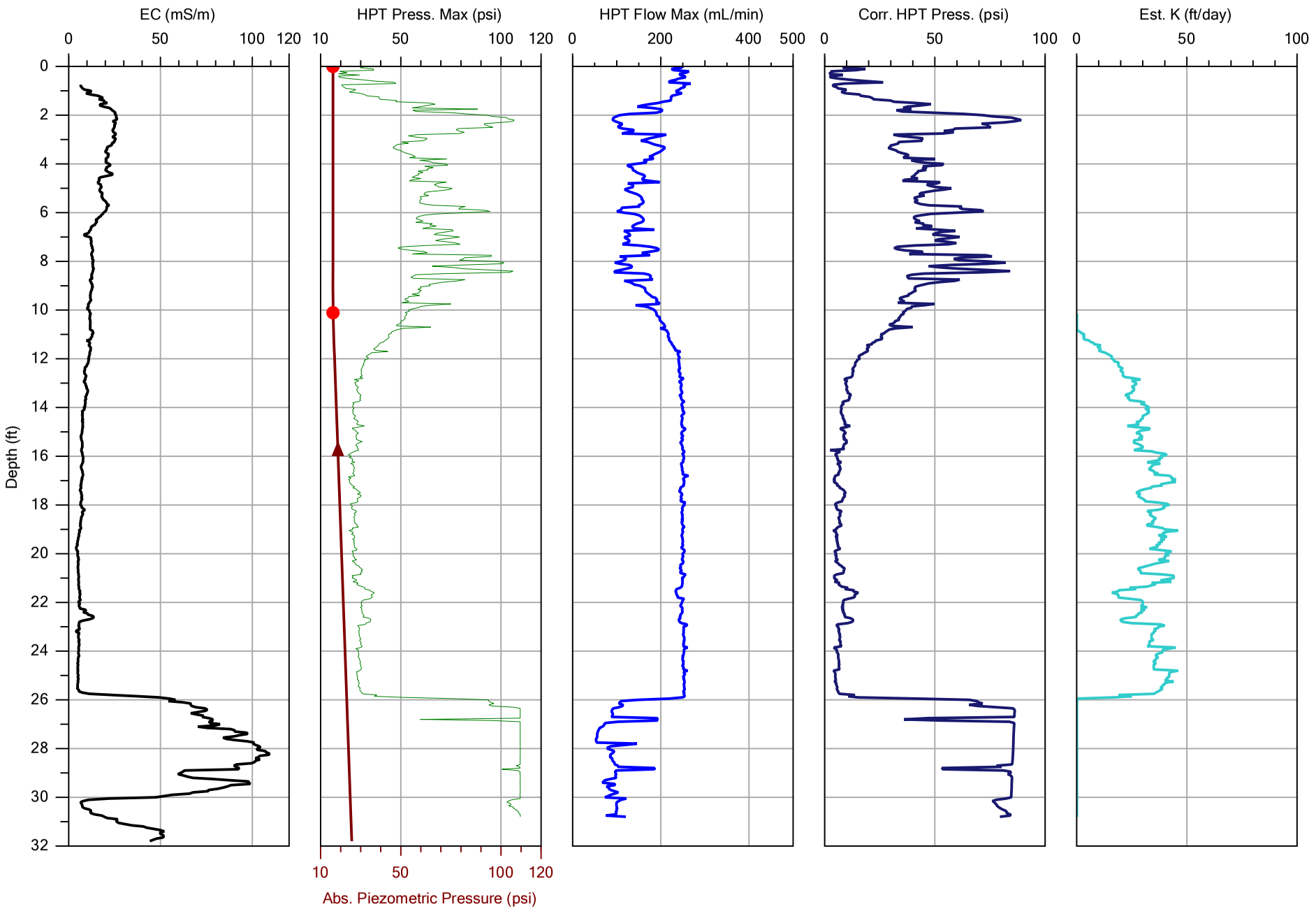
Project ID: 204.17.1060	Client: AECOM	Location:



CASCADE
DRILLING | TECHNICAL SERVICES

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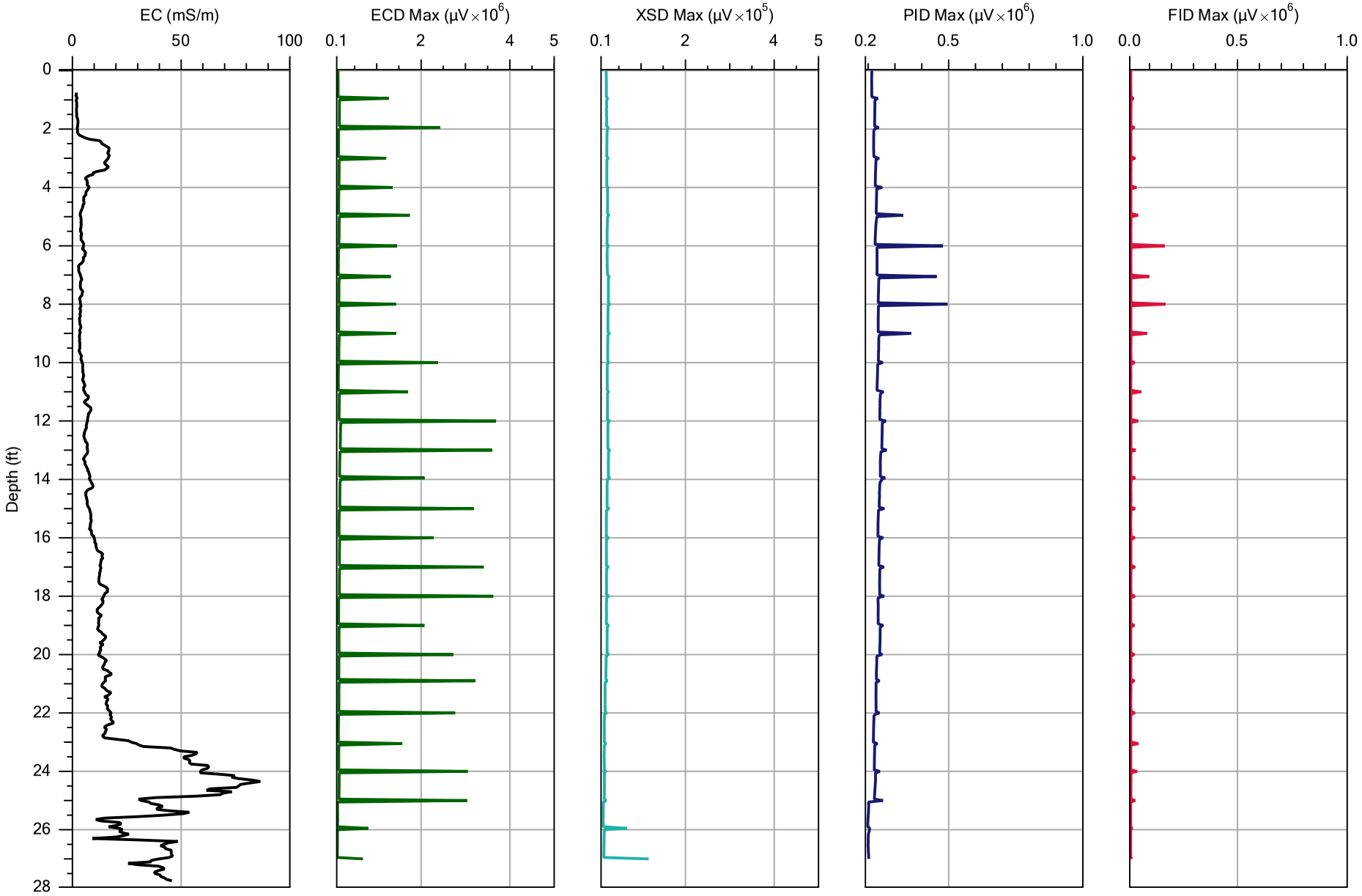

CASCADE
DRILLING | TECHNICAL SERVICES

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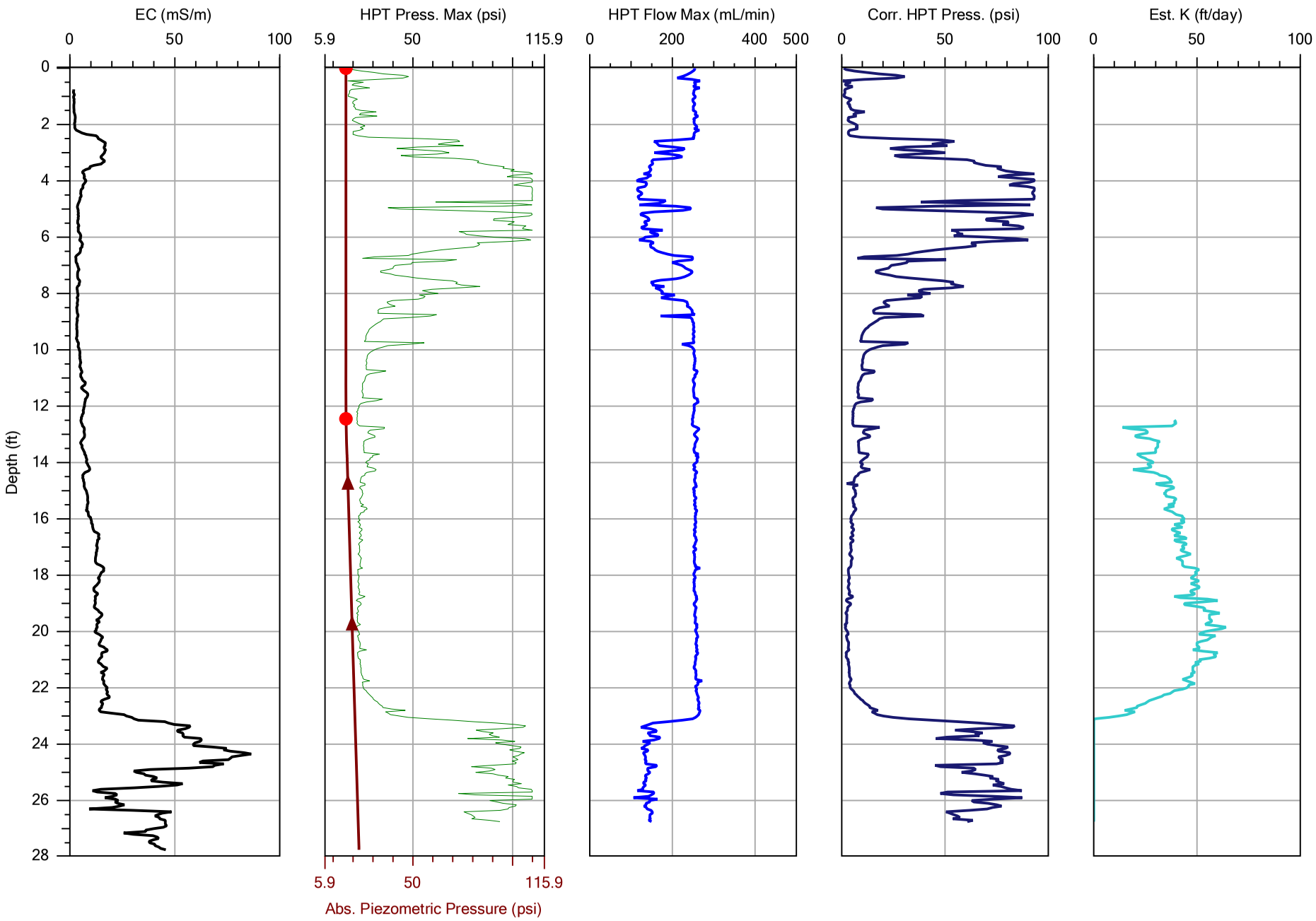

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DRILLING | TECHNICAL SERVICES

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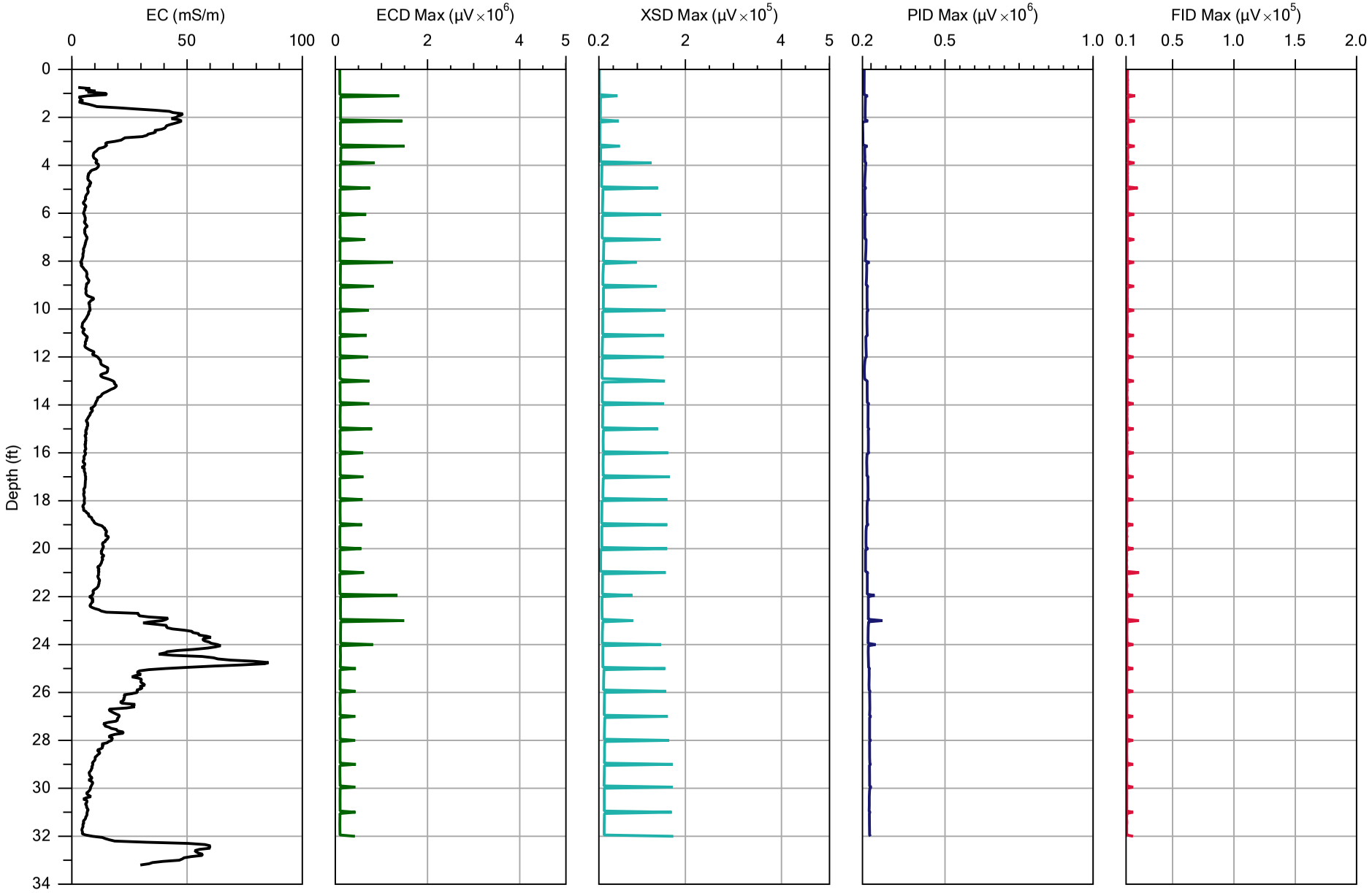

CASCADE
DRILLING | TECHNICAL SERVICES

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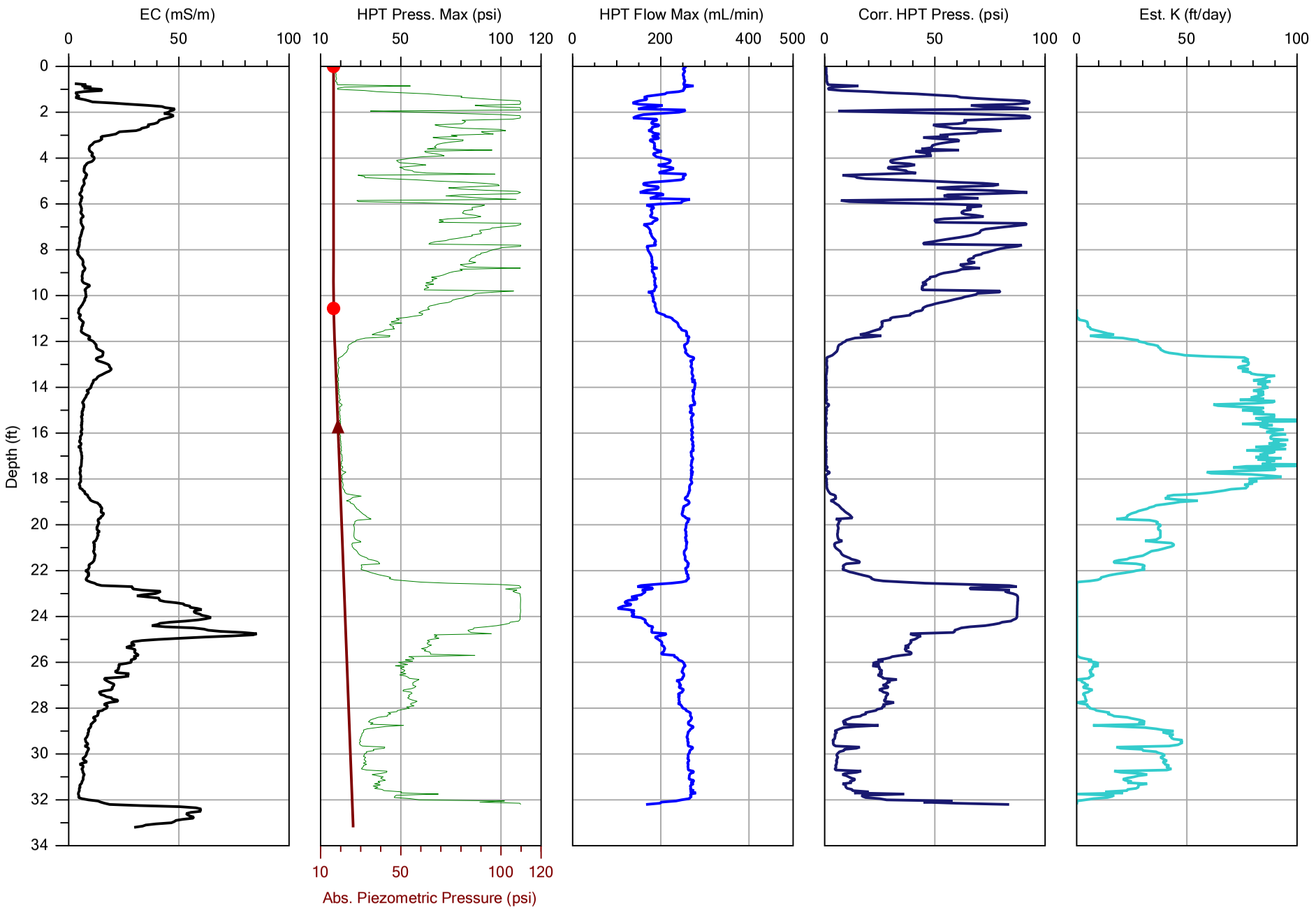

CASCADE
DRILLING | TECHNICAL SERVICES

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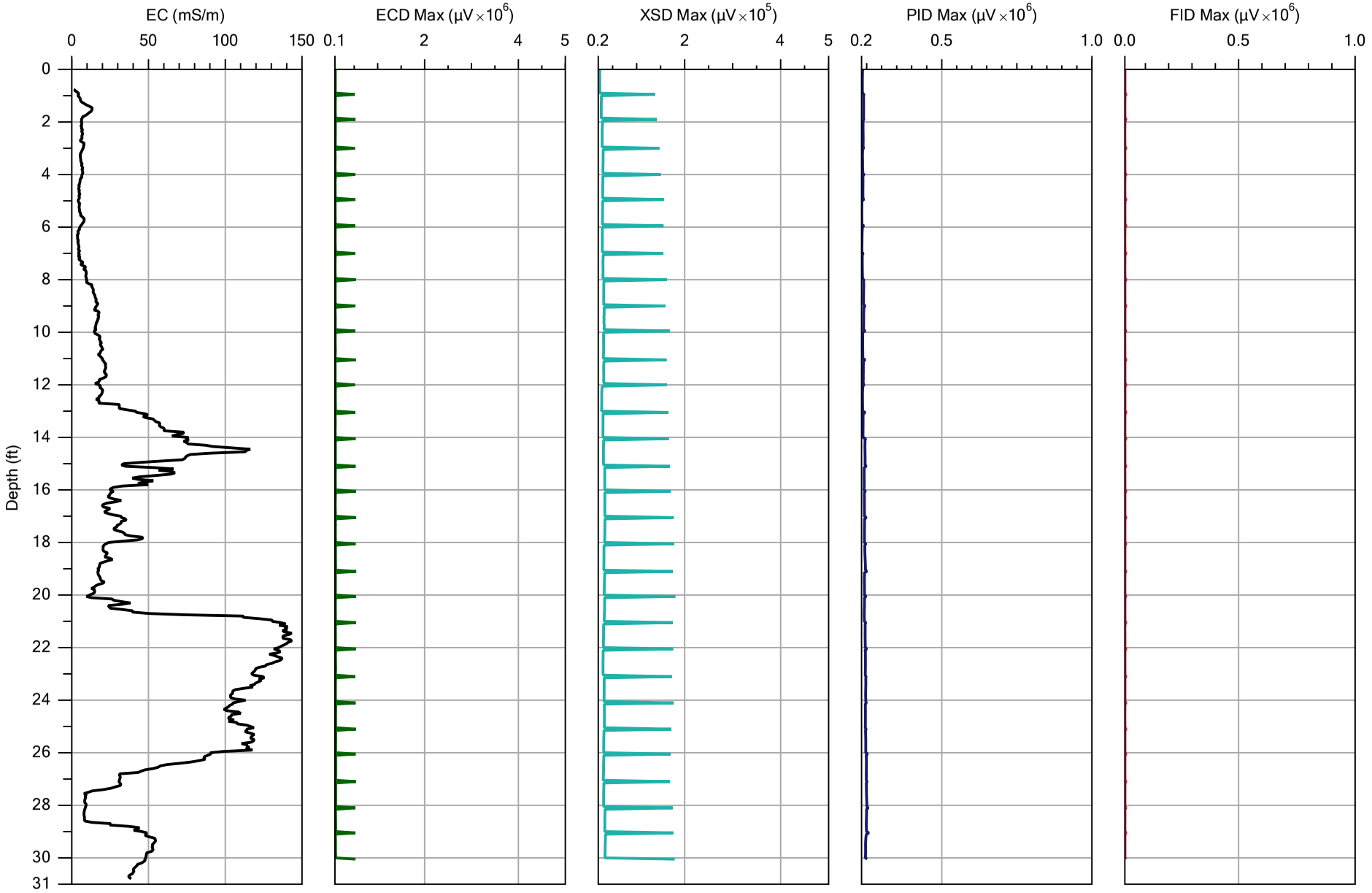

CASCADE
DRILLING | TECHNICAL SERVICES

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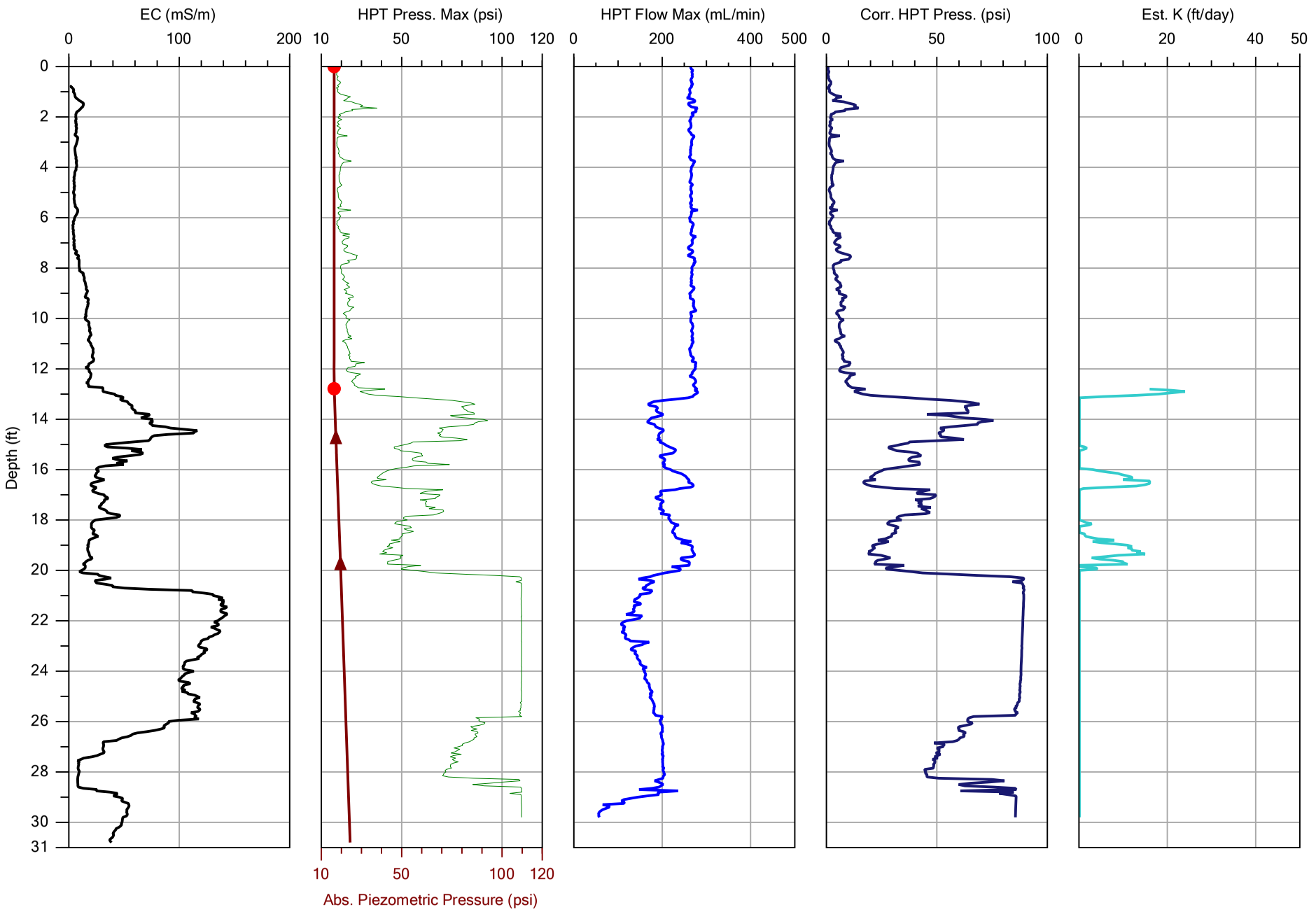

CASCADE
DRILLING | TECHNICAL SERVICES

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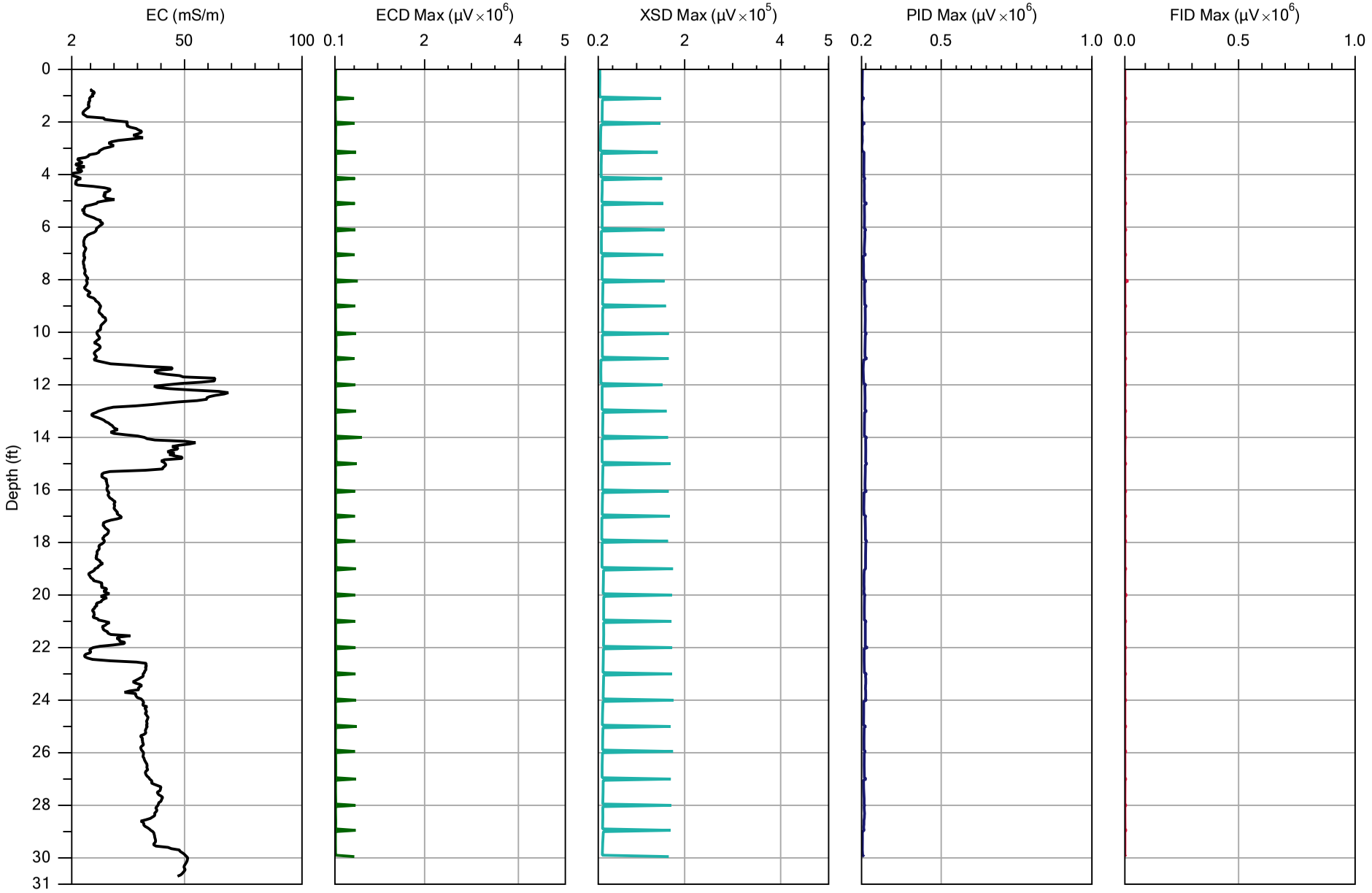

CASCADE
DRILLING | TECHNICAL SERVICES

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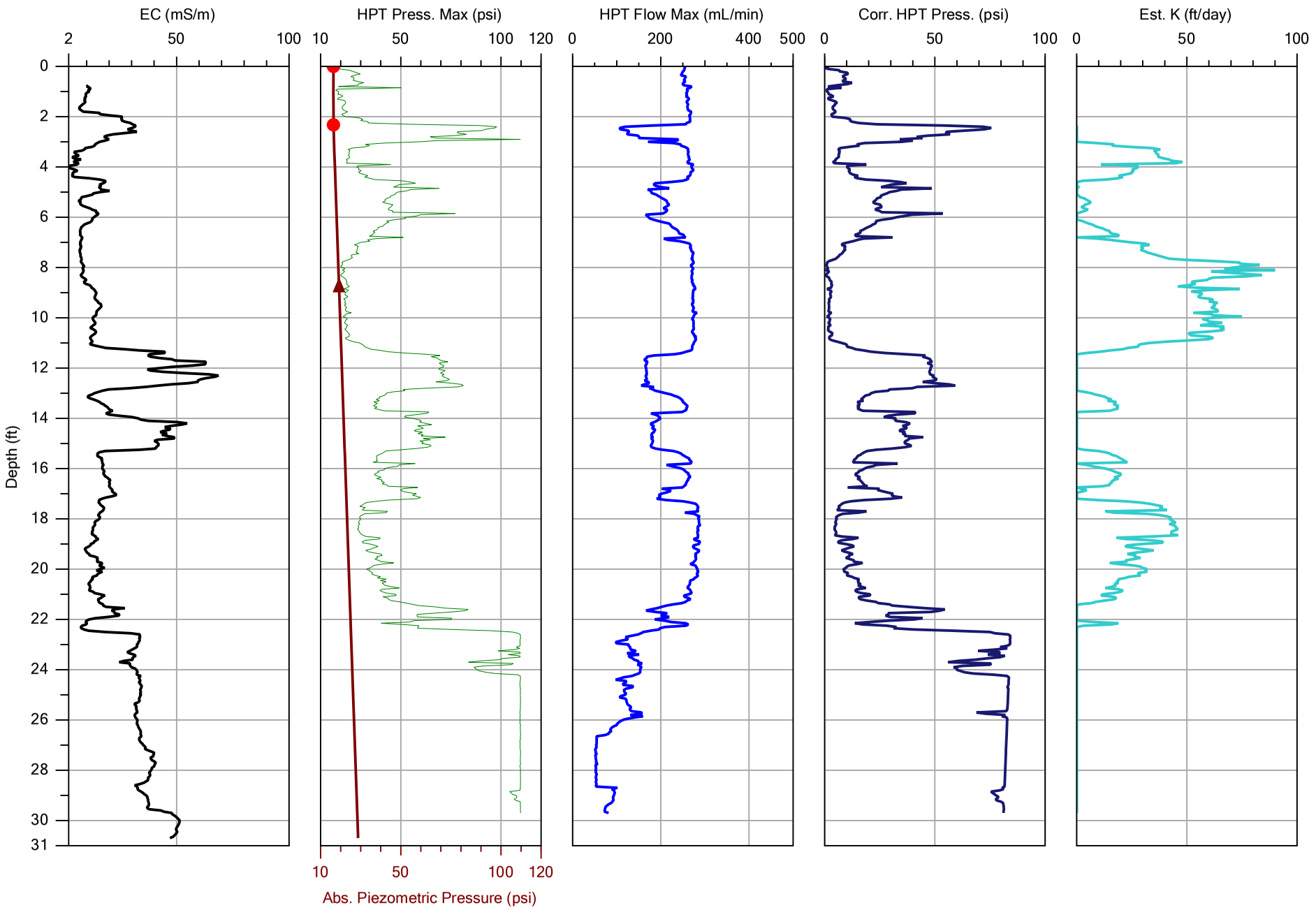
Project ID: 204.17.1060	Client: AECOM	Location:



CASCADE
DRILLING | TECHNICAL SERVICES

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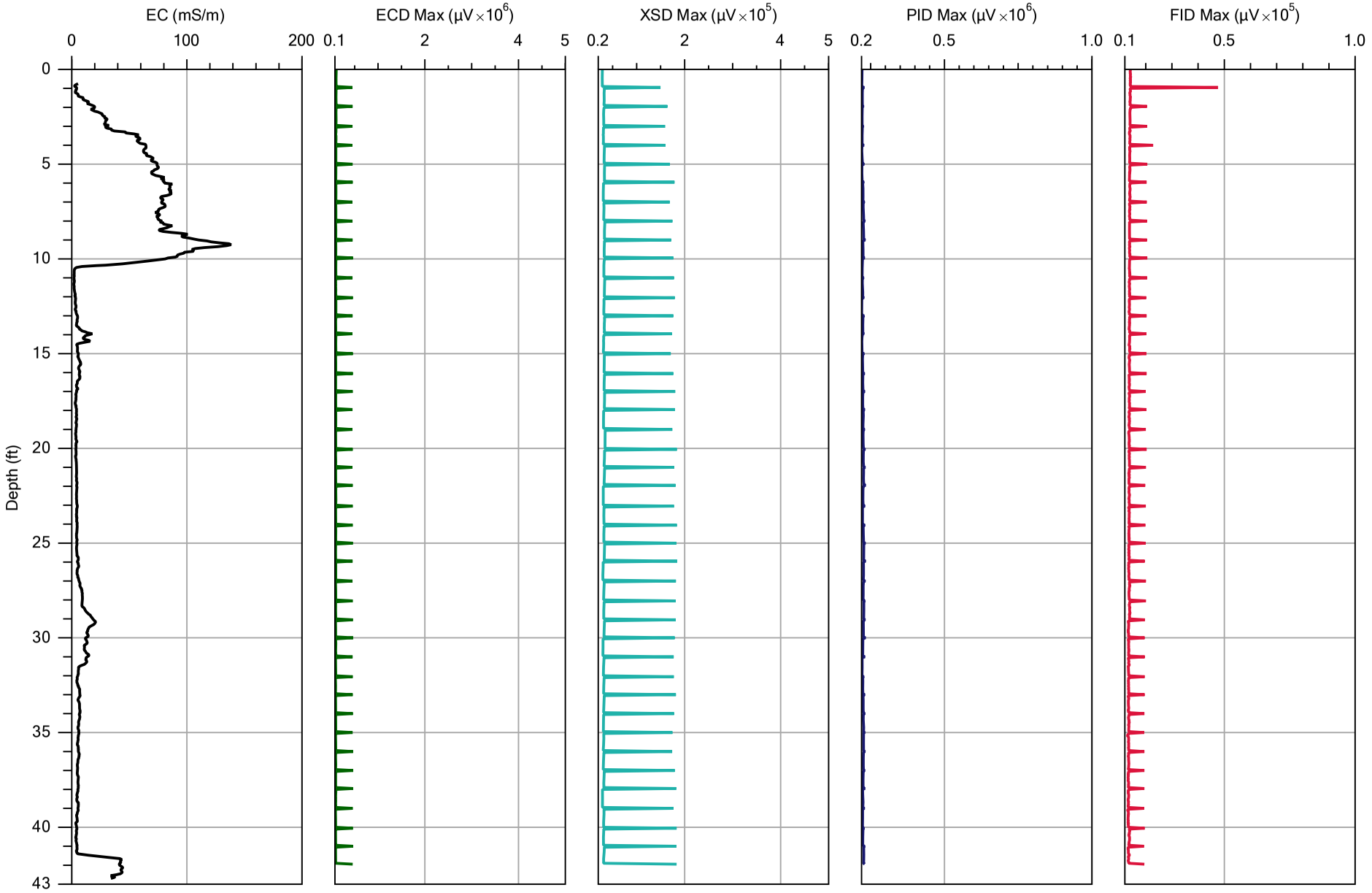

CASCADE
DRILLING | TECHNICAL SERVICES

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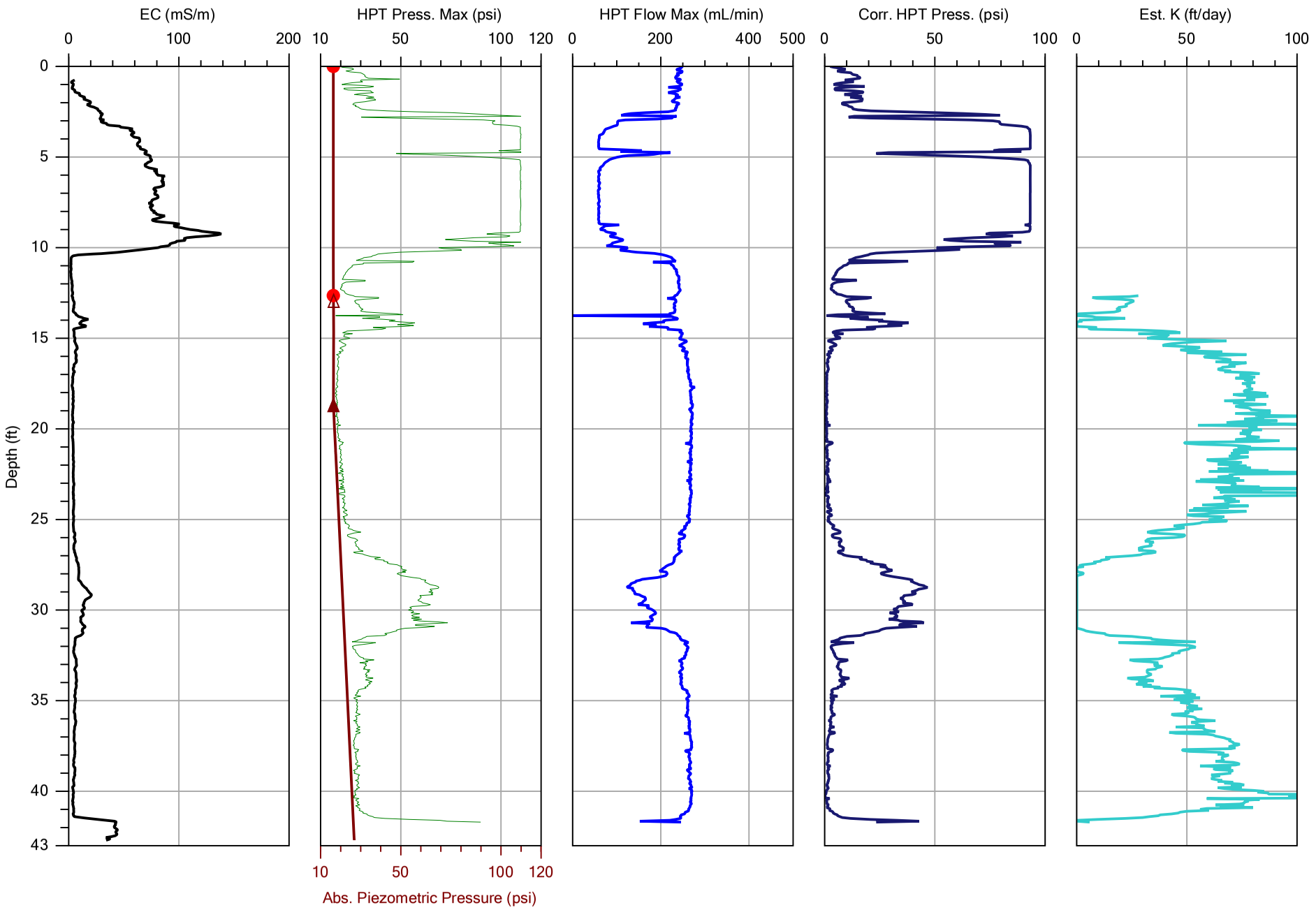

CASCADE
DRILLING | TECHNICAL SERVICES

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Company: Cascade Technical Services	Operator: EO	Date: 10/11/17
Project ID: 204.17.1060	Client: AECOM	Location: