

December 21, 2020

Project No. 20394143

Daniel Cook, Environmental Specialist Senior

Iowa Department of Natural Resources
Wallace State Office Building
502 E 9th Street, Des Moines, Iowa 50319

PHASE II ENVIRONMENTAL SITE ASSESSMENT RESULTS, EATON CORPORATION, SHENANDOAH, IOWA

Dear Mr. Cook:

On behalf of Eaton Corporation (Eaton), Golder Associates Inc. (Golder) is submitting the results of a Phase II Environmental Site Assessment at the Eaton facility located at 1600 Airport Road, Shenandoah, Iowa. The results of this investigation indicated that tetrachloroethene, trichloroethene, and/or vinyl chloride were detected in groundwater slightly above the statewide standard for a protected groundwater source in two samples. Eaton is planning for an additional investigation at the Site and will provide a site assessment plan to the Iowa Department of Natural Resources when it is available. If you have any questions regarding the enclosed report, please feel free to contact the undersigned.

Sincerely

Golder Associates Inc.

Anne M. Faeth-Boyd, R.G., P.E. (Missouri)
Associate and Senior Consultant



Frederick M. Booth, P.G. (Wyoming)
Principal and Program Leader

AMF/FMB

CC: Jeff Allen and Lisa Sutton, Eaton Corporation

Attachments: Phase II Environmental Site Assessment, Eaton Corporation, Shenandoah, Iowa



December 21, 2020

Project No. 20394143

Lisa D. Sutton
Eaton Corporation
Vice President/Chief Counsel – Regulatory Matters
Eaton – Law Department
Mail Code 4N
1000 Eaton Boulevard
Cleveland, Ohio 44122 USA

RE: PHASE II ENVIRONMENTAL SITE ASSESSMENT, EATON CORPORATION, SHENANDOAH, IOWA

Dear Ms. Sutton,

Golder Associates Inc. (Golder) was retained by Eaton Corporation (Eaton) to conduct a Phase II Environmental Site Assessment (ESA) at the Eaton facility (Site) located at 1600 Airport Road, Shenandoah, Iowa (Figure 1). Based on discussions with Eaton, the scope of work included the advancement of nine boreholes and installation of temporary monitoring wells to evaluate subsurface (soil and groundwater) conditions at the Site. This letter summarizes the field procedures and results from the assessment.

1.0 SCOPE OF WORK

The Phase II ESA field program was designed by Golder and included soil and groundwater sampling to assess subsurface conditions at the Site as described in Table 1.

2.0 FIELD PROGRAM

Prior to mobilization to the Site, a Site-specific health and safety environment plan (HASEP) was prepared and the state-required Iowa One Call (811) was submitted in order for public utility companies to mark underground utilities in the vicinity or confirm the area is clear. In addition, Golder and the subcontractors working under Golder reviewed the Site's Environment, Health, and Safety Contractor Handbook prior to initiating field work. Upon arrival at the Site, Golder reviewed the proposed boring locations and discussed private utilities with a Site representative. Golder subcontracted a private utility locate firm, Ground Penetrating Radar Systems Inc. (GPRS), to confirm the proposed borehole locations were clear of underground utilities use ground penetrating radar (GPR) and electromagnetic (EM) tracing and the field engineer followed Golder's internal procedures for authorizing ground disturbance activities.

Environmental Works Inc. (EWI), a licensed driller in the state of Iowa, performed the direct push technology (DPT) drilling and installed temporary monitoring wells for groundwater sampling. Golder provided field oversight of the drilling and temporary well installation work completed by EWI. Golder performed all soil and groundwater sampling activities. The field program was completed November 10-13, 2020.

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2.1 Direct Push Drilling and Soil Sampling

A DPT drill rig operated by EWI under direct supervision by Golder was used to advance nine soil borings (BH-01 through BH-09) at the locations shown on Figure 2. The borings were advanced to 25 feet below ground surface (bgs), except for BH-03 where the borehole was advanced to 30 feet bgs due to the lack of saturated soils observed in the recovered soil core.

At all borehole locations, soil was cored continuously to the total depth using five-foot long acetate liner sleeves within the DPT tools. The recovered soil cores were logged in the field by the Golder field geologist. A field boring log detailing the location, depth, and soil type for each soil sample collected was completed by the field engineer for each borehole (see Appendix A). Logging of the soil cores included soil descriptions and visual classifications in accordance with the Unified Soil Classification System (USCS) and standard industry practices. The moisture content of each soil sample was also noted during the logging process. Soil cores were field screened for volatile organic compounds (VOCs) using a photoionization detector (PID) at 1 to 2-foot intervals. PID readings collected from the recovered soil cores ranged from 0.7 ppm to 25.5 ppm. The highest reading (25.5 ppm) was recorded at 0 to 1 feet bgs in BH-02. One soil sample was collected from each borehole at the depth interval with the highest PID reading above the observed saturated zone. Pertinent data concerning the drilling, field screening, and sampling activities were recorded on the field boring logs provided as Appendix A.

After field screening, a fresh surface was created just prior to collection of the samples for laboratory analysis. The soil samples were collected using laboratory supplied coring devices (Terra Core™ sampler) for analysis of VOCs and by a gloved hand for the other analyses, and were then placed directly into appropriate laboratory containers, labeled and placed in a cooler with ice.

2.2 Groundwater Sampling

Golder collected groundwater samples from all nine borehole locations. After the boreholes were completed to total depth (approximately 30 feet bgs at BH-3 and 25 feet bgs at the other eight locations), a temporary monitoring well, consisting of a one-inch diameter polyvinyl chloride (PVC) riser pipe with a 10-foot long 0.010-inch slotted screen was placed at the bottom of the borehole to allow for groundwater purging and sampling. Prior to purging, the depth to water from ground surface was recorded to the nearest 0.01 foot using an electronic water level meter. The depth to groundwater measured ranged from 9.74 feet to 18.28 feet bgs. Purging and sampling of the temporary wells was conducted using a peristaltic pump.

Where there was sufficient volume (BH-01 through BH-07), groundwater was sampled from the temporary wells after approximately one borehole volume of groundwater had been removed. Groundwater stabilization parameters (specific conductivity, pH, turbidity, and temperature) were measured during purging, except at BH-08 and BH-09 where there was insufficient groundwater volume and a sample was collected as soon as the well recovered enough to allow for sample collection. Samples collected for analysis of dissolved metals were field filtered with a 0.45-micron filter. A groundwater sample collection form for each location was completed by the Golder field engineer. The sample collection forms are included in Appendix B.

After groundwater sampling was complete, the temporary wells were removed, and the boreholes were plugged and abandoned by backfilling the holes with bentonite pellets. The ground surface at each location was repaired to match the original condition (soil or concrete).

2.3 Sample Handling and Laboratory Analysis

All analytical samples were properly labeled as to sample location and depth (if applicable), date and time of collection, sampler's initials, analyses to be performed, preservative(s) used, and project name. This information was then logged on a chain-of-custody form.

Sample coolers were shipped to the analytical laboratory under chain-of-custody protocol for analysis. Soil and groundwater samples were analyzed for the following (also see Tables 1 through 3):

- Volatile organic compounds (VOCs) by EPA method 5035 (for soil preparation) and 8260
- Semivolatile organic compounds (SVOCs) by EPA method 8270
- Resource Conservation and Recovery Act (RCRA) metals by EPA methods 6020 and 7470/7471

2.4 Decontamination and Investigation Derived Waste

Equipment decontamination was conducted in general conformance with American Society for Testing and Materials (ASTM) Standard D 5088-15a (ASTM, 2015). The drill rig was decontaminated upon arrival on-Site with particular attention to the working end and downhole equipment (i.e., rods, etc.). Non-dedicated downhole drilling and sampling equipment was decontaminated prior to use at each location. Decontamination consisted of washing the equipment, including rods, in a potable water and Liquinox™ solution (or equivalent), followed by a potable water rinse. Decontamination of Geoprobe rig equipment was performed in buckets beside the rig at each location.

Investigation Derived Waste (IDW) generated during the Phase II ESA was containerized in 55-gallon steel drums. The IDW drums were labeled and staged at the Site inside the northwest corner of the building at the request of the Site representative. Groundwater and decontamination water was collected in 5-gallon buckets during purging/decontamination and then transferred into a drum. Soil cuttings from the drilling activities were placed in a separate drum. Soil and groundwater analytical data will be used to determine an appropriate disposal method for the IDW. Personal protective equipment (PPE) and general refuse was bagged and disposed of in a general refuse dumpster at the Site.

2.5 Quality Assurance and Quality Control

All investigation procedures, including soil and groundwater sampling, collection of quality assurance and quality control (QA/QC) samples, and borehole abandonment, were conducted in general accordance with industry standard practices. Field QA/QC included one trip blank per media (provided by the laboratory) per cooler of samples submitted for analysis of VOCs.

To confirm the accuracy and reproducibility of the laboratory analytical results, the analytical laboratory implemented a QA/QC program, including laboratory replicate samples, method blanks, control standards, and matrix spike/matrix spike duplicates (MS/MSD). The laboratory QA/QC data generated during the sample analyses is included in the laboratory analytical reports (Appendix C) provided to Golder. In addition, Golder conducted an evaluation of the analytical data, including the QA/QC data (level 2 data validation), and a copy of the level 2 data validation evaluation forms are included in Appendix C. No data was rejected based on the evaluation. Detections listed in the data summary tables with a "J" qualifier are considered estimated values.

3.0 SITE GEOLOGIC AND HYDROGEOLOGIC SETTING

Based on a review of the USGS 2018 Shenandoah West, Iowa topographic quadrangle map, the Site has an elevation of approximately 970-980 feet above mean sea level and the topography is generally flat with a gentle slope to the north and west. According to the United States Department of Agriculture Web Soil Survey, surficial soils at the Site are comprised of silty clay loam, which are described as somewhat poorly drained.

Soils observed during the Phase II ESA were mostly silty clay with trace amounts of fine sand. Saturated soil was encountered during drilling at a depth of approximately 12 to 15 feet bgs.

4.0 ANALYTICAL RESULTS

4.1 Screening Criteria

The Iowa Department of Natural Resources (DNR) has developed statewide standards for the evaluation of soil and groundwater for certain chemicals of concern. The statewide standards for groundwater include standards for a protected groundwater source and a non-protected groundwater source. A protected groundwater source is defined by Iowa DNR as “a saturated bed, formation, or group of formations which has a hydraulic conductivity of at least 0.44 meters per day (m/d) and a total dissolved solids (TDS) concentration of less than 2,500 milligrams per liter (mg/l).” There is no TDS or hydraulic conductivity data available for the Site and therefore the aquifer cannot be ruled out as a protected groundwater source at this time.

4.2 Soil Analytical Detections

Nine soil samples were collected for analysis of VOCs, SVOCs, and metals, and the results are shown on Table 2. The laboratory analytical reports are included in Appendix C. As discussed above, soil results were compared to the Iowa DNR statewide standards. A discussion of the analytes that were detected is provided below.

- **Metals:** All eight RCRA metals were detected in five of the nine soil samples and only silver and mercury were not detected in all nine soil samples. None of the detections exceeded the statewide standards, except for arsenic which exceeded the statewide standard of 1.9 milligrams per kilogram (mg/Kg) in eight of the nine samples. The concentrations of arsenic detected ranged from 1.4 mg/Kg to 8.6 mg/Kg. Based on the Iowa State-Wide Trace Element Soil Sampling Project prepared by IDNR (dated June 2010), the average background concentration of arsenic in “shallow” soil (0-8 inches) in Iowa is approximately 7.76 mg/Kg and the average background concentration of arsenic in “deep” soil (12-24 inches bgs) is approximately 9.24 mg/Kg. Based on these average background concentrations, the detections of arsenic are attributed to background arsenic and not indicative of issues related to industrial activities at the Site.
- **VOCs:** Six of the nine soil samples had at least one detection of a VOC. The VOCs detected included: 2-butanone, acetone, benzene, carbon disulfide, and tetrachloroethene (PCE). None of the detections exceeded the statewide standards for soil. PCE was detected in BH-04 only.
- **SVOCs:** Five of the nine soil samples had at least one detection of a SVOC and a total of 21 different SVOCs were detected. None of the detections exceeded the statewide standards.

4.3 Groundwater Analytical Detections

Nine groundwater samples were collected from the temporary monitoring wells for analysis of VOCs, SVOCs, and metals, and the results are shown on Table 3. The laboratory analytical reports are included in Appendix C. As discussed above, groundwater results were compared to the Iowa DNR statewide standards for both Protected and Non-Protected Groundwater Sources. A discussion of the analytes that were detected in the temporary monitoring wells is provided below.

- **Metals:** Arsenic and barium were detected in all nine groundwater samples. All eight RCRA metals were detected in at least one groundwater sample except for silver. None of the detections exceeded the statewide standards.
- **VOCs:** Seven of the nine groundwater samples had at least one detection of a VOC. A total of eight different VOCs were detected and three of the compounds were detected above the statewide standards for a protected groundwater source.
 - The detections of trichloroethene (TCE) in BH-02 (0.0093 mg/L) and BH-04 (0.0091 mg/L) exceeded the statewide standard for a protected groundwater source (0.005 mg/L).
 - The detection of PCE in BH-04 (0.0070 mg/L) exceeded the statewide standard for a protected groundwater source (0.005 mg/L)
 - The detection of vinyl chloride in BH-02 (0.0028 mg/L) also exceeded the statewide standard for a protected groundwater source (0.002 mg/L).
 - None of the detections exceeded the statewide standards for a non-protected groundwater source.
- **SVOCs:** Five of the nine groundwater samples had at least one detection of a SVOC and a total of 11 different SVOCs were detected. None of the detections exceeded the statewide standards.

5.0 SUMMARY OF FINDINGS AND CONCLUSIONS

Based on the information obtained during the Phase II ESA, Golder has prepared the following summary of findings and conclusions:

- **Soil:**
 - All nine soil samples had multiple low-level detections of metals, but none of the detections exceeded the statewide standards with the exception of arsenic. The concentrations of arsenic detected in soil are within the expected background range for soils in Iowa.
 - Several VOCs and SVOCs were detected at low-level concentrations, but none of the detections exceeded the statewide standards.
- **Groundwater:**
 - All nine groundwater samples had multiple low-level detections of metals, but none of the detections exceeded the statewide standards.

- The concentrations of TCE and vinyl chloride in BH-02 and the concentrations of PCE and TCE in BH-04 exceeded the statewide standards for a protected groundwater source. None of the other detections of VOCs exceeded the statewide standards.
- While there were several detections of SVOCs in groundwater, none of the detections of SVOCs exceeded the statewide standards.

6.0 LIMITATION AND USE OF REPORT

This report was prepared for the exclusive use of Eaton. The report, which specifically includes all tables, figures and appendices, is based on data and information collected during the Site investigation conducted by Golder and is based solely on the conditions of the property at the time of the field investigation, supplemented by historical information and data obtained by Golder as described in this report.

The assessment of environmental conditions and possible hazards at this Site has been made using the results of chemical analysis of discrete soil and groundwater samples from a limited number of locations. The Site conditions between sampling locations have been inferred based on conditions observed at sampling locations. Groundwater conditions may vary from these sample locations. Additional study, including further sampling, can reduce the inherent uncertainties associated with this type of study. However, it is never possible, even with exhaustive sampling and testing, to dismiss the possibility that part of a Site may be contaminated and remain undetected.

The services performed, as described in this report, were conducted in a manner consistent with that level of care and skill normally exercised by other members of the engineering and science professions currently practicing under similar conditions, subject to the time limits and financial and physical constraints applicable to the services. Any use which a third party makes of this report, or any reliance on, or decisions to be made based on it, are the responsibilities of such third parties. Golder accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The content of this report is based on information collected during our investigation, our present understanding of the Site conditions, and our professional judgment in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is either expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings, or other studies, Golder should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.

7.0 CLOSURE

Golder appreciates the opportunity to assist Eaton with this project and trusts this report is sufficient for your current needs. Should you require any additional information about this Phase II ESA Report, please feel free to contact the undersigned.

Golder Associates Inc.



Brett E. Forthaus, P.E.
Project Environmental Engineer



Anne M. Faeth-Boyd, R.G./P.G., P.E.
Associate and Senior Consultant



Frederick M. Booth, P.G.
Principal and Program Leader

BEF/AMF/FMB

Attachments: Figure 1 – Subject Property Location Map
Figure 2 – Boring Location Map
Table 1 – Scope of Work
Table 2 – Soil Analytical Detections Summary
Table 3 – Soil Analytical Results for PFAS
Table 4 – Groundwater Analytical Detections Summary
Table 5– Groundwater Analytical Results for PFAS
Appendix A – Field Boring Logs
Appendix B – Groundwater Sample Collection Forms
Appendix C – Laboratory Analytical Data and Data Validation Reports

Figures



LEGEND

Subject Property

- 1) Former Heat Storage Building
- 2) 250,000-gallon water tank
- 3) Materials storage shed

REFERENCE(S)

- 1. BASEMAP(S): ESRI
- 2. COORDINATE SYSTEM: NAD 1983 STATEPLANE IOWA SOUTH FIPS 1402 FEET



CLIENT
EATON CORPORATION

PROJECT
EATON CORPORATION, 1600 AIRPORT ROAD, SHENANDOAH,
IOWA 51601

TITLE
SUBJECT PROPERTY LOCATION MAP

CONSULTANT



| | |
|------------|------------|
| YYYY-MM-DD | 2020-10-28 |
| DESIGNED | EFT |
| PREPARED | EFT |
| REVIEWED | BEF |
| APPROVED | AMF |

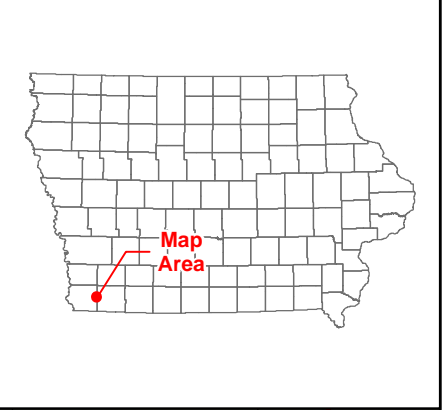
PROJECT NO.
20394143

CONTROL
-





REV.
-

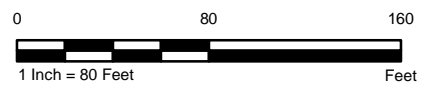
FIGURE
1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIBS



LEGEND

-  Subject Property
-  2010 Investigation Area
-  Former UST Area
-  Boring Location



REFERENCE(S)
 1. BASEMAP(S): ESRI
 2. COORDINATE SYSTEM: NAD 1983 STATEPLANE IOWA SOUTH FIPS 1402 FEET

CLIENT
 EATON CORPORATION

PROJECT
 EATON CORPORATION, 1600 AIRPORT ROAD, SHENANDOAH, IOWA 51601

TITLE
 BORING LOCATION MAP

| | | |
|---|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2020-12-01 |
|  | DESIGNED | EFT |
| | PREPARED | EFT |
| | REVIEWED | BEF |
| | APPROVED | AMF |

| | | | |
|-------------|---------|------|--------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| 20394143 | - | - | 2 |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB

Tables

| Location | Rationale | Total depth of borehole | Soil | | | Groundwater | | |
|----------|--|-------------------------|-------------|--------------|--------------------------|-------------|--------------|---|
| | | | VOCs (8260) | SVOCs (8270) | RCRA Metals (6020A/7470) | VOCs (8260) | SVOCs (8270) | Dissolved RCRA Metals (6020A/7470) Field Filtered |
| BH-01 | Interior – Near paint booth cleaning sump. One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (5-7 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-02 | Interior – Near "Pit Area" and scrap dock (area with sumps, trenches, staining, chemical storage, drums). One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (0-1 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-03 | Exterior – North end of former UST Area (groundwater samples not collected when USTs removed). One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (1-3 ft bgs). | 30 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-04 | Exterior – Outside of current tank farm area (tank farm is inside the building), there are fill ports on the exterior wall and staining was observed on the inside wall. One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (9-11 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-05 | Exterior – South end of former UST Area (groundwater samples not collected when USTs removed). One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (1-3 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-06 | Exterior – Outside Heat Treat Storage Building (building was formerly the IWWTS, boring placed on the west side of building to the north of the door outside the former pit location). This location was also approximately downgradient of former Waste Oil USTs. One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (9-11 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-07 | Exterior – Boring placed near location of highest concentrations of 2010 Investigation (TB-21). One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (0-1 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-08 | Interior – Near former rail loading area (east end of rail line used to remove metal chips from Site), away from thick concrete area. One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (3-5 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| BH-09 | Interior – Boring placed on south side of vertical Broach Pit (staining visible inside pit), away from thick concrete area. One soil sample was collected at the depth interval with the highest PID reading above the observed saturated zone (13-15 ft bgs). | 25 feet bgs | 1 | 1 | 1 | 1 | 1 | 1 |
| QA/QC | One trip blank per media was submitted with all shipments of samples submitted for analysis of VOCs. | N/A | 1 | 0 | 0 | 1 | 0 | 0 |
| TOTAL | | | 10 | 9 | 9 | 10 | 9 | 9 |

Notes:

VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
RCRA - Resource Conservation Recovery Act
BH - borehole
PID - photoionization detector
bgs - below ground surface
UST - underground storage tank
IWWTS - industrial wastewater treatment system
QA/QC - quality assurance/quality control
N/A - not applicable

Prepared by: BEF 12/15/2020
Checked by: AMF 12/15/2020
Reviewed by: FMB 12/16/2020

| | UNITS | Iowa Statewide Standards for Soil | BH-01 | BH-02 | BH-03 | BH-04 | BH-05 | BH-06 | BH-07 | BH-08 | BH-09 |
|--|-----------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Depth | ft bgs | | 5-7 | 0-1 | 1-3 | 9-11 | 1-3 | 9-11 | 0-1 | 3-5 | 13-15 |
| Sample Date | | | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/11/2020 | 11/12/2020 | 11/12/2020 | 11/11/2020 | 11/11/2020 |
| ANALYTE | | | | | | | | | | | |
| Metals | | | | | | | | | | | |
| Arsenic | mg/Kg-dry | 1.9 | 6.7 | 3.6 | 5.6 | 1.4 | 5.6 | 8.6 | 5.0 | 6.3 | 2.3 |
| Barium | mg/Kg-dry | 15,000 | 300 | 300 | 280 | 160 | 130 | 150 | 190 | 190 | 140 |
| Cadmium | mg/Kg-dry | 70 | 0.63 | 0.29 | 0.24 | 0.10 J | 0.16 J | 0.16 J | 0.23 | 0.085 J | 0.10 J |
| Chromium | mg/Kg-dry | 190 | 14 | 15 | 12 | 13 | 9.1 | 13 | 13 | 13 | 11 |
| Lead | mg/Kg-dry | 400 | 20 | 10 | 15 | 9.7 | 10 | 20 | 14 | 12 | 11 |
| Selenium | mg/Kg-dry | 390 | 2.0 | 2.2 | 1.8 | 1.8 | 1.4 | 1.9 | 1.8 | 1.9 | 1.8 |
| Silver | mg/Kg-dry | 370 | 0.079 J | 0.095 J | 0.063 J | 0.088 J | ND | 0.090 J | ND | 0.079 J | 0.083 J |
| Mercury | mg/Kg-dry | 23 | 0.019 J | ND | ND | 0.029 | 0.017 J | 0.047 | ND | 0.030 | 0.039 |
| Volatile Organic Compounds | | | | | | | | | | | |
| 2-Butanone (Methyl ethyl ketone) | mg/Kg-dry | 46,000 | 0.011 | ND | ND | ND | 0.032 | ND | ND | ND | ND |
| Acetone | mg/Kg-dry | 68,000 | 0.065 | ND | 0.040 | 0.0068 J | 0.470 | 0.0082 J | 0.053 | ND | ND |
| Benzene | mg/Kg-dry | 56 | 0.0015 J | ND | 0.00070 J | ND | ND | ND | ND | ND | ND |
| Carbon disulfide | mg/Kg-dry | 7,600 | ND | ND | ND | ND | 0.0029 J | ND | 0.0039 J | ND | ND |
| Tetrachloroethene | mg/Kg-dry | 1,500 | ND | ND | ND | 0.00084 J | ND | ND | ND | ND | ND |
| Semi-Volatile Organic Compounds | | | | | | | | | | | |
| 2-Methylnaphthalene | mg/Kg-dry | 230 | 0.011 J | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol | mg/Kg-dry | 6,100 | ND | 1.1 | ND | ND | ND | ND | ND | ND | ND |
| Acenaphthene | mg/Kg-dry | 3,400 | ND | ND | ND | ND | 0.24 | ND | ND | ND | ND |
| Acenaphthylene | mg/Kg-dry | 1,700 | ND | ND | ND | ND | ND | 0.011 | ND | ND | ND |
| Anthracene | mg/Kg-dry | 17,000 | ND | ND | ND | ND | 0.64 | ND | 0.0077 | ND | ND |
| Benzo(a)anthracene | mg/Kg-dry | 3.1 | ND | ND | ND | ND | 1.4 | ND | 0.010 | ND | ND |
| Benzo(a)pyrene | mg/Kg-dry | 2.3 | ND | ND | ND | ND | 1.3 | ND | ND | ND | ND |
| Benzo(b)fluoranthene | mg/Kg-dry | 3.1 | ND | ND | ND | ND | 1.6 | ND | 0.015 | ND | ND |
| Benzo(g,h,i)perylene | mg/Kg-dry | 170 | ND | ND | ND | ND | 0.84 | ND | ND | ND | ND |
| Benzo(k)fluoranthene | mg/Kg-dry | 31 | ND | ND | ND | ND | 0.53 | ND | 0.0070 J | ND | ND |
| Bis(2-ethylhexyl)phthalate | mg/Kg-dry | 170 | ND | ND | ND | ND | ND | 0.51 | 0.045 | ND | ND |
| Caprolactam | mg/Kg-dry | NL | ND | ND | ND | ND | 0.12 J | ND | ND | ND | ND |
| Carbazole | mg/Kg-dry | 120 | ND | ND | ND | ND | 0.33 | ND | ND | ND | ND |
| Chrysene | mg/Kg-dry | 310 | ND | ND | ND | ND | 1.2 | ND | 0.0077 | ND | ND |
| Dibenzo(a,h)anthracene | mg/Kg-dry | 0.31 | ND | ND | ND | ND | 0.17 | ND | ND | ND | ND |
| Dibenzofuran | mg/Kg-dry | 76 | ND | ND | ND | ND | 0.090 | ND | ND | ND | ND |
| Fluoranthene | mg/Kg-dry | 2,300 | ND | 0.022 | ND | ND | 3.8 | 0.11 | 0.028 | ND | ND |
| Fluorene | mg/Kg-dry | 2,300 | ND | ND | ND | ND | 0.21 | 0.079 | 0.0093 | ND | ND |
| Indeno(1,2,3-cd)pyrene | mg/Kg-dry | 3.1 | ND | ND | ND | ND | 1.0 | ND | ND | ND | ND |
| Phenanthrene | mg/Kg-dry | 1,700 | ND | 0.026 | ND | ND | 2.5 | 0.072 | 0.026 | ND | ND |
| Pyrene | mg/Kg-dry | 1,700 | ND | 0.013 | ND | ND | 2.9 | 0.12 | 0.015 | ND | ND |

Notes:

mg/Kg - milligrams per kilogram
ft bgs - feet below ground surface
NL - not listed

ND - not detected above method detection limit (MDL).

Bold value indicates a detection.

J - Analyte is present at an estimated concentration between the MDL and report limit.

Statewide Standards obtained from the Iowa Department of Natural Resources Cumulative Risk Calculator accessed here: <https://programs.iowadnr.gov/riskcalc/Home/statewidestandards>.

Green highlighting indicates a detection exceeds the Iowa Statewide Standard for soil.

Data subject to change pending final data validation.

Prepared by: KAB 11/30/2020
Checked by: BEF 12/01/2020
Reviewed by: AMF 12/01/2020

| | UNITS | Iowa Statewide Standards for a Protected Groundwater Source | Iowa Statewide Standards for a Non-Protected Groundwater Source | BH-01 | BH-02 | BH-03 | BH-04 | BH-05 | BH-06 | BH-07 | BH-08 | BH-09 |
|--|-------|---|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Date | | | | 11/12/2020 | 11/13/2020 | 11/12/2020 | 11/12/2020 | 11/13/2020 | 11/12/2020 | 11/13/2020 | 11/13/2020 | 11/12/2020 |
| ANALYTE | | | | | | | | | | | | |
| Dissolved Metals | | | | | | | | | | | | |
| Arsenic | mg/L | 0.01 | 0.05 | 0.00088 J | 0.0017 J | 0.00088 J | 0.00087 J | 0.00077 J | 0.0082 | 0.0011 J | 0.0024 J | 0.00044 J |
| Barium | mg/L | 2 | 10 | 0.41 | 0.31 | 0.31 | 0.11 | 0.15 | 0.40 | 0.37 | 0.40 | 0.40 |
| Cadmium | mg/L | 0.005 | 0.025 | 0.00046 J | ND | ND | ND | ND | 0.00022 J | 0.00022 J | 0.00029 J | 0.00022 J |
| Chromium | mg/L | 0.1 | 0.5 | ND | 0.0027 J | ND | 0.0053 | 0.0028 J | ND | ND | 0.0035 J | ND |
| Lead | mg/L | 0.015 | 0.075 | ND | ND | ND | ND | ND | ND | ND | 0.0016 J | ND |
| Selenium | mg/L | 0.05 | 0.25 | ND | 0.00083 J | ND | ND | ND | ND | ND | 0.00089 J | 0.00066 J |
| Mercury | mg/L | 0.002 | 0.010 | 0.00023 | ND | ND | ND | ND | 0.00020 | ND | ND | ND |
| Volatile Organic Compounds | | | | | | | | | | | | |
| 1,1-Dichloroethane | mg/L | 0.14 | 0.7 | ND | ND | 0.0015 | 0.0039 | 0.0075 | 0.00097 J | ND | ND | ND |
| 2-Butanone (Methyl ethyl ketone) | mg/L | 4 | 21 | ND | ND | ND | ND | ND | ND | ND | 0.00087 J | ND |
| Acetone | mg/L | 6.3 | 32 | 0.010 | 0.0062 J | ND | 0.0068 J | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | mg/L | 0.07 | 0.35 | ND | 0.0098 | 0.0084 | 0.0055 | ND | ND | ND | ND | ND |
| Tetrachloroethene | mg/L | 0.005 | 1.7 | ND | 0.00061 J | ND | 0.0070 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | mg/L | 0.1 | 0.7 | ND | ND | 0.00093 J | ND | ND | ND | ND | ND | ND |
| Trichloroethene | mg/L | 0.005 | 0.076 | ND | 0.0093 | ND | 0.0091 | ND | ND | ND | ND | ND |
| Vinyl chloride | mg/L | 0.002 | 0.01 | ND | 0.0028 | ND | ND | ND | ND | ND | ND | ND |
| Semi-Volatile Organic Compounds | | | | | | | | | | | | |
| 2,4-Dimethylphenol | mg/L | 0.10 | 0.7 | ND | 0.00072 J | ND | ND | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | mg/L | 0.028 | 0.14 | ND | 0.00016 J | ND | ND | ND | ND | ND | 0.00012 J | ND |
| Anthracene | mg/L | 2.1 | 10 | 0.00011 J | ND | ND | ND | ND | ND | ND | ND | ND |
| Butyl benzyl phthalate | mg/L | 0.14 | 1.8 | ND | ND | ND | ND | ND | ND | ND | ND | 0.00078 J |
| Caprolactam | mg/L | NL | NL | ND | ND | ND | ND | 0.0026 J | ND | ND | ND | ND |
| Diethyl phthalate | mg/L | 5.6 | 28 | ND | 0.0011 J | ND | ND | ND | ND | ND | 0.00059 J | ND |
| Fluoranthene | mg/L | 0.28 | 1.4 | 0.00031 J | 0.00023 J | ND | ND | ND | ND | ND | 0.00030 J | 0.00012 J |
| Fluorene | mg/L | 0.28 | 1.4 | 0.00024 J | 0.00015 J | ND | ND | ND | ND | ND | 0.00012 J | ND |
| Naphthalene | mg/L | 0.1 | 0.7 | ND | 0.00053 J | ND | ND | ND | ND | ND | 0.00037 J | ND |
| Phenanthrene | mg/L | 0.21 | 1 | 0.00091 J | 0.00072 J | ND | ND | ND | ND | ND | 0.00070 J | 0.00030 J |
| Pyrene | mg/L | 0.21 | 1 | 0.00017 J | 0.00017 J | ND | ND | ND | ND | ND | 0.00021 J | ND |

Notes:

mg/L - milligrams per liter

NL - Not Listed

ND - not detected above method detection limit (MDL)

Bold value indicates a detection.

J - Analyte is present at an estimated concentration between the MDL and report limit.

Statewide Standards obtained from the Iowa Department of Natural Resources Cumulative Risk Calculator accessed here: <https://programs.iowadnr.gov/riskcalc/Home/statewidestandards>.

Blue highlighting indicates a detection exceeds the Iowa Statewide Standard for a Protected Groundwater Source.

Data subject to change pending final data validation.

Prepared by: KAB 11/30/2020

Checked by: BEF 11/30/2020

Reviewed By: AMF 12/01/2020

APPENDIX A

Field Boring Logs

Golder Associates Field Boring Log

Concrete Lining 0905-0915

| | | | |
|--|---------------------------|--|-------------------------------------|
| DEPTH HOLE <u>25</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Estim Phase II</u> | BORING NO. <u>BH-01</u> |
| DEPTH SOIL DRILL <u>25</u> | GA INSP. <u>E. Sumer</u> | DRILLING METHOD <u>APC, Concrete Lining</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>6.0</u> | WEATHER <u>NA</u> | DRILLING COMPANY <u>Environmental Works Incorporated</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Bentonite</u> | | DRILL RIG <u>Geoprobe F8220T</u> | DRILLER <u>A. Stephens</u> |
| DEPTHS <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> |
| DEPTHS <u>18.47</u> / <u>NA</u> / <u>0710-11/12/20</u> / <u>NA</u> | | HOLE LOCATION <u>BH-1</u> | STARTED <u>0905 0927 11/11/20</u> |
| (DELAYED) WATER LEVEL CAVE-IN DATE-TIME NOTE | | | COMPLETED <u>0909 0951 11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|---------------------|--------------------|----------|----------------|---------------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | PLUS DESCRIPTION: | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | CL/SI PLASTICITY | COMPACT | CP 10-30 | FIRM | FM 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | SD SIZE, GRADING | DENSE | DN 30-50 | STIFF | ST 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | GL SHAPE, ROCK TYPE | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 THUMBNAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | HARD | H >4 RESISTS THUMBNAIL |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | PROPORTIONS | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | "TRACE" 0-5% | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | "SOME" 5-12% | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | PREFIX "Y" 12-35% | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | "AND" 35-50% | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|----------|---------|--|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | | |
| 1 | | 1 | DP | 7.8 | | | 0 | 4 | 99 | CO | w-pl FM | 0.05 7" Concrete Slab Core |
| 2 | | | | 8.4 | 3.8 / 5.0 | | | | | | | 3" → 12" Sand/Fill |
| 3 | | | | | | | | | | | | 1.0 → 5.0 (CL) SILTY CLAY |
| 4 | | | | 8.1 | | | | | | | | LOW-M PL Fines, 34SIZ, AC |
| 5 | | | | | | | | | | | | CO, w-pl FM |
| 6 | | | | | | | | | | | | 5.0 - 10.0 SAA EXCEPT |
| 7 | | | | | | | | | | | | colorful |
| 8 | | | | | | | | | | | | 16-17 SAA |
| 9 | | | | | | | | | | | | 17.0 → 18.0 SAA EXCEPT color to 104R/6/2 |
| 10 | | | | | | | | | | | | with 104R/6/2 matrix, soft |
| 11 | | | | | | | | | | | | 17.0 → 25.0 SAA, except moist w-pl |
| 12 | | | | | | | | | | | | occasional gravel |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | 17.0 low Sus. pebbled |
| 18 | | | | | | | | | | | | Screen from 25 → 15 ft bgs |
| 19 | | | | | | | | | | | | BH-01 Sample from 5-7 @ 100S |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |

Golder Associates Field Boring Log

7 in Concrete

| | | | |
|--|---------------------------|---|---------------------------------------|
| DEPTH HOLE <u>25 ft</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Eden Summerdale PHF</u> | BORING NO. <u>BH-02</u> |
| DEPTH SOIL DRILL <u>25 ft</u> | GA INSP. <u>E. Schwab</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>7 in</u> | WEATHER <u>NA</u> | DRILLING COMPANY <u>Environmental Works Inc</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Bentonite</u> | | DRILL RIG <u>Geoprobe 7800DT</u> | DRILLER <u>A. Stephens</u> |
| DEPTHS <u>NA</u> , <u>NA</u> , <u>NA</u> , <u>NA</u> | | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> |
| DEPTHS (DELAYED) <u>14.60</u> | WATER LEVEL <u>NA</u> | CAVE-IN <u>NA</u> | DATE-TIME <u>11/12/20</u> |
| | | | NOTE <u>NA</u> |
| | | HOLE LOCATION <u>BH-02</u> | STARTED <u>1320</u> <u>11/11/20</u> |
| | | | COMPLETED <u>1350</u> <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------------------------|--------------------|----------|----------------|--------------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | PLUS DESCRIPTION | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | CLSI PLASTICITY | COMPACT | CP 10-30 | FIRM | FM 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | SD SIZE, GRADING | DENSE | DN 30-50 | STIFF | ST 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | GL SIZE, GRADING, SHAPE, ROCK TYPE | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 THUMBAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | HARD | H >4 RESISTS THUMBAIL |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | PROPORTIONS | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | "TRACE" 0-5% | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | "SOME" 5-12% | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINERALOGY | PREFIX "-Y" 12-35% | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | "AND" 35-50% | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | CONSTITUENTS | | | BEHAVIOR | | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES | |
|-------------|-----------|---------|------|-------|--------------|---------|----|----------|-------|----------|---------|---------------------------------------|---|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC. AT | GL | SD | CL/SI | CO or NC | | | MOIST. or W |
| 1 | | | | 25.5 | 30 | | 0 | 1 | 99 | CO | WPL fm | 1000 | Very loose through to subslab into sub surface visible water + PED markings on upper teens → Billed 205 |
| 2 | | | | 7.8 | 5.0 | | | | | | | 179 | 26.2 |
| 3 | | | | | | | | | | | | | (1.0-5.0) - (U) SILTY CLAY Low - m |
| 4 | | | | 6.7 | | | | | | | | | pl fines + f sd, ca, wl-pl, fm, 101R 212. |
| 5 | | | | | | | | | | | | | (5.0-8.0) SAA. |
| 6 | | | | 7.6 | 4.1 | | | | | | | | 6.0-12.5 SAA. Except color change to 101R 612 with Fe & mpy. soft |
| 7 | | | | | | | | | | | | | 12.5-20.0 SAA Except VSF |
| 8 | | | | 6.1 | | | | | | | | | 20.0-25.0 SAA higher sand content |
| 9 | | | | | | | | | | | | | color change to 101R 714 |
| 10 | | | | | | | | | | | | | from 20.0-21.5, 21.5-25.0 101R 412 |
| 11 | | | | 5.0 | 5.0 | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | 3.3 | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | 2.0 | 2.4 | | | | | | | | |
| 17 | | | | | 5.0 | | | | | | | | |
| 18 | | | | 7.0 | | | | | | | | | |
| 19 | | | | | | | | | | | | | BH-02 |
| 20 | | | | 6.0 | | | | | | | | | Sample 0-1 @ 1403 |
| 21 | | | | | 3.1 | | 0 | 4 | 96 | CO | WPL VSF | 1000 | Well screened from 25 15-25 ft logs |
| 22 | | | | 6.8 | 5.0 | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | | | | 5.2 | | | | | | | | | |
| 25 | | | | | | | | | | | | | |

Golder Associates Field Boring Log

Dix Gamble

| | | | |
|--|-------------------------------|---|--|
| DEPTH HOLE <u>30H</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Eaton Sherwood Ph II</u> | BORING NO. <u>BH-03</u> |
| DEPTH SOIL DRILL <u>30H</u> | GA INSP. <u>E. Schmitt</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>2</u> |
| DEPTH ROCK CORE <u>10m</u> | WEATHER <u>505 Clear</u> | DRILLING COMPANY <u>Environmental Workers Inc</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Exhausted</u> | DRILL RIG <u>7522DT</u> | DRILLER <u>A. Stephens</u> | DATUM <u>NA</u> |
| DEPTHS <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> | DROP <u>NA</u> |
| DEPTHS (DELAYED) WATER LEVEL <u>11.29</u> | CAVE-IN <u>NA</u> | DATE-TIME <u>11/12/20-15:01</u> | NOTE <u>NA</u> |
| HOLE LOCATION <u>BH-03</u> | | | STARTED <u>11/23</u> / <u>11/11/20</u> |
| | | | COMPLETED <u>14:50</u> / <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | | | |
|--------------------------|------|---------------|-----|----------------------|-----|--------------------|------------------|----------------|-------------|---------|-----------------------|
| A.S. AUGER SAMPLE | ANG | ANGULAR | GR | GRAY | R | RED | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) | FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL | BLACK | HE | HETEROGENEOUS | RES | RESIDUAL | VERY LOOSE | VLS 0-4 | VERY SOFT | VS | <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR | BROWN | HO | HOMOGENEOUS | RX | ROCK | LOOSE | LS 4-10 | SOFT | S | 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C | COARSE | LYD | LAYERED | RND | ROUNDED | COMPACT | CP 10-30 | FIRM | FM | 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN | CAVE-IN | M | MEDIUM | SAT | SATURATED | DENSE | DN 30-50 | STIFF | ST | 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO | COHESIVE | MIC | MICACEOUS | SD | SAND | VERY DENSE | VDN >50 | VERY STIFF | VST | 2-4 THUMB INDENTS |
| S.C. SOIL CORE | CL | CLAY | MOT | MOTTLED | SI | SILT | | | | | |
| T.O. THIN-WALLED, OPEN | CLY | CLAYEY | MST | MOIST | SIY | SILTY | | | | | |
| T.P. THIN-WALLED, PISTON | D | DRY | NC | NON-COHESIVE | SM | SOME | | | | | |
| W.S. WASH SAMPLE | EL | ELONGATED | NP | NON-PLASTIC | TR | TRACE | | | | | |
| | F | FINE | OG | ORANGE | WL | WATER LEVEL | | | | | |
| | FL | FLAT | ORG | ORGANIC | WH | WEIGHT OF HAMMER | | | | | |
| | FRAG | FRAGMENTS | PP | POCKET PEN. | WR | WEIGHT OF RODS | | | | | |
| | GL | GRAVEL | PL | PLASTIC LIMIT | Y | YELLOW | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | CONSTITUENTS | | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES | |
|-------------|-----------|---------|------|--------------|-----------|---------|----------|----|----------|---------------------------------------|---|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | | | CL/SI |
| 1 | | | | 17.6 | 0 | 1 | 99 | LO | w-pl fm | | 0.0-5.0 (CL) SILTY CLAY Low-MPL Finest Gr: 104R 2/2, LO w-pl, fm |
| 2 | | 1 | DP | 11.8 | 2.1 | | 50 | | | | 5.0-8.0 SAA Except color to 104R 2/4 with igne base - 54R 3/4 mottled Fe shaly |
| 3 | | | | | | | | | | | 8.0-10.0 SAA Except silt |
| 4 | | | | 11.3 | | | | | | | 10.0-12.5 SAA |
| 5 | | | | | | | | | | | 12.5-24.5 suspected low / SAA Except VSTLT W ~ PL |
| 6 | | 2 | DP | 9.3 | 3.6 | | 5.0 | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | 7.2 | | | | LO | w-pl sft | | 24.5-30.0 SAA SILTY SAND 54 5/2 Og, NP fms nc, w, ce |
| 9 | | | | | | | | | | | |
| 10 | | | | 8.1 | | | | | | | Sample 2020 BH-04 1515 from 1-3 |
| 11 | | | | | | | | | | | Well Screened from 20-30 |
| 12 | | 3 | DP | 10.5 | 3.6 | 0 | 4 | 96 | CO | w-pl sft | |
| 13 | | | | | | | | | | | |
| 14 | | | | 10.1 | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | 10.1 | 2.8 | | | | | | |
| 17 | | 4 | DP | | | | | | | | |
| 18 | | | | 12.1 | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | 5 | DP | 7.9 | 3.8 | | | | | | |
| 22 | | | | | | | | | | | |

Golder Associates Field Boring Log

| | | | |
|---|---|--|---|
| DEPTH HOLE <u>30ft</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Eaton Shawandown P#4</u> | BORING NO. <u>BH-03</u> |
| DEPTH SOIL DRILL <u>30ft</u> | GA INSP. <u>E. Sullivan</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>2</u> OF <u>2</u> |
| DEPTH ROCK CORE <u>10.0</u> | WEATHER <u>50's Clear</u> | DRILLING COMPANY <u>Environmental Utilities Inc.</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>benante</u> | DRILL RIG <u>7800 DT</u> | DRILLER <u>A. Stephens</u> | DATUM <u>NA</u> |
| DEPTHS <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> | STARTED <u>1423</u> / <u>11/11/20</u> |
| DEPTHS (DELAYED) <u>11.29</u> / <u>NA</u> / <u>10223/11-12-21</u> / <u>NA</u> | WATER LEVEL (DELAYED) <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | HOLE LOCATION <u>BH-03</u> | COMPLETED <u>1450</u> / <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|--|---------------------------------|-------|----------------|-------------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | | VERY LOOSE VLS | 0-4 | VERY SOFT VS | <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | | LOOSE LS | 4-10 | SOFT S | 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | | COMPACT CP | 10-30 | FIRM FM | 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | | DENSE DN | 30-50 | STIFF ST | 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | | VERY DENSE VDN | >50 | VERY STIFF VST | 2-4 THUMB INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | HARD H | >4 RESISTS THUMBAIL |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | MOISTURE CONDITION | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | W < PL CANNOT ROLL 4 mm THREAD | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | W - PL CAN ROLL THREAD 2 - 4 mm | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROGY | | W > PL CAN ROLL THREAD <2 mm | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | DRY SOIL FLOWS | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (CO/NC) | | MOIST FEELS COOL | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | WET WITH FREE WATER | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | CONSTITUENTS | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES | | | | | | |
|-------------|-----------|---------|------|--------------|-----------|----------|----|------|---------------------------------------|----|-------|----------|-------------|----------------|--|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | | | SD | CL/SI | CO or NC | MOIST. or W | DENS. or CONS. | |
| 23.3 | | | | 9.3 | | | | | | | | | | | |
| 24.0 | | | | 3.4 | | | 0 | 4 | 96 | CO | W-PL | VST | | | |
| 24.8 | | | | 9.8 | | | | | | | | | | | |
| 25.5 | | | | 5.0 | | | 0 | 70 | 30 | ML | W | CP | | | |
| 26.2 | | | | 5.0 | | | | | | | | | | | |
| 27.0 | | | | 5.0 | | | | | | | | | | | |
| 28.0 | | | | 6.7 | | | | | | | | | | | |

Golder Associates Field Boring Log

1st Concrete

| | | | |
|--|-------------------------------|---|---------------------------------------|
| DEPTH HOLE <u>25ft</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Enter Remediation PH II</u> | BORING NO. <u>BH-04</u> |
| DEPTH SOIL DRILL <u>25ft</u> | GA INSP. <u>E. Schmidt</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>12in</u> | WEATHER <u>50's Clear</u> | DRILLING COMPANY <u>Env. remedial Works Inc</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Benlate</u> | DRILL RIG <u>7822 DT</u> | DRILLER <u>A. Stephens</u> | DATUM <u>NA</u> |
| DEPTHS <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> | STARTED <u>1610</u> / <u>11/11/20</u> |
| DEPTHS <u>14.73</u> / <u>NA</u> / <u>11/12/20-0751</u> / <u>NA</u> | HOLE LOCATION <u>BH-04</u> | COMPLETED <u>1630</u> / <u>11/11/20</u> | |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------|--------------------|-------------|----------------|-------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) | FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 | EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 | MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | COMPACT | CP 10-30 | FIRM | FM 0.5-1 | MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | DENSE | DN 30-50 | STIFF | ST 1-2 | THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 | THUMBNAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | | |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|-----------|------|---|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | | |
| 1 | | | | 2.5 | 27 | 0 | 1 | 97 | Co | w-pl fm | | (0.0-5.0) (CI) STIM CLAY, low-med # fines + f sil; 104R 212; Co, w/ PL, fm |
| 2 | | 1 | DP | 2.7 | 5.0 | | | | | | | |
| 3 | | | | | | | | | | | | 5.0-9.0 SAA Except Col or to 10x 514 |
| 4 | | | | 2.9 | | | | | | | | 9.0-10.0 SAA Except "Soft" of Discolored LL likely Iron stained material from 9.2-9.4 |
| 5 | | | | | | | | | | | | 10-11 SAA |
| 6 | | 2 | DP | 2.5 | 43 | | | | | | | 11.0-15.0 SAA Greater Sand content (+), Fe staining throughout |
| 7 | | | | | | | | | | | | |
| 8 | | | | 2.9 | | | | | | | | 15.0-20.0 SAA Except VST w-PL |
| 9 | | | | | | | | | | | | 20.0-25.0 SAA |
| 10 | | | | 3.0 | | | | | Co | w-pl sft | | |
| 11 | | | | 2.4 | | | | | | | | |
| 12 | | 3 | DP | 3.0 | 24 | 0 | 4 | 96 | | | | 5-spectred low Table |
| 13 | | | | | 5.0 | | | | | | | Well Screened From 15-25 TD = 25.0 |
| 14 | | | | 2.8 | | | | | | | | |
| 15 | | | | | | | | | | | | 2020-BH-04 (9-11) 1640 |
| 16 | | 4 | DP | 3.0 | 3.0 | | | | Co | w-pl vsft | | |
| 17 | | | | | 5.0 | | | | | | | |
| 18 | | | | 3.1 | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | 5 | DP | 2.6 | 3.5 | | | | | | | |
| 21 | | | | | 5.0 | | | | | | | |
| 22 | | | | 2.3 | | | | | | | | |

23-25-23



Golder Associates Field Boring Log

| | | | |
|---|----------------------------|---|--|
| DEPTH HOLE <u>25</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Enbridge Steamboiler PM II</u> | BORING NO. <u>BH-05</u> |
| DEPTH SOIL DRILL <u>25</u> | GA INSP. <u>E. Schuler</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>10"</u> | WEATHER <u>45°F</u> | DRILLING COMPANY <u>Environmental Works Inc</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Buried</u> | | DRILL RIG <u>Geoprobe 7822 DT</u> | DRILLER <u>A Stephens</u> |
| DEPTHS <u>NA</u> <u>NA</u> <u>NA</u> <u>NA</u> | | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> |
| DEPTHS <u>16.70</u> <u>NA</u> <u>11/12/20</u> <u>NA</u> | | HOLE LOCATION <u>BH-05</u> | STARTED <u>11/11/20</u> |
| (DELAYED) WATER LEVEL CAVE-IN DATE-TIME NOTE | | | COMPLETED <u>16:55</u> <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------|--------------------|-------------|----------------|-------------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | RELATIVE DENSITY | BLOWS | CONSISTENCY | VS | PP(TSF) FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | VERY LOOSE | VLS 0-4 | VERY SOFT | VS | <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | LOOSE | LS 4-10 | SOFT | S | 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | COMPACT | CP 10-30 | FIRM | FM | 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | DENSE | DN 30-50 | STIFF | ST | 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | VERY DENSE | VDN >50 | VERY STIFF | VST | 2-4 THUMB NAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | | |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|----------|------------|------|--|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | MOIST or W | | |
| | | | | 1 | 9.0 | 2.2 | 0 | 1 | 99 | 10 | w-pl fm | | 6.0 → 5.0 (CL) Silty clay, med PL fines f. f. sd, ca, w-pl, fm; 10% r. 2.2, |
| | | | | 2 | 9.5 | | | | | | | | 5.0 → 7.5 SAA |
| | | 1 DP | | 3 | | | | | | | | | 7.5 → 9.0 SAA Except color to 10% r. 2.2 Soft |
| | | | | 4 | 8.4 | | | | | | | | 9.0 → 10.0 SAA Except color change to 10% r. 2.2 with LB m. fly |
| | | | | 5 | | | | | | | | | 10.0 → 15.0 SAA |
| | | | | 6 | 7.9 | 4.3 | | | | | | | 12.0 → 15.0 SAA Except w-pl. |
| | | 2 DP | | 7 | | 5.0 | | | | | | | 15.0 → 20.0 SAA Except pervasive Deep Fe stain vsft |
| | | | | 8 | 7.0 | | 0 | 1 | 99 | 10 | w-pl sft | | 20.0 → 25.0 SAA, less Fe stain |
| | | | | 9 | | | | | | | | | 1-3 BH-05 1718 |
| | | | | 10 | 5.8 | | | | | | | | Well screened 15.0 → 25.0 PL fines |
| | | | | 11 | | 3.9 | | | | | | | |
| | | 3 DP | | 12 | 8.2 | 5.0 | 0 | 3 | 99 | 10 | w-pl vsft | | ✓ Suspect water locally |
| | | | | 13 | | | | | | | | | |
| | | | | 14 | 6.7 | | | | | | | | |
| | | | | 15 | | | 0 | 4 | 99 | 10 | w-pl vsft | | |
| | | 4 DP | | 16 | 6.1 | 3.9 | | | | | | | |
| | | | | 17 | | 5.0 | | | | | | | |
| | | | | 18 | | | | | | | | | |
| | | | | 19 | 5.3 | | | | | | | | |
| | | | | 20 | 6.3 | | | | | | | | |
| | | 5 DP | | 21 | | 3.2 | | | | | | | |
| | | | | 22 | | 5.0 | | | | | | | |
| | | | | 23 | 6.1 | | | | | | | | |
| | | | | 24 | | 2.1 | | | | | | | |
| | | | | 25 | | | | | | | | | |

Golder Associates Field Boring Log

| | | | |
|---|-------------------------------|---|---|
| DEPTH HOLE <u>25 ft by 3</u> | PROJ. NO. <u>20394143</u> | PROJECT <u>Eden Shumland PH II</u> | BORING NO. <u>BH-06</u> |
| DEPTH SOIL DRILL <u>25.0</u> | GA INSP. <u>E. Sullivan</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>NA</u> | WEATHER <u>30's clear</u> | DRILLING COMPANY <u>Environmental Works Inc</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Bentonia</u> | DRILL RIG <u>7822 DT</u> | DRILLER <u>A. Stephens</u> | DATUM <u>NA</u> |
| DEPTHS <u>NA</u> <u>NA</u> <u>NA</u> <u>NA</u> | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>WA</u> | DROP <u>NA</u> |
| DEPTHS <u>14.68</u> <u>NA</u> <u>11/12/20-12/11</u> <u>NA</u> | HOLE LOCATION <u>BH-06</u> | STARTED <u>0804</u> <u>11/11/20</u> | COMPLETED <u>0816</u> <u>11/12/20</u> |
| (DELAYED) WATER LEVEL | CAVE-IN | DATE-TIME | NOTE |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------|--------------------|-------------|----------------|-------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) | FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 | EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 | MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | COMPACT | CP 10-30 | FIRM | FM 0.5-1 | MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | DENSE | DN 30-50 | STIFF | ST 1-2 | THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 | THUMBNAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | | |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINERALOGY | | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (CO/NC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|------------|--------------|----|----|----------|-----------|--------|---|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | | |
| 1 | | | | 5.8 | | | 0 | 1 | 99 | co | med fm | 0.0-5.0) (CL) SILTY CLAY Low-M pl fines, soft sd, 104L 2/2; co. 42L 1/4 fm |
| 2 | | 1 | DP | 7.4 | 3.7 5.0 | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | 7.1 | | | | | | | | |
| 5 | | | | | | | | | | | | 5.0-6.5) SAA Except Change to sft color to 107R 5/4 |
| 6 | | 2 | DP | 8.9 | 3.7 5.0 | | | | | | | |
| 7 | | | | | | | | | | | | 6.5-10.0) SAA Except VSFT color to 57/5/2 tr to Steiny (LB) |
| 8 | | | | 7.9 | | | | | | | | 10.0-15.0) SAA |
| 9 | | | | | | | | | | | | 15.0-20.0) SAA Except w-ol VSFT color change * 107R 5/4 increase in sd content |
| 10 | | | | 9.5 | | | | | | | | 20.0-24.0) SAA |
| 11 | | | | | | | | | | | | |
| 12 | | 3 | DP | 8.2 | 3.0 5.0 | | | | | | | 24.0-25.0) SAA Except color change Low 57/5/2 |
| 13 | | | | | | | | | | | | |
| 14 | | | | 7.5 | | | | | | | | |
| 15 | | | | | | | | | | | | Wt suspected |
| 16 | | 4 | DP | 7.5 | | 0 | 4 | 96 | 6 | w-pl VSFT | | Sample BH-6 from 9-11 @ 0830 Well serviced from 25-215.0 ft |
| 17 | | | | | | | | | | | | |
| 18 | | | | 6.3 | 3.0 5.0 | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | 2.8 | | | | | | | | |
| 21 | | 5 | DP | | 3.6 5.0 | | | | | | | |
| 22 | | | | 3.2 | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | 2.2 | | | | | | | | |
| 25 | | | | | | | | | | | | |

Golder Associates Field Boring Log

DEPTH HOLE 25.0ft by PROJ. NO. 20394143 PROJECT Environ Remediate PHTII BORING NO. BH-07
 DEPTH SOIL DRILL 25 GA INSP. E. Schmitt DRILLING METHOD Direct Push SHEET 1 OF 1
 DEPTH ROCK CORE NA WEATHER 30's Clear DRILLING COMPANY Environmental Works Inc SURFACE ELEV. NA
 ABANDONMENT Burtonka DRILL RIG 7822DT DRILLER A. Stephens DATUM NA
 DEPTHS NA / NA / NA / NA SAMPLER HAMMER TYPE NR WT. NA DROP NA STARTED 0848 / 1112
 DEPTHS 1596 / 1112 / 1312 / NA HOLE LOCATION BH-07 COMPLETED 0905 / 1
(DELAYED) WATER LEVEL CAVE-IN DATE-TIME NOTE

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|---------------------|--------------------|----------|----------------|--------------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RED | 1) GROUP SYMBOL | | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | PLUS DESCRIPTION | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | CL/SI PLASTICITY | COMPACT | CP 10-30 | FIRM | FM 0.5-1 MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS; | SD SIZE, GRADING | DENSE | DN 30-50 | STIFF | ST 1-2 THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | GL SHAPE, ROCK TYPE | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 THUMBAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | HARD | H >4 RESISTS THUMBAIL |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | PROPORTIONS | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | "TRACE" 0-5% | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | "SOME" 5-12% | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | PREFIX "-Y" 12-35% | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | "AND" 35-50% | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|----------|------|---|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | | |
| | | | | 1 | 4.5 | | 0 | 1 | 99 | 10 | W-PL | 10.0 → 5.0 CL Silty Clay low mPL fines to f sd; 10yr 2/17; to, w-PL, fm |
| | | | | 2 | 4.3 | | | | | | | 5.0 → 6.5 SAA Except color to 10yr 4/12 |
| | | | | 3 | | | | | | | | 6.5 → 10.0 SAA Except for staining transition to soft |
| | | | | 4 | 3.1 | | | | | | | 10.0 → 12 SAA Except SAA |
| | | | | 5 | | | | | | | | 12.0 → 15.0 SAA Except Vsoft W-PL |
| | | | | 6 | 2.9 | | | | | | | 15.0 → 20.0 SAA Except increase in sand content still trace |
| | | | | 7 | | | | | | | | 20.0 → 24.5 SAA |
| | | | | 8 | 3.0 | | | | | | | 24.5 → 25.0 (SP) SAA/MS eg f f sd, no fines 10yr 5/14; to NG, W, U. |
| | | | | 9 | | | | | | | | BH-07 Sampled from 0-1 @ 0925 |
| | | | | 10 | 3.2 | | | | | | | |
| | | | | 11 | | | | | | | | |
| | | | | 12 | 2.7 | | | | | | | |
| | | | | 13 | | | | | | | | |
| | | | | 14 | 1.9 | | | | | | | |
| | | | | 15 | | | | | | | | |
| | | | | 16 | 2.3 | | 0 | 4 | 96 | | | |
| | | | | 17 | | | | | | | | |
| | | | | 18 | 1.9 | | | | | | | |
| | | | | 19 | | | | | | | | |
| | | | | 20 | 1.8 | | | | | | | |
| | | | | 21 | | | | | | | | |
| | | | | 22 | 1.7 | | | | | | | |
| | | | | 23 | | | | | | | | |
| | | | | 24 | 0.7 | | 0 | 96 | 4 | 16 | W | CP |
| | | | | 25 | | | | | | | | |



Golder Associates Field Boring Log

8" of Concrete Slab
Leaving from 1031 → 1055

| | | | |
|---|------------------------------|---|---------------------------------------|
| DEPTH HOLE <u>75</u> | PROJ. NO. <u>20294113</u> | PROJECT <u>Eaton Summitland PH 11</u> | BORING NO. <u>BH-8</u> |
| DEPTH SOIL DRILL <u>25</u> | GA INSP. <u>E. Schneider</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>8"</u> | WEATHER <u>NA</u> | DRILLING COMPANY <u>Environmental/Water Inc. Incorporated</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Bentair</u> | | DRILL RIG <u>DPT 8820</u> | DRILLER <u>A. Stephens</u> |
| DEPTHS <u>NA</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | | SAMPLER HAMMER TYPE <u>NA</u> | WT. <u>NA</u> DROP <u>NA</u> |
| DEPTHS <u>19.71</u> / <u>NA</u> / <u>NA</u> / <u>NA</u> | | HOLE LOCATION <u>BH-8, Near Alvarado Rd. 1/2 mi</u> | STARTED <u>1042</u> / <u>11/11/20</u> |
| (DELAYED) WATER LEVEL / CAVE-IN / DATE-TIME / NOTE | | | COMPLETED <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------|--------------------|-------------|----------------|-------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RESIDUAL | 1) GROUP SYMBOL | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) | FINGER PRESSURE |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 | EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 | MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | COMPACT | CP 10-30 | FIRM | FM 0.5-1 | MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | DENSE | DN 30-50 | STIFF | ST 1-2 | THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 | THUMBNAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | | |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (CONC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|----------|------------|------|--|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | MOIST or W | | |
| 0 | | 1 | DP | 14.7 | 31 | 0 | 1 | 99 | CO | 46 | PL fm | | 0.0 → 5.0 (CL) SILTY CLAY / Low med PL Fines to f sd; 10YR 4/2 with 10YR 7/2 mottling |
| 1 | | | | 16.2 | | | | | | | | | 4.0 → 10.0 SAA, Except color to 10YR 7/2 |
| 2 | | | | | | | | | | | | | 10.0 → 15.0 SAA |
| 3 | | | | | | | | | | | | | 13.7/15.0 → SAA except soft color change to 10YR 2.5/2 |
| 4 | | | | 16.3 | | | | | | | | | 15.0 → 20.0 slight increase in sd content soft w- PL |
| 5 | | 2 | DP | 15.2 | 50 | | | | | | | | 15.0 → 20.0 |
| 6 | | | | | 5.0 | | | | | | | | 20.0 → 25.0 SAA |
| 7 | | | | 14.2 | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | 12.9 | | 0 | 1 | 99 | CO | w- PL | SAT | | |
| 10 | | | | | 7.2 | | | | | | | | |
| 11 | | | | | 5.0 | | | | | | | | |
| 12 | | 3 | DP | 14.7 | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | 12.4 | | | | | | | | | |
| 15 | | | | | | 0 | 4 | 96 | CO | w- PL | SAT | | Assumed water table due to increased moisture content of soil samples |
| 16 | | 4 | DP | 13.8 | 2.3 | | | | | | | | |
| 17 | | | | | 5.0 | | | | | | | | |
| 18 | | | | 11.3 | | | | | | | | | 117 Sample from 3-5ft logs |
| 19 | | | | | | | | | | | | | |
| 20 | | | | 14.2 | | | | | | | | | 11/12/20 Dr. 11 5ft Post-Driving total depth of 20 ft in effort to reclaim as much as possible for 6W sample as possible |
| 21 | | 5 | DP | 9.9 | 5.0 | | | | | | | | Well Screened 15.8 → 25.0 |
| 22 | | | | | 5.0 | | | | | | | | |

Golder Associates Field Boring Log

1123 Regine Corby 1129 East Ave

| | | | |
|-----------------------------|----------------------------|---|--|
| DEPTH HOLE <u>25</u> | PROJ. NO. <u>20324143</u> | PROJECT <u>Eden Shumard Pt-2</u> | BORING NO. <u>BH-09</u> |
| DEPTH SOIL DRILL <u>25</u> | GA INSP. <u>E. Schmitt</u> | DRILLING METHOD <u>Direct Push</u> | SHEET <u>1</u> OF <u>1</u> |
| DEPTH ROCK CORE <u>8 in</u> | WEATHER <u>NA</u> | DRILLING COMPANY <u>Environmental Wastes Inc.</u> | SURFACE ELEV. <u>NA</u> |
| ABANDONMENT <u>Bentham</u> | DRILL RIG <u>7822 D.T.</u> | DRILLER <u>A. Stepanov</u> | DATUM <u>NA</u> |
| DEPTHS <u>NA</u> | WATER LEVEL <u>NA</u> | CAVE-IN <u>NA</u> | DATE-TIME <u>NA</u> |
| DEPTHS <u>17.65</u> | WATER LEVEL <u>NA</u> | CAVE-IN <u>NA</u> | DATE-TIME <u>11/11/20</u> |
| (DELAYED) WATER LEVEL | CAVE-IN | DATE-TIME | NOTE |
| HOLE LOCATION <u>BH-09</u> | | | COMPLETED <u>11/11/20</u> |
| | | | TIME <u>11:58</u> DATE <u>11/11/20</u> |

| SAMPLE TYPES | | ABBREVIATIONS | | ORDER OF DESCRIPTION | | NON-COHESIVE SOILS | | COHESIVE SOILS | |
|--------------------------|----------------|------------------|---------------------|----------------------------|------------------|--------------------|-------------|-------------------------|-------------------|
| A.S. AUGER SAMPLE | ANG ANGULAR | GR GRAY | R RES | 1) GROUP SYMBOL | RELATIVE DENSITY | BLOWS | CONSISTENCY | PP(TSF) FINGER PRESSURE | |
| C.S. CHUNK SAMPLE | BL BLACK | HE HETEROGENEOUS | RES RESIDUAL | 2) SOIL GROUP NAME | VERY LOOSE | VLS 0-4 | VERY SOFT | VS <0.25 | EXTRUDES |
| D.O. DRIVE OPEN (SPT) | BR BROWN | HO HOMOGENEOUS | RX ROCK | 3) PRIMARY COMPONENTS | LOOSE | LS 4-10 | SOFT | S 0.25-0.5 | MOLDS EASILY |
| D.S. DENISON SAMPLE | C COARSE | LYD LAYERED | RND ROUNDED | 4) SECONDARY COMPONENTS | COMPACT | CP 10-30 | FIRM | FM 0.5-1 | MOLDS |
| F.S. FOIL SAMPLE | CIN CAVE-IN | M MEDIUM | SAT SATURATED | 5) MINOR COMPONENTS | DENSE | DN 30-50 | STIFF | ST 1-2 | THUMB INDENTS |
| P.S. PITCHER SAMPLE | CO COHESIVE | MIC MICACEOUS | SD SAND | 6) COLOR | VERY DENSE | VDN >50 | VERY STIFF | VST 2-4 | THUMBNAIL INDENTS |
| S.C. SOIL CORE | CL CLAY | MOT MOTTLED | SI SILT | 7) WEATHERING | | | | | |
| T.O. THIN-WALLED, OPEN | CLY CLAYEY | MST MOIST | SIY SILTY | 8) STRUCTURE | | | | | |
| T.P. THIN-WALLED, PISTON | D DRY | NC NON-COHESIVE | SM SOME | 9) SENSITIVITY | | | | | |
| W.S. WASH SAMPLE | EL ELONGATED | NP NON-PLASTIC | TR TRACE | 10) CONTAMINATION | | | | | |
| | F FINE | OG ORANGE | WL WATER LEVEL | 11) MINEROLOGY | | | | | |
| | FL FLAT | ORG ORGANIC | WH WEIGHT OF HAMMER | 12) ORIGIN | | | | | |
| | FRAG FRAGMENTS | PP POCKET PEN. | WR WEIGHT OF RODS | 13) BEHAVIOR (COINC) | | | | | |
| | GL GRAVEL | PL PLASTIC LIMIT | Y YELLOW | 14) MOISTURE/WATER CONTENT | | | | | |
| | | | | 15) DENSITY/CONSISTENCY | | | | | |

| ELEV. DEPTH | LITHOLOGY | SAMPLES | | | | CONSTITUENTS | | | BEHAVIOR | | | USCS | SAMPLE DESCRIPTION AND DRILLING NOTES |
|-------------|-----------|---------|------|-------|-----------|--------------|----|----|----------|----------|-------------|------|--|
| | | NO. | TYPE | DEPTH | PID (PPM) | REC ATT | GL | SD | CL/SI | CO or NC | MOIST. or W | | |
| 1 | | 1 | DP | 4.6 | | | 0 | 1 | 99 | CO | WCL | fm | 0.0 → 5.0 (LL) SILTY CLAY 104R → MID. PL. frags, Tr f. Sd; 107R S14 with 104R 212 mottly; 104R, WCL, fm |
| 2 | | | | 3.9 | 4.1 | 5.0 | | | | | | | 2.0 → 5.0 color change to 104R 212. |
| 3 | | | | | | | | | | | | | 5.0 → 7.0 SAA except color change to |
| 4 | | | | 4.6 | | | | | | | | | 7.0 → 10.0 SAA except color change from 104R 212 → 104R 612 with 104R 212 change from fm → SFT (54R 316) |
| 5 | | | | | | | | | | | | | 10.0 → 12.0 SAA |
| 6 | | | | 5.1 | 4.8 | 5.0 | | | | | | | 12.0 → 15.0 SAA |
| 7 | | | | | | | | | | | | | |
| 8 | | 2 | DP | 4.3 | | | | | | CO | WCL | SFT | 5.0 → 20.0 SAA, except WFT, W-PL, slight Menezi in sand. |
| 9 | | | | | | | | | | | | | 20.0 → 25.0 SAA |
| 10 | | | | 4.2 | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | 3 | DP | 5.0 | 5.0 | 5.0 | | | | | | | Sample 13 → 15 @ 1210 |
| 13 | | | | | | | | | | | | | |
| 14 | | | | 5.3 | | | | | | | | | |
| 15 | | | | | | | | | | | | | Assumed to |
| 16 | | | | 5.5 | 22 | 3.0 | 0 | 4 | 96 | CO | WCL | WFT | Push Added and 5 ft to 25 ft logs on 11/12/20 |
| 17 | | | | | | | | | | | | | Well Screened from 25.0 → 15.0 |
| 18 | | 4 | DP | 5.0 | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | 5.7 | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | 5.6 | 3.5 | 5.0 | | | | | | | |

| | | | |
|---|----|----|-----|
| 5 | DP | 23 | 5.2 |
| | | 24 | |
| | | 25 | 4.9 |

APPENDIX B

Groundwater Sample Collection Forms

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Eaton Sheppard phase II Project No.: 20394143

WEATHER CONDITIONS

Temperature NA Weather NA

SAMPLE INFORMATION

Sample Location BH-01 Sample No. BH-01
 Sample Date 11/12/20 Time 1810 Sample By EMS
 Sample Method Peristaltic Sample Type GRAB

*Beaugly Pump
1849 11/11/20*

Water Level Before Purging: 72.65 21.72 - 11/11/20 18.27 - 11/12/20
 Well Volume: 0.476 barrels = 3.79 Liters
 Volume Water Removed Before Sampling: 1.5L
 Water Level Before Sampling: 18.27 - 11/12/20
 Water Level After Sampling: 13.63 11/12/20
 Appearance of Sample: Light Brown / Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|-------------------|--------------|-------------|-------------|-------------|--------|
| Time | hhmm | <u>1854</u> | | | | |
| Volume Discharge | gals ² | <u>1L</u> | | | | |
| pH | Standard | <u>7.81</u> | | | | |
| Spec. Cond. | mS/cm | <u>1087</u> | | | | |
| Turbidity | NTU | <u>170</u> | | | | |
| Temperature | °C | <u>18.8</u> | | | | |
| Dissolved Oxygen | mg/L | <u>6.43</u> | | | | |
| Redox Potential | +/- mV | <u>106.9</u> | | | | |
| Pump Rate | mL/min | <u>270</u> | | | | |
| Water Level | FT BTOC | <u>25.61</u> | | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | <u>SVOCs</u> | <u>2x1L Amber</u> | <u>No</u> | <u>None</u> |
| 2 | <u>Metals</u> | <u>1x250mL PL</u> | <u>YES</u> | <u>HNO3</u> |
| 3 | <u>VOCs</u> | <u>3x25mL Glass</u> | <u>NO</u> | <u>HCL</u> |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: Well runs dry after approximately 1.5L @ 1854

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Peristaltic Pump Air-Lift Pump
Stainless Steel Submersible Pump Other
Teflon Hand Pump

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Eaton Phase II Shenandoah Project No. : 20394143

WEATHER CONDITIONS

Temperature NA Weather NA

SAMPLE INFORMATION

Sample Location BH-2 Sample No. BH-2
 Sample Date 11/13/20 Time 12:15 Sample By AMS
 Sample Method Bailer Sample Type GRAB

Water Level Before Purging: 21.19 - 11/11/20 12.40 - 11/13/20
 Well Volume: 25ft - 21.19ft = 381 0.81 gallons = 1WV ~ 3.00 Liters
 Volume Water Removed Before Sampling: 0.1L Well Runs Dry after 1L
 Water Level Before Sampling: 12.40 - 11/13/20 11/11/20
 Water Level After Sampling: Dry
 Appearance of Sample: light brown - turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-------------|-------------|-------------|-------------|--------|
| Time | hhmm | 1814 | | | | |
| Volume Discharge | L gals | 1L | | | | |
| pH | Standard | 7.40 | | | | |
| Spec. Cond. | mS/cm | 432 | | | | |
| Turbidity | NTU | >1000 | | | | |
| Temperature | °C | 16.1 | | | | |
| Dissolved Oxygen | mg/L | 4.04 | | | | |
| Redox Potential | +/- mV | 103.7 | | | | |
| Pump Rate | mL/min | 200 | | | | |
| Water Level | FT BTOC | Dry | | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | Svoc | 2 x 1L Amber | NO | None |
| 2 | metals/filtered | 1 x 250mL PL | YES | HNO3 |
| 3 | vac's | 3 x 50mL Glass | NO | HCL |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: NO QA/QC Well Runs Dry after 1L Purging Recovery in Morning should facilitate Sampling - 11/11/20

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
 Stainless Steel
 Teflon

Peristaltic Pump
 Submersible Pump
 Hand Pump

Air-Lift Pump
 Other _____

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Edson Shearwater Ph 11 Project No.: 20319413

WEATHER CONDITIONS

Temperature 50°F Weather clear

SAMPLE INFORMATION

Sample Location BH-03 Sample No. BH-03
 Sample Date 11/21/20 Time 1115 Sample By EMS
 Sample Method Peristaltic Sample Type GRAB

Resin Purge @ 1050

Water Level Before Purging: 11.24
 Well Volume: 3.71 Gallons 2.93 Gallons
 Volume Water Removed Before Sampling: 17.5 L
 Water Level Before Sampling: 11.96
 Water Level After Sampling: 11.43
 Appearance of Sample: light brown / slightly hazy

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|--------------|--------------|--------------|--------------|--------------|
| Time | hhmm | <u>1055</u> | <u>1100</u> | <u>1105</u> | <u>1110</u> | <u>1115</u> |
| Volume Discharge | gals | <u>2.5L</u> | <u>5.0L</u> | <u>7.5</u> | <u>9.0</u> | <u>12.5</u> |
| pH | Standard | <u>7.60</u> | <u>7.51</u> | <u>7.31</u> | <u>6.95</u> | <u>6.83</u> |
| Spec. Cond. | mS/cm | <u>499.8</u> | <u>494.1</u> | <u>489.4</u> | <u>488.7</u> | <u>488.0</u> |
| Turbidity | NTU | <u>7100</u> | <u>888</u> | <u>236</u> | <u>249</u> | <u>183</u> |
| Temperature | °C | <u>14.2</u> | <u>14.1</u> | <u>14.1</u> | <u>14.1</u> | <u>14.0</u> |
| Dissolved Oxygen | mg/L | <u>1.07</u> | <u>0.98</u> | <u>0.78</u> | <u>0.65</u> | <u>0.41</u> |
| Redox Potential | +/- mV | <u>20.4</u> | <u>-7.2</u> | <u>-24.2</u> | <u>-28.2</u> | <u>-34.4</u> |
| Pump Rate | mL/min | <u>500</u> | <u>500</u> | <u>500</u> | <u>500</u> | <u>500</u> |
| Water Level | FT BTOC | <u>11.95</u> | <u>11.95</u> | <u>11.96</u> | <u>11.96</u> | <u>11.96</u> |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|------------------------|-----------------------------------|----------------------|----------------------|
| 1 | <u>SVOC</u> | <u>2x1L</u> | <u>NO</u> | <u>NONE</u> |
| 2 | <u>VOC</u> | <u>250 40x3ml</u> | <u>NO</u> | <u>HCL</u> |
| 3 | <u>metals filtered</u> | <u>250mL PL</u> | <u>YES</u> | <u>HNO3</u> |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump Air-Lift Pump Other

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Eaton Shenandoah Pit 11 Project No.: 20394143

WEATHER CONDITIONS

Temperature 50°F Weather Clear

SAMPLE INFORMATION

Sample Location BH-04 Sample No. BH-04
 Sample Date 11/12/20 Time 1310 Sample By BMS
 Sample Method Peristaltic Sample Type GRAB

*Begin Pump
e
1142*

Water Level Before Purging: 14.53
 Well Volume: 1.71 gallons 6.5L
 Volume Water Removed Before Sampling: 4L
 Water Level Before Sampling: 14.73 11/12/20, 16.41 11/13/20
 Water Level After Sampling: Dry
 Appearance of Sample: Brown/Turbid

FIELD MEASUREMENTS

Sampled VOC/Metals and 0.5 L of -11/12/20

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | SV ⁰ Sample |
|------------------|----------|-------------|-------------|-------------|-------------|------------------------|
| Time | hhmm | 1147 | 1152 | 1157 | | |
| Volume Discharge | gals/L | 1.5 | 3 | 4.5 | | |
| pH | Standard | 8.15 | 8.90 | | | |
| Spec. Cond. | mS/cm | 619 | 553 | | | |
| Turbidity | NTU | 71000 | 71000 | | | |
| Temperature | °C | 16.9 | 17.0 | | | |
| Dissolved Oxygen | mg/L | 2.73 | 3.57 | | | |
| Redox Potential | +/- mV | -243 | -475 | | | |
| Pump Rate | mL/min | 500 | 30 | | | |
| Water Level | FT BTOC | 18.15 | 21.89 | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | SIVOC | 2x1L Amber | NO | None |
| 2 | VOC | 3x40mL 6L | NO | HCL |
| 3 | Metals | 250mL PL | YES | HNO3 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: Well runs dry 11/12/20 after ~4L @ 1155

NA = Not applicable

SAMPLING METHODS:

- Bailer: PVC/PE
 Stainless Steel
 Teflon
- Peristaltic Pump
 Submersible Pump
 Hand Pump
- Air-Lift Pump
 Other _____



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: Eaton Sheppard Project No.: 203 94143

WEATHER CONDITIONS

Temperature 50'S Weather Clear - Wind

SAMPLE INFORMATION

Sample Location BH-05 Sample No. BH-5
Sample Date 11/13/20 Time 0835 Sample By EMS
Sample Method Bailer Sample Type GRAB

1211 Begin
Purge
@
300 mL/min

Water Level Before Purging: 16.24
Well Volume: 1.43 Gallons 5.41 L
Volume Water Removed Before Sampling: 3L
Water Level Before Sampling: 16.15
Water Level After Sampling: Dry
Appearance of Sample: Brown - Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-------------|-------------|-------------|-------------|--------|
| Time | hhmm | 1216 | 1221 | | | |
| Volume Discharge | L gals | 1.5L | 3L | | | |
| pH | Standard | 7.93 | 8.24 | | | |
| Spec. Cond. | mS/cm | 1009 | 836 | | | |
| Turbidity | NTU | 71000 | 71000 | | | |
| Temperature | °C | 15.9 | 16.4 | | | |
| Dissolved Oxygen | mg/L | 4.25 | 5.69 | | | |
| Redox Potential | +/- mV | 32.0 | 21.9 | | | |
| Pump Rate | mL/min | 300 | 300 | | | |
| Water Level | FT BTOC | 20.60 | Dry | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | SrOC'S | 2x1L Amber | NO | NONE |
| 2 | metals | 250ml Plastic | YES | HNO3 |
| 3 | VOC'S | 3x40mL glass | NO | HCL |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: Well Runs Dry; 11/12/2020 after 3L Purged

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Fatan Shehandaah PH11 Project No. : 20394143

WEATHER CONDITIONS

Temperature 50°F Weather Wind Clear

SAMPLE INFORMATION

Sample Location BH-06 Sample No. BH-06
 Sample Date 11/12/20 Time 1405 Sample By EMS
 Sample Method Peristaltic Sample Type GRAB

begin purge @ 1241
 Water Level Before Purging: 14.68
 Well Volume: 168 Gallons 6.35 L
 Volume Water Removed Before Sampling: 3.0 L
 Water Level Before Sampling: 18.48 - 11/12/20 16.32 - 11/13/20
 Water Level After Sampling: DRY
 Appearance of Sample: Light Brown - Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-----------------|-----------------|-------------|-------------|--------|
| Time | hhmm | <u>1246</u> | <u>1251</u> | | | |
| Volume Discharge | L gals- | <u>1.5</u> | <u>3.0</u> | | | |
| pH | Standard | <u>7.45</u> | <u>7.00</u> | | | |
| Spec. Cond. | mS/cm | <u>690</u> | <u>692</u> | | | |
| Turbidity | NTU | <u>>1000</u> | <u>>1000</u> | | | |
| Temperature | °C | <u>14.5</u> | <u>14.5</u> | | | |
| Dissolved Oxygen | mg/L | <u>2.25</u> | <u>1.77</u> | | | |
| Redox Potential | +/- mV | <u>55.6</u> | <u>39.6</u> | | | |
| Pump Rate | mL/min | <u>300</u> | <u>300</u> | | | |
| Water Level | FT BTOC | <u>17.36</u> | <u>25.62</u> | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | <u>SVOC</u> | <u>2x1L Amber</u> | <u>NO</u> | <u>NONE</u> |
| 2 | <u>Metals</u> | <u>250mL PL</u> | <u>YES</u> | <u>HNO3</u> |
| 3 | <u>VOC</u> | <u>3x40mL 6L</u> | <u>NO</u> | <u>HCL</u> |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: well runs Dry @ 1254 11/12/20

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
 Stainless Steel
 Teflon

Peristaltic Pump
 Submersible Pump
 Hand Pump

Air-Lift Pump
 Other _____

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Faber Summit Park II

Project No. : 20394143

WEATHER CONDITIONS

Temperature 40°F Weather Windy - Clear

SAMPLE INFORMATION

Sample Location BA-07 Sample No. BA-07
 Sample Date 11/12/20 Time 0730 Sample By EMS
 Sample Method Bailer Sample Type GRAB

Begin Purge @ 1312 @ 300 mL/min

Water Level Before Purging: 15.96 - 11/12/20 16.11 - 11/13/20
 Well Volume: 1.47 Gallons 556 L
 Volume Water Removed Before Sampling: 60 L
 Water Level Before Sampling: 16.11 - 11/13/20
 Water Level After Sampling: 22.98 - 11/13/20
 Appearance of Sample: Light Brown / Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-------------|-------------|-------------|-------------|--------|
| Time | hhmm | 1317 | 1322 | 1327 | 1332 | |
| Volume Discharge | gals | 1.5 | 3.0 | 4.5 | 6.0 | |
| pH | Standard | 7.02 | 6.89 | 6.85 | 6.83 | |
| Spec. Cond. | mS/cm | 614 | 612 | 592 | 605 | |
| Turbidity | NTU | >1000 | 71000 | 71000 | 21000 | |
| Temperature | °C | 13.6 | 13.6 | 13.6 | 13.6 | |
| Dissolved Oxygen | mg/L | 0.84 | 0.85 | 0.77 | 0.81 | |
| Redox Potential | +/- mV | 40.2 | -0.1 | -4.8 | -8.4 | |
| Pump Rate | mL/min | 300 | 300 | 300 | 300 | |
| Water Level | FT BTOC | 18.51 | 20.06 | 20.90 | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | SVOC | 2x1L Amber | NO | NONE |
| 2 | VOC | 3x40mL | NO | HCL |
| 3 | Metals | 250mL PL | YES | HNO3 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: Well Runs dry after Purging Volume accounted for 11-12-20

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Peristaltic Pump Air-Lift Pump
 Stainless Steel Submersible Pump Other _____
 Teflon Hand Pump



GROUNDWATER SAMPLE COLLECTION FORM

Project Ref: EATON Steamboiler-PH11

Project No. : 20394143

WEATHER CONDITIONS

Temperature NA Weather NA

SAMPLE INFORMATION

Sample Location BH-08 Sample No. B BA-08
Sample Date 11/13/20 Time 145 Sample By AMS
Sample Method Bailer Sample Type GRAB

Water Level Before Purging: 19.82

Well Volume: 0.83 Gallons → 3.14 Liters

NA

Volume Water Removed Before Sampling: NA

Water Level Before Sampling: 19.82

Water Level After Sampling: Dry

Appearance of Sample: Light Brown - Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-------------|-------------|-------------|-------------|--------|
| Time | hhmm | | | | | |
| Volume Discharge | gals | | | | | |
| pH | Standard | | | | | |
| Spec. Cond. | mS/cm | | | | | |
| Turbidity | NTU | | | | | |
| Temperature | °C | | | | | |
| Dissolved Oxygen | mg/L | | | | | |
| Redox Potential | +/- mV | | | | | |
| Pump Rate | mL/min | | | | | |
| Water Level | FT BTOC | | | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | SVOC | 1L Amber | NO | None |
| 2 | VOC | 3x40 Glass | NO | HCl |
| 3 | Metals | 250mL | YES | HNO3 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: No measurements recorded due to limited water available for samples

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE
Stainless Steel
Teflon

Peristaltic Pump
Submersible Pump
Hand Pump

Air-Lift Pump
Other _____

GROUNDWATER SAMPLE COLLECTION FORM



Project Ref: Eaton Sheppard/Don Mills P111 Project No.: 20394143

WEATHER CONDITIONS

Temperature NA Weather NA

SAMPLE INFORMATION

Sample Location BH-09 Sample No. BH-09
 Sample Date 11/12/20 Time 1840 Sample By EMS
 Sample Method Peristaltic/Bailer Sample Type GRAB

NA

Water Level Before Purging: 17.27
 Well Volume: 1.29 barrels → 4.88L
 Volume Water Removed Before Sampling: NONE
 Water Level Before Sampling: 7.65 - 11/12/20, 17.27 11/13/20
 Water Level After Sampling: DM - 11/12/20, 21.93 11/13/20
 Appearance of Sample: light Brown - Turbid

FIELD MEASUREMENTS

| Parameter | Units | Measurement | Measurement | Measurement | Measurement | Sample |
|------------------|----------|-------------|-------------|-------------|-------------|--------|
| Time | hhmm | | | | | |
| Volume Discharge | gals | | | | | |
| pH | Standard | | | | | |
| Spec. Cond. | mS/cm | | | | | |
| Turbidity | NTU | | | | | |
| Temperature | °C | | | | | |
| Dissolved Oxygen | mg/L | | | | | |
| Redox Potential | +/- mV | | | | | |
| Pump Rate | mL/min | | | | | |
| Water Level | FT BTOC | | | | | |

LABORATORY CONTAINERS

| Sub-Sample | Analysis Requested | Type and Size of Sample Container | Filtered (Yes or No) | Type of Preservative |
|------------|--------------------|-----------------------------------|----------------------|----------------------|
| 1 | SVOC | 2x1L Amber | NO | NONE |
| 2 | VOC | 3x40mL Glass | NO | HCL |
| 3 | Metals | 250mL PL | YES | HNO3 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

REMARKS: No field measurements collected due to limited Purge Volume

NA = Not applicable

SAMPLING METHODS:

- Bailer: PVC/PE
 Stainless Steel
 Teflon
- Peristaltic Pump
 Submersible Pump
 Hand Pump
- Air-Lift Pump
 Other _____

APPENDIX C

**Laboratory Analytical Data and
Data Validation Reports**



01-Dec-2020

Anne Faeth-Boyd
Golder Associates Inc.
13515 Barrett Parkway Drive
Suite 260
Ballwin, MO 63021

Re: **Golder (Phase II Eaton Shenandoah 20394143)**

Work Order: **20111403**

Dear Anne,

ALS Environmental received 10 samples on 14-Nov-2020 11:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 89.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Gary Byar

Electronically approved by: Gary Byar

Gary Byar
Project Manager

Report of Laboratory Analysis

Certificate No: IA: 403

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 20111403-01 | 2020-BH-01-(5-7) Soil | Soil | | 11/11/2020 10:05 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-02 | 2020-BH-02-(0-1) Soil | Soil | | 11/11/2020 14:03 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-03 | 2020-BH-03-(1-3) Soil | Soil | | 11/11/2020 15:15 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-04 | 2020-BH-04-(9-11) Soil | Soil | | 11/11/2020 16:40 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-05 | 2020-BH-05-(1-3) Soil | Soil | | 11/11/2020 17:18 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-06 | 2020-BH-06-(9-11) Soil | Soil | | 11/12/2020 08:30 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-07 | 2020-BH-07-(0-1) Soil | Soil | | 11/12/2020 09:25 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-08 | 2020-BH-08-(3-5) Soil | Soil | | 11/11/2020 11:17 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-09 | 2020-BH-09-(13-15) Soil | Soil | | 11/11/2020 12:10 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111403-10 | Trip Blank | Soil | | 11/11/2020 | 11/14/2020 11:00 | <input type="checkbox"/> |

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-01-(5-7) Soil
 Collection Date: 11/11/2020 10:05 AM

Work Order: 20111403
 Lab ID: 20111403-01
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|--------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | | | | | |
| | | | Method:SW7471B | | Prep: SW7471 / 11/30/20 | | Analyst: MAC |
| Mercury | 0.019 | J | 0.017 | 0.025 | mg/Kg-dry | 1 | 12/1/2020 08:26 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method:SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 6.7 | | 0.057 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| Barium | 300 | | 4.4 | 4.8 | mg/Kg-dry | 10 | 11/18/2020 15:05 |
| Cadmium | 0.63 | | 0.029 | 0.19 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| Chromium | 14 | | 0.21 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| Lead | 20 | | 0.23 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| Selenium | 2.0 | | 0.44 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| Silver | 0.079 | J | 0.063 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:12 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0066 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4,5-Trichlorophenol | | U | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4-Dinitrophenol | | U | 0.30 | 0.81 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,4-Dinitrotoluene | | U | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Chloronaphthalene | | U | 0.0057 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Chlorophenol | | U | 0.013 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Methylnaphthalene | 0.011 | | 0.0041 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Methylphenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Nitroaniline | | U | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 2-Nitrophenol | | U | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 3&4-Methylphenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 3,3'-Dichlorobenzidine | | U | 0.019 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 3-Nitroaniline | | U | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4,6-Dinitro-2-methylphenol | | U | 0.034 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Bromophenyl phenyl ether | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Chloro-3-methylphenol | | U | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Chloroaniline | | U | 0.021 | 0.082 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Chlorophenyl phenyl ether | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Nitroaniline | | U | 0.063 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| 4-Nitrophenol | | U | 0.095 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Acenaphthene | | U | 0.0059 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Acenaphthylene | | U | 0.0070 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Acetophenone | | U | 0.0064 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-01-(5-7) Soil
Collection Date: 11/11/2020 10:05 AM

Work Order: 20111403
Lab ID: 20111403-01
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|--------|--------------|---------------|-----------------|------------------|
| Anthracene | U | | 0.0057 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Atrazine | U | | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzaldehyde | U | | 0.062 | 0.082 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzo(a)anthracene | U | | 0.0070 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzo(a)pyrene | U | | 0.0050 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzo(b)fluoranthene | U | | 0.0060 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzo(g,h,i)perylene | U | | 0.0062 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Benzo(k)fluoranthene | U | | 0.0061 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Bis(2-chloroethoxy)methane | U | | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Bis(2-chloroethyl)ether | U | | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Bis(2-chloroisopropyl)ether | U | | 0.0095 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Bis(2-ethylhexyl)phthalate | U | | 0.034 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Butyl benzyl phthalate | U | | 0.051 | 0.082 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Caprolactam | U | | 0.062 | 0.082 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Carbazole | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Chrysene | U | | 0.0066 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Dibenzo(a,h)anthracene | U | | 0.0044 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Dibenzofuran | U | | 0.0060 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Diethyl phthalate | U | | 0.014 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Dimethyl phthalate | U | | 0.0079 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Di-n-butyl phthalate | U | | 0.025 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Di-n-octyl phthalate | U | | 0.035 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Fluoranthene | U | | 0.0039 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Fluorene | U | | 0.0059 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Hexachlorobenzene | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Hexachlorobutadiene | U | | 0.0096 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Hexachlorocyclopentadiene | U | | 0.038 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Hexachloroethane | U | | 0.017 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0056 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Isophorone | U | | 0.0079 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Naphthalene | U | | 0.0052 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Nitrobenzene | U | | 0.014 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| N-Nitrosodi-n-propylamine | U | | 0.0067 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| N-Nitrosodiphenylamine | U | | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Pentachlorophenol | U | | 0.032 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Phenanthrene | U | | 0.0038 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Phenol | U | | 0.020 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Pyrene | U | | 0.0077 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:02 |
| Surr: 2,4,6-Tribromophenol | 54.4 | | | 38-92 | %REC | 1 | 11/20/2020 20:02 |
| Surr: 2-Fluorobiphenyl | 52.5 | | | 44-107 | %REC | 1 | 11/20/2020 20:02 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-01-(5-7) Soil
Collection Date: 11/11/2020 10:05 AM

Work Order: 20111403
Lab ID: 20111403-01
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 70.8 | | | 37-109 | %REC | 1 | 11/20/2020 20:02 |
| Surr: 4-Terphenyl-d14 | 50.1 | S | | 52-123 | %REC | 1 | 11/20/2020 20:02 |
| Surr: Nitrobenzene-d5 | 43.8 | | | 41-94 | %REC | 1 | 11/20/2020 20:02 |
| Surr: Phenol-d6 | 77.2 | | | 28-111 | %REC | 1 | 11/20/2020 20:02 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|---|----------------|---------------|----------------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00077 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00062 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,1,2-Trichloroethane | U | | 0.00065 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0011 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,1-Dichloroethane | U | | 0.00060 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,1-Dichloroethene | U | | 0.00096 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2,4-Trichlorobenzene | U | | 0.0011 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00097 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2-Dibromoethane | U | | 0.00035 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2-Dichlorobenzene | U | | 0.00068 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2-Dichloroethane | U | | 0.00055 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,2-Dichloropropane | U | | 0.00043 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,3-Dichlorobenzene | U | | 0.00060 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 1,4-Dichlorobenzene | U | | 0.00062 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 2-Butanone | 0.011 | | 0.0050 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 2-Hexanone | U | | 0.0018 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| 4-Methyl-2-pentanone | U | | 0.0018 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Acetone | 0.065 | | 0.0045 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Benzene | 0.0015 | J | 0.00051 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Bromodichloromethane | U | | 0.00059 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Bromoform | U | | 0.00049 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Bromomethane | U | | 0.0024 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Carbon disulfide | U | | 0.00058 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Carbon tetrachloride | U | | 0.00098 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Chlorobenzene | U | | 0.00061 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Chloroethane | U | | 0.0019 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Chloroform | U | | 0.00080 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Chloromethane | U | | 0.00098 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| cis-1,2-Dichloroethene | U | | 0.00053 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| cis-1,3-Dichloropropene | U | | 0.00059 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Cyclohexane | U | | 0.0017 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Dibromochloromethane | U | | 0.00050 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Dichlorodifluoromethane | U | | 0.0024 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Ethylbenzene | U | | 0.00085 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-01-(5-7) Soil
Collection Date: 11/11/2020 10:05 AM

Work Order: 20111403
Lab ID: 20111403-01
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.00083 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Methyl acetate | U | | 0.0012 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Methyl tert-butyl ether | U | | 0.00060 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Methylcyclohexane | U | | 0.0015 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Methylene chloride | U | | 0.0060 | 0.0098 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Styrene | U | | 0.00073 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Tetrachloroethene | U | | 0.00087 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Toluene | U | | 0.00084 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| trans-1,2-Dichloroethene | U | | 0.00049 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| trans-1,3-Dichloropropene | U | | 0.00047 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Trichloroethene | U | | 0.00070 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Trichlorofluoromethane | U | | 0.00069 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Vinyl chloride | U | | 0.00068 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| Xylenes, Total | U | | 0.0021 | 0.0049 | mg/Kg-dry-dry | 0.776 | 11/24/2020 13:53 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 103 | | | 83-132 | %REC | 0.776 | 11/24/2020 13:53 |
| <i>Surr: 4-Bromofluorobenzene</i> | 100 | | | 83-111 | %REC | 0.776 | 11/24/2020 13:53 |
| <i>Surr: Dibromofluoromethane</i> | 100 | | | 77-125 | %REC | 0.776 | 11/24/2020 13:53 |
| <i>Surr: Toluene-d8</i> | 101 | | | 86-108 | %REC | 0.776 | 11/24/2020 13:53 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 20 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-02-(0-1) Soil
 Collection Date: 11/11/2020 02:03 PM

Work Order: 20111403
 Lab ID: 20111403-02
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|------------|------|----------------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | Method: SW7471B | | Prep: SW7471 / 11/17/20 | | Analyst: MAC |
| Mercury | | U | 0.017 | 0.025 | mg/Kg-dry | 1 | 11/18/2020 16:24 |
| METALS BY ICP-MS | | | Method: SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 3.6 | | 0.053 | 0.44 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| Barium | 300 | | 4.1 | 4.4 | mg/Kg-dry | 10 | 11/18/2020 15:07 |
| Cadmium | 0.29 | | 0.026 | 0.18 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| Chromium | 15 | | 0.19 | 0.44 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| Lead | 10 | | 0.21 | 0.44 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| Selenium | 2.2 | | 0.41 | 0.44 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| Silver | 0.095 | J | 0.058 | 0.44 | mg/Kg-dry | 1 | 11/17/2020 21:14 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0068 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4,5-Trichlorophenol | | U | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4-Dichlorophenol | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4-Dimethylphenol | | U | 0.022 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4-Dinitrophenol | | U | 0.31 | 0.84 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,4-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Chloronaphthalene | | U | 0.0058 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Chlorophenol | | U | 0.013 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Methylnaphthalene | | U | 0.0043 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Methylphenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Nitroaniline | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 2-Nitrophenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 3&4-Methylphenol | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 3,3'-Dichlorobenzidine | | U | 0.020 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 3-Nitroaniline | | U | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4,6-Dinitro-2-methylphenol | | U | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Bromophenyl phenyl ether | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Chloro-3-methylphenol | 1.1 | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Chloroaniline | | U | 0.021 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Chlorophenyl phenyl ether | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Nitroaniline | | U | 0.065 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| 4-Nitrophenol | | U | 0.098 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Acenaphthene | | U | 0.0060 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Acenaphthylene | | U | 0.0073 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Acetophenone | | U | 0.0065 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-02-(0-1) Soil
 Collection Date: 11/11/2020 02:03 PM

Work Order: 20111403
 Lab ID: 20111403-02
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------------|------|---------------|---------------|----------------------|-----------------|------------------|
| Anthracene | | U | 0.0059 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Atrazine | | U | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzaldehyde | | U | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzo(a)anthracene | | U | 0.0072 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzo(a)pyrene | | U | 0.0051 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzo(b)fluoranthene | | U | 0.0062 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzo(g,h,i)perylene | | U | 0.0064 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Benzo(k)fluoranthene | | U | 0.0063 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Bis(2-chloroethoxy)methane | | U | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Bis(2-chloroethyl)ether | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Bis(2-chloroisopropyl)ether | | U | 0.0098 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Bis(2-ethylhexyl)phthalate | | U | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Butyl benzyl phthalate | | U | 0.052 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Caprolactam | | U | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Carbazole | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Chrysene | | U | 0.0068 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Dibenzo(a,h)anthracene | | U | 0.0045 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Dibenzofuran | | U | 0.0061 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Diethyl phthalate | | U | 0.014 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Dimethyl phthalate | | U | 0.0082 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Di-n-butyl phthalate | | U | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Di-n-octyl phthalate | | U | 0.036 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Fluoranthene | 0.022 | | 0.0040 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Fluorene | | U | 0.0061 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Hexachlorobenzene | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Hexachlorobutadiene | | U | 0.0099 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Hexachlorocyclopentadiene | | U | 0.040 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Hexachloroethane | | U | 0.017 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Indeno(1,2,3-cd)pyrene | | U | 0.0058 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Isophorone | | U | 0.0082 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Naphthalene | | U | 0.0053 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Nitrobenzene | | U | 0.014 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| N-Nitrosodi-n-propylamine | | U | 0.0069 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| N-Nitrosodiphenylamine | | U | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Pentachlorophenol | | U | 0.033 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Phenanthrene | 0.026 | | 0.0039 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Phenol | | U | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Pyrene | 0.013 | | 0.0079 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 20:26 |
| Surr: 2,4,6-Tribromophenol | 50.2 | | | 38-92 | %REC | 1 | 11/20/2020 20:26 |
| Surr: 2-Fluorobiphenyl | 54.5 | | | 44-107 | %REC | 1 | 11/20/2020 20:26 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-02-(0-1) Soil
Collection Date: 11/11/2020 02:03 PM

Work Order: 20111403
Lab ID: 20111403-02
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|-----------------------|--------------|--------------------------------|-----------------|--------------------|
| Surr: 2-Fluorophenol | 72.2 | | | 37-109 | %REC | 1 | 11/20/2020 20:26 |
| Surr: 4-Terphenyl-d14 | 52.8 | | | 52-123 | %REC | 1 | 11/20/2020 20:26 |
| Surr: Nitrobenzene-d5 | 59.9 | | | 41-94 | %REC | 1 | 11/20/2020 20:26 |
| Surr: Phenol-d6 | 81.4 | | | 28-111 | %REC | 1 | 11/20/2020 20:26 |
| VOLATILE ORGANIC COMPOUNDS | | | Method:SW8260C | | Prep: SW5035 / 11/18/20 | | Analyst: MF |
| 1,1,1-Trichloroethane | U | | 0.021 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,1,2,2-Tetrachloroethane | U | | 0.020 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,1,2-Trichloroethane | U | | 0.019 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.029 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,1-Dichloroethane | U | | 0.017 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,1-Dichloroethene | U | | 0.015 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2,4-Trichlorobenzene | U | | 0.052 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2-Dibromo-3-chloropropane | U | | 0.042 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2-Dibromoethane | U | | 0.013 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2-Dichlorobenzene | U | | 0.017 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2-Dichloroethane | U | | 0.069 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,2-Dichloropropane | U | | 0.034 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,3-Dichlorobenzene | U | | 0.015 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 1,4-Dichlorobenzene | U | | 0.011 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 2-Butanone | U | | 0.038 | 0.31 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 2-Hexanone | U | | 0.023 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| 4-Methyl-2-pentanone | U | | 0.043 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Acetone | U | | 0.14 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Benzene | U | | 0.022 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Bromodichloromethane | U | | 0.026 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Bromoform | U | | 0.019 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Bromomethane | U | | 0.088 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Carbon disulfide | U | | 0.024 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Carbon tetrachloride | U | | 0.018 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Chlorobenzene | U | | 0.015 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Chloroethane | U | | 0.045 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Chloroform | U | | 0.017 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Chloromethane | U | | 0.13 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| cis-1,2-Dichloroethene | U | | 0.029 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| cis-1,3-Dichloropropene | U | | 0.035 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Cyclohexane | U | | 0.041 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Dibromochloromethane | U | | 0.026 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Dichlorodifluoromethane | U | | 0.055 | 0.15 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Ethylbenzene | U | | 0.0097 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-02-(0-1) Soil
Collection Date: 11/11/2020 02:03 PM

Work Order: 20111403
Lab ID: 20111403-02
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|----------------|--------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.014 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Methyl acetate | U | | 0.055 | 0.38 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Methyl tert-butyl ether | U | | 0.013 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Methylcyclohexane | U | | 0.017 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Methylene chloride | U | | 0.12 | 0.38 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Styrene | U | | 0.018 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Tetrachloroethene | U | | 0.028 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Toluene | U | | 0.013 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| trans-1,2-Dichloroethene | U | | 0.017 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| trans-1,3-Dichloropropene | U | | 0.026 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Trichloroethene | U | | 0.021 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Trichlorofluoromethane | U | | 0.023 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Vinyl chloride | U | | 0.030 | 0.046 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| Xylenes, Total | U | | 0.061 | 0.14 | mg/Kg-dry | 1 | 11/20/2020 22:35 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 104 | | | 70-130 | %REC | 1 | 11/20/2020 22:35 |
| <i>Surr: 4-Bromofluorobenzene</i> | 106 | | | 70-130 | %REC | 1 | 11/20/2020 22:35 |
| <i>Surr: Dibromofluoromethane</i> | 103 | | | 70-130 | %REC | 1 | 11/20/2020 22:35 |
| <i>Surr: Toluene-d8</i> | 102 | | | 70-130 | %REC | 1 | 11/20/2020 22:35 |
| MOISTURE | | | Method:SW3550C | | | | Analyst: KTP |
| Moisture | 21 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-03-(1-3) Soil
Collection Date: 11/11/2020 03:15 PM

Work Order: 20111403
Lab ID: 20111403-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | Method: SW7471B | | Prep: SW7471 / 11/17/20 | | Analyst: MAC |
| Mercury | | U | 0.014 | 0.020 | mg/Kg-dry | 1 | 11/18/2020 16:26 |
| METALS BY ICP-MS | | | Method: SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 5.6 | | 0.054 | 0.45 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| Barium | 280 | | 4.1 | 4.5 | mg/Kg-dry | 10 | 11/18/2020 15:08 |
| Cadmium | 0.24 | | 0.027 | 0.18 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| Chromium | 12 | | 0.20 | 0.45 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| Lead | 15 | | 0.21 | 0.45 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| Selenium | 1.8 | | 0.41 | 0.45 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| Silver | 0.063 | J | 0.059 | 0.45 | mg/Kg-dry | 1 | 11/17/2020 21:16 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0065 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4,5-Trichlorophenol | | U | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4-Dinitrophenol | | U | 0.29 | 0.80 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,4-Dinitrotoluene | | U | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2,6-Dinitrotoluene | | U | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Chloronaphthalene | | U | 0.0056 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Chlorophenol | | U | 0.013 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Methylnaphthalene | | U | 0.0041 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Methylphenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Nitroaniline | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 2-Nitrophenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 3&4-Methylphenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 3,3'-Dichlorobenzidine | | U | 0.019 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 3-Nitroaniline | | U | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4,6-Dinitro-2-methylphenol | | U | 0.033 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Bromophenyl phenyl ether | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Chloro-3-methylphenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Chloroaniline | | U | 0.020 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Chlorophenyl phenyl ether | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Nitroaniline | | U | 0.062 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| 4-Nitrophenol | | U | 0.094 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Acenaphthene | | U | 0.0058 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Acenaphthylene | | U | 0.0069 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Acetophenone | | U | 0.0063 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-03-(1-3) Soil
Collection Date: 11/11/2020 03:15 PM

Work Order: 20111403
Lab ID: 20111403-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|--------|--------------|---------------|-----------------|------------------|
| Anthracene | U | | 0.0056 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Atrazine | U | | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzaldehyde | U | | 0.062 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzo(a)anthracene | U | | 0.0069 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzo(a)pyrene | U | | 0.0049 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzo(b)fluoranthene | U | | 0.0060 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzo(g,h,i)perylene | U | | 0.0061 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Benzo(k)fluoranthene | U | | 0.0061 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Bis(2-chloroethoxy)methane | U | | 0.025 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Bis(2-chloroethyl)ether | U | | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Bis(2-chloroisopropyl)ether | U | | 0.0094 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Bis(2-ethylhexyl)phthalate | U | | 0.033 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Butyl benzyl phthalate | U | | 0.050 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Caprolactam | U | | 0.062 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Carbazole | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Chrysene | U | | 0.0065 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Dibenzo(a,h)anthracene | U | | 0.0043 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Dibenzofuran | U | | 0.0059 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Diethyl phthalate | U | | 0.014 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Dimethyl phthalate | U | | 0.0078 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Di-n-butyl phthalate | U | | 0.025 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Di-n-octyl phthalate | U | | 0.035 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Fluoranthene | U | | 0.0038 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Fluorene | U | | 0.0058 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Hexachlorobenzene | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Hexachlorobutadiene | U | | 0.0094 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Hexachlorocyclopentadiene | U | | 0.038 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Hexachloroethane | U | | 0.017 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0056 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Isophorone | U | | 0.0078 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Naphthalene | U | | 0.0051 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Nitrobenzene | U | | 0.013 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| N-Nitrosodi-n-propylamine | U | | 0.0066 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| N-Nitrosodiphenylamine | U | | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Pentachlorophenol | U | | 0.032 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Phenanthrene | U | | 0.0037 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Phenol | U | | 0.020 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Pyrene | U | | 0.0076 | 0.0080 | mg/Kg-dry-dry | 1 | 11/20/2020 20:50 |
| Surr: 2,4,6-Tribromophenol | | 47.6 | | 38-92 | %REC | 1 | 11/20/2020 20:50 |
| Surr: 2-Fluorobiphenyl | | 53.5 | | 44-107 | %REC | 1 | 11/20/2020 20:50 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-03-(1-3) Soil
Collection Date: 11/11/2020 03:15 PM

Work Order: 20111403
Lab ID: 20111403-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 69.3 | | | 37-109 | %REC | 1 | 11/20/2020 20:50 |
| Surr: 4-Terphenyl-d14 | 45.0 | S | | 52-123 | %REC | 1 | 11/20/2020 20:50 |
| Surr: Nitrobenzene-d5 | 62.1 | | | 41-94 | %REC | 1 | 11/20/2020 20:50 |
| Surr: Phenol-d6 | 76.6 | | | 28-111 | %REC | 1 | 11/20/2020 20:50 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|----------------|---|----------------|---------------|----------------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00083 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00067 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,1,2-Trichloroethane | U | | 0.00070 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0012 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,1-Dichloroethane | U | | 0.00065 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,1-Dichloroethene | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2,4-Trichlorobenzene | U | | 0.0012 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2-Dibromo-3-chloropropane | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2-Dibromoethane | U | | 0.00038 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2-Dichlorobenzene | U | | 0.00073 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2-Dichloroethane | U | | 0.00059 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,2-Dichloropropane | U | | 0.00046 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,3-Dichlorobenzene | U | | 0.00064 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 1,4-Dichlorobenzene | U | | 0.00067 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 2-Butanone | U | | 0.0053 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 2-Hexanone | U | | 0.0019 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| 4-Methyl-2-pentanone | U | | 0.0019 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Acetone | 0.040 | | 0.0048 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Benzene | 0.00070 | J | 0.00054 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Bromodichloromethane | U | | 0.00063 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Bromoform | U | | 0.00052 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Bromomethane | U | | 0.0026 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Carbon disulfide | U | | 0.00062 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Carbon tetrachloride | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Chlorobenzene | U | | 0.00066 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Chloroethane | U | | 0.0020 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Chloroform | U | | 0.00086 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Chloromethane | U | | 0.0010 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| cis-1,2-Dichloroethene | U | | 0.00057 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| cis-1,3-Dichloropropene | U | | 0.00063 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Cyclohexane | U | | 0.0018 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Dibromochloromethane | U | | 0.00053 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Dichlorodifluoromethane | U | | 0.0026 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Ethylbenzene | U | | 0.00091 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-03-(1-3) Soil
Collection Date: 11/11/2020 03:15 PM

Work Order: 20111403
Lab ID: 20111403-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.00089 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Methyl acetate | U | | 0.0013 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Methyl tert-butyl ether | U | | 0.00064 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Methylcyclohexane | U | | 0.0016 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Methylene chloride | U | | 0.0065 | 0.010 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Styrene | U | | 0.00079 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Tetrachloroethene | U | | 0.00093 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Toluene | U | | 0.00090 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| trans-1,2-Dichloroethene | U | | 0.00052 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| trans-1,3-Dichloropropene | U | | 0.00050 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Trichloroethene | U | | 0.00075 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Trichlorofluoromethane | U | | 0.00074 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Vinyl chloride | U | | 0.00073 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| Xylenes, Total | U | | 0.0023 | 0.0052 | mg/Kg-dry-dry | 0.836 | 11/24/2020 14:10 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 102 | | | 83-132 | %REC | 0.836 | 11/24/2020 14:10 |
| <i>Surr: 4-Bromofluorobenzene</i> | 104 | | | 83-111 | %REC | 0.836 | 11/24/2020 14:10 |
| <i>Surr: Dibromofluoromethane</i> | 105 | | | 77-125 | %REC | 0.836 | 11/24/2020 14:10 |
| <i>Surr: Toluene-d8</i> | 103 | | | 86-108 | %REC | 0.836 | 11/24/2020 14:10 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 20 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-04-(9-11) Soil
 Collection Date: 11/11/2020 04:40 PM

Work Order: 20111403
 Lab ID: 20111403-04
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|--------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | | | | | |
| | | | Method:SW7471B | | Prep: SW7471 / 11/17/20 | | Analyst: MAC |
| Mercury | 0.029 | | 0.017 | 0.025 | mg/Kg-dry | 1 | 11/18/2020 16:28 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method:SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 1.4 | | 0.057 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Barium | 160 | | 0.44 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Cadmium | 0.10 | J | 0.029 | 0.19 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Chromium | 13 | | 0.21 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Lead | 9.7 | | 0.23 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Selenium | 1.8 | | 0.44 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| Silver | 0.088 | J | 0.063 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:18 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0067 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4,5-Trichlorophenol | | U | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4-Dinitrophenol | | U | 0.30 | 0.83 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,4-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Chloronaphthalene | | U | 0.0058 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Chlorophenol | | U | 0.013 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Methylnaphthalene | | U | 0.0042 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Methylphenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Nitroaniline | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 2-Nitrophenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 3&4-Methylphenol | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 3,3'-Dichlorobenzidine | | U | 0.019 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 3-Nitroaniline | | U | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4,6-Dinitro-2-methylphenol | | U | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Bromophenyl phenyl ether | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Chloro-3-methylphenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Chloroaniline | | U | 0.021 | 0.083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Chlorophenyl phenyl ether | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Nitroaniline | | U | 0.064 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| 4-Nitrophenol | | U | 0.097 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Acenaphthene | | U | 0.0060 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Acenaphthylene | | U | 0.0072 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Acetophenone | | U | 0.0065 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-04-(9-11) Soil
Collection Date: 11/11/2020 04:40 PM

Work Order: 20111403
Lab ID: 20111403-04
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|--------|--------------|---------------|-----------------|------------------|
| Anthracene | U | | 0.0058 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Atrazine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzaldehyde | U | | 0.064 | 0.083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzo(a)anthracene | U | | 0.0071 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzo(a)pyrene | U | | 0.0051 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzo(b)fluoranthene | U | | 0.0062 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzo(g,h,i)perylene | U | | 0.0063 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Benzo(k)fluoranthene | U | | 0.0063 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Bis(2-chloroethoxy)methane | U | | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Bis(2-chloroethyl)ether | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Bis(2-chloroisopropyl)ether | U | | 0.0097 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Bis(2-ethylhexyl)phthalate | U | | 0.034 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Butyl benzyl phthalate | U | | 0.052 | 0.083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Caprolactam | U | | 0.064 | 0.083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Carbazole | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Chrysene | U | | 0.0067 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Dibenzo(a,h)anthracene | U | | 0.0045 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Dibenzofuran | U | | 0.0061 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Diethyl phthalate | U | | 0.014 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Dimethyl phthalate | U | | 0.0081 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Di-n-butyl phthalate | U | | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Di-n-octyl phthalate | U | | 0.036 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Fluoranthene | U | | 0.0040 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Fluorene | U | | 0.0060 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Hexachlorobenzene | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Hexachlorobutadiene | U | | 0.0097 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Hexachlorocyclopentadiene | U | | 0.039 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Hexachloroethane | U | | 0.017 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0058 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Isophorone | U | | 0.0081 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Naphthalene | U | | 0.0053 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Nitrobenzene | U | | 0.014 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| N-Nitrosodi-n-propylamine | U | | 0.0068 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| N-Nitrosodiphenylamine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Pentachlorophenol | U | | 0.033 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Phenanthrene | U | | 0.0038 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Phenol | U | | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Pyrene | U | | 0.0078 | 0.0083 | mg/Kg-dry-dry | 1 | 11/20/2020 21:14 |
| Surr: 2,4,6-Tribromophenol | 68.5 | | | 38-92 | %REC | 1 | 11/20/2020 21:14 |
| Surr: 2-Fluorobiphenyl | 74.7 | | | 44-107 | %REC | 1 | 11/20/2020 21:14 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-04-(9-11) Soil
Collection Date: 11/11/2020 04:40 PM

Work Order: 20111403
Lab ID: 20111403-04
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 69.2 | | | 37-109 | %REC | 1 | 11/20/2020 21:14 |
| Surr: 4-Terphenyl-d14 | 78.4 | | | 52-123 | %REC | 1 | 11/20/2020 21:14 |
| Surr: Nitrobenzene-d5 | 72.5 | | | 41-94 | %REC | 1 | 11/20/2020 21:14 |
| Surr: Phenol-d6 | 76.8 | | | 28-111 | %REC | 1 | 11/20/2020 21:14 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|---------------|---------------|----------------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00074 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00060 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,1,2-Trichloroethane | U | | 0.00063 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0010 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,1-Dichloroethane | U | | 0.00058 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,1-Dichloroethene | U | | 0.00092 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2,4-Trichlorobenzene | U | | 0.0010 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00093 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2-Dibromoethane | U | | 0.00034 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2-Dichlorobenzene | U | | 0.00066 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2-Dichloroethane | U | | 0.00053 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,2-Dichloropropane | U | | 0.00041 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,3-Dichlorobenzene | U | | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 1,4-Dichlorobenzene | U | | 0.00060 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 2-Butanone | U | | 0.0048 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 2-Hexanone | U | | 0.0017 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| 4-Methyl-2-pentanone | U | | 0.0017 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Acetone | 0.0068 | J | 0.0043 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Benzene | U | | 0.00049 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Bromodichloromethane | U | | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Bromoform | U | | 0.00047 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Bromomethane | U | | 0.0024 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Carbon disulfide | U | | 0.00056 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Carbon tetrachloride | U | | 0.00094 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Chlorobenzene | U | | 0.00059 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Chloroethane | U | | 0.0018 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Chloroform | U | | 0.00077 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Chloromethane | U | | 0.00094 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| cis-1,2-Dichloroethene | U | | 0.00051 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Cyclohexane | U | | 0.0016 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Dibromochloromethane | U | | 0.00048 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Dichlorodifluoromethane | U | | 0.0024 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Ethylbenzene | U | | 0.00082 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-04-(9-11) Soil
Collection Date: 11/11/2020 04:40 PM

Work Order: 20111403
Lab ID: 20111403-04
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|----------------|------|----------------|---------------|----------------------|-----------------|---------------------|
| Isopropylbenzene | | U | 0.00080 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Methyl acetate | | U | 0.0011 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Methyl tert-butyl ether | | U | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Methylcyclohexane | | U | 0.0014 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Methylene chloride | | U | 0.0058 | 0.0094 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Styrene | | U | 0.00071 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Tetrachloroethene | 0.00084 | J | 0.00084 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Toluene | | U | 0.00081 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| trans-1,2-Dichloroethene | | U | 0.00047 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| trans-1,3-Dichloropropene | | U | 0.00045 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Trichloroethene | | U | 0.00068 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Trichlorofluoromethane | | U | 0.00067 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Vinyl chloride | | U | 0.00066 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| Xylenes, Total | | U | 0.0021 | 0.0047 | mg/Kg-dry-dry | 0.747 | 11/24/2020 14:26 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 108 | | | 83-132 | %REC | 0.747 | 11/24/2020 14:26 |
| <i>Surr: 4-Bromofluorobenzene</i> | 104 | | | 83-111 | %REC | 0.747 | 11/24/2020 14:26 |
| <i>Surr: Dibromofluoromethane</i> | 106 | | | 77-125 | %REC | 0.747 | 11/24/2020 14:26 |
| <i>Surr: Toluene-d8</i> | 95.9 | | | 86-108 | %REC | 0.747 | 11/24/2020 14:26 |
| MOISTURE | | | | | | | Analyst: KTP |
| Moisture | 21 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-05-(1-3) Soil
 Collection Date: 11/11/2020 05:18 PM

Work Order: 20111403
 Lab ID: 20111403-05
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|--------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | | | | | |
| | | | Method:SW7471B | | Prep: SW7471 / 11/18/20 | | Analyst: MAC |
| Mercury | 0.017 | J | 0.016 | 0.023 | mg/Kg-dry | 1 | 11/18/2020 19:03 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method:SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 5.6 | | 0.062 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Barium | 130 | | 0.47 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Cadmium | 0.16 | J | 0.031 | 0.21 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Chromium | 9.1 | | 0.23 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Lead | 10 | | 0.25 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Selenium | 1.4 | | 0.47 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| Silver | U | | 0.068 | 0.51 | mg/Kg-dry | 1 | 11/17/2020 21:20 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | U | | 0.012 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4,5-Trichlorophenol | U | | 0.044 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4,6-Trichlorophenol | U | | 0.020 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4-Dichlorophenol | U | | 0.040 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4-Dimethylphenol | U | | 0.038 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4-Dinitrophenol | U | | 0.54 | 1.5 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,4-Dinitrotoluene | U | | 0.048 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2,6-Dinitrotoluene | U | | 0.048 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Chloronaphthalene | U | | 0.010 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Chlorophenol | U | | 0.023 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Methylnaphthalene | U | | 0.0075 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Methylphenol | U | | 0.020 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Nitroaniline | U | | 0.041 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 2-Nitrophenol | U | | 0.021 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 3&4-Methylphenol | U | | 0.040 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 3,3'-Dichlorobenzidine | U | | 0.035 | 0.37 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 3-Nitroaniline | U | | 0.043 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4,6-Dinitro-2-methylphenol | U | | 0.062 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Bromophenyl phenyl ether | U | | 0.041 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Chloro-3-methylphenol | U | | 0.021 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Chloroaniline | U | | 0.038 | 0.15 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Chlorophenyl phenyl ether | U | | 0.020 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Nitroaniline | U | | 0.11 | 0.37 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| 4-Nitrophenol | U | | 0.17 | 0.37 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Acenaphthene | 0.24 | | 0.011 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Acenaphthylene | U | | 0.013 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Acetophenone | U | | 0.012 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-05-(1-3) Soil
Collection Date: 11/11/2020 05:18 PM

Work Order: 20111403
Lab ID: 20111403-05
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------|--------------|------|---------------|--------------|----------------------|-----------------|------------------|
| Anthracene | 0.64 | | 0.010 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Atrazine | U | | 0.043 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzaldehyde | U | | 0.11 | 0.15 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzo(a)anthracene | 1.4 | | 0.013 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzo(a)pyrene | 1.3 | | 0.0091 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzo(b)fluoranthene | 1.6 | | 0.011 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzo(g,h,i)perylene | 0.84 | | 0.011 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Benzo(k)fluoranthene | 0.53 | | 0.011 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Bis(2-chloroethoxy)methane | U | | 0.047 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Bis(2-chloroethyl)ether | U | | 0.021 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Bis(2-chloroisopropyl)ether | U | | 0.017 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Bis(2-ethylhexyl)phthalate | U | | 0.061 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Butyl benzyl phthalate | U | | 0.093 | 0.15 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Caprolactam | 0.12 | J | 0.11 | 0.15 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Carbazole | 0.33 | | 0.022 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Chrysene | 1.2 | | 0.012 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Dibenzo(a,h)anthracene | 0.17 | | 0.0080 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Dibenzofuran | 0.090 | | 0.011 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Diethyl phthalate | U | | 0.025 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Dimethyl phthalate | U | | 0.014 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Di-n-butyl phthalate | U | | 0.045 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Di-n-octyl phthalate | U | | 0.064 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Fluoranthene | 3.8 | | 0.0071 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Fluorene | 0.21 | | 0.011 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Hexachlorobenzene | U | | 0.022 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Hexachlorobutadiene | U | | 0.017 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Hexachlorocyclopentadiene | U | | 0.070 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Hexachloroethane | U | | 0.031 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Indeno(1,2,3-cd)pyrene | 1.0 | | 0.010 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Isophorone | U | | 0.014 | 0.37 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Naphthalene | U | | 0.0095 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Nitrobenzene | U | | 0.025 | 0.37 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| N-Nitrosodi-n-propylamine | U | | 0.012 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| N-Nitrosodiphenylamine | U | | 0.042 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Pentachlorophenol | U | | 0.059 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Phenanthrene | 2.5 | | 0.0069 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Phenol | U | | 0.037 | 0.073 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Pyrene | 2.9 | | 0.014 | 0.015 | mg/Kg-dry-dry | 1 | 11/20/2020 21:37 |
| Surr: 2,4,6-Tribromophenol | 78.2 | | | 38-92 | %REC | 1 | 11/20/2020 21:37 |
| Surr: 2-Fluorobiphenyl | 70.2 | | | 44-107 | %REC | 1 | 11/20/2020 21:37 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-05-(1-3) Soil
Collection Date: 11/11/2020 05:18 PM

Work Order: 20111403
Lab ID: 20111403-05
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 79.2 | | | 37-109 | %REC | 1 | 11/20/2020 21:37 |
| Surr: 4-Terphenyl-d14 | 76.7 | | | 52-123 | %REC | 1 | 11/20/2020 21:37 |
| Surr: Nitrobenzene-d5 | 75.2 | | | 41-94 | %REC | 1 | 11/20/2020 21:37 |
| Surr: Phenol-d6 | 89.5 | | | 28-111 | %REC | 1 | 11/20/2020 21:37 |

VOLATILE ORGANIC COMPOUNDS

Method:SW8260C

Prep: SW5035 / 11/18/20

Analyst: MF

| | | | | | | | |
|-----------------------------|-------------|--|-------------|-------------|------------------|---|------------------|
| Acetone | 0.47 | | 0.14 | 0.16 | mg/Kg-dry | 1 | 11/20/2020 23:23 |
| Surr: 1,2-Dichloroethane-d4 | 104 | | | 70-130 | %REC | 1 | 11/20/2020 23:23 |
| Surr: 4-Bromofluorobenzene | 105 | | | 70-130 | %REC | 1 | 11/20/2020 23:23 |
| Surr: Dibromofluoromethane | 99.7 | | | 70-130 | %REC | 1 | 11/20/2020 23:23 |
| Surr: Toluene-d8 | 102 | | | 70-130 | %REC | 1 | 11/20/2020 23:23 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method:SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|----------------|---------------|----------------------|------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00095 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00077 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,1,2-Trichloroethane | U | | 0.00081 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0013 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,1-Dichloroethane | U | | 0.00075 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,1-Dichloroethene | U | | 0.0012 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2,4-Trichlorobenzene | U | | 0.0013 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2-Dibromo-3-chloropropane | U | | 0.0012 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2-Dibromoethane | U | | 0.00043 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2-Dichlorobenzene | U | | 0.00084 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2-Dichloroethane | U | | 0.00067 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,2-Dichloropropane | U | | 0.00053 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,3-Dichlorobenzene | U | | 0.00073 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 1,4-Dichlorobenzene | U | | 0.00077 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 2-Butanone | 0.032 | | 0.0061 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 2-Hexanone | U | | 0.0022 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| 4-Methyl-2-pentanone | U | | 0.0022 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Benzene | U | | 0.00063 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Bromodichloromethane | U | | 0.00072 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Bromoform | U | | 0.00060 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Bromomethane | U | | 0.0030 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Carbon disulfide | 0.0029 | J | 0.00071 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Carbon tetrachloride | U | | 0.0012 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Chlorobenzene | U | | 0.00076 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Chloroethane | U | | 0.0023 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Chloroform | U | | 0.00099 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Chloromethane | U | | 0.0012 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| cis-1,2-Dichloroethene | U | | 0.00065 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-05-(1-3) Soil
Collection Date: 11/11/2020 05:18 PM

Work Order: 20111403
Lab ID: 20111403-05
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|-----------|---------|-----------------------|-------------------------|-----------------|-------------------------|
| cis-1,3-Dichloropropene | U | | 0.00072 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Cyclohexane | U | | 0.0020 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Dibromochloromethane | U | | 0.00061 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Dichlorodifluoromethane | U | | 0.0030 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Ethylbenzene | U | | 0.0010 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Isopropylbenzene | U | | 0.0010 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Methyl acetate | U | | 0.0014 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Methyl tert-butyl ether | U | | 0.00073 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Methylcyclohexane | U | | 0.0018 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Methylene chloride | U | | 0.0075 | 0.012 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Styrene | U | | 0.00090 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Tetrachloroethene | U | | 0.0011 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Toluene | U | | 0.0010 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| trans-1,2-Dichloroethene | U | | 0.00060 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| trans-1,3-Dichloropropene | U | | 0.00058 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Trichloroethene | U | | 0.00087 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Trichlorofluoromethane | U | | 0.00085 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Vinyl chloride | U | | 0.00084 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Xylenes, Total | U | | 0.0026 | 0.0060 | mg/Kg-dry-dry | 0.87 | 11/24/2020 14:43 |
| Surr: 1,2-Dichloroethane-d4 | | 108 | | 83-132 | %REC | 0.87 | 11/24/2020 14:43 |
| Surr: 4-Bromofluorobenzene | | 102 | | 83-111 | %REC | 0.87 | 11/24/2020 14:43 |
| Surr: Dibromofluoromethane | | 104 | | 77-125 | %REC | 0.87 | 11/24/2020 14:43 |
| Surr: Toluene-d8 | | 98.8 | | 86-108 | %REC | 0.87 | 11/24/2020 14:43 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | | 28 | | 0.10 | 0.10 % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-06-(9-11) Soil
Collection Date: 11/12/2020 08:30 AM

Work Order: 20111403
Lab ID: 20111403-06
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|--------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | Method:SW7471B | | Prep: SW7471 / 11/18/20 | | Analyst: MAC |
| Mercury | 0.047 | | 0.015 | 0.022 | mg/Kg-dry | 1 | 11/18/2020 19:05 |
| METALS BY ICP-MS | | | Method:SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 8.6 | | 0.055 | 0.46 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| Barium | 150 | | 4.2 | 4.6 | mg/Kg-dry | 10 | 11/18/2020 15:10 |
| Cadmium | 0.16 | J | 0.027 | 0.18 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| Chromium | 13 | | 0.20 | 0.46 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| Lead | 20 | | 0.22 | 0.46 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| Selenium | 1.9 | | 0.42 | 0.46 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| Silver | 0.090 | J | 0.060 | 0.46 | mg/Kg-dry | 1 | 11/17/2020 21:21 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method:SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0068 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4,5-Trichlorophenol | | U | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4-Dinitrophenol | | U | 0.31 | 0.84 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,4-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Chloronaphthalene | | U | 0.0058 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Chlorophenol | | U | 0.013 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Methylnaphthalene | | U | 0.0043 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Methylphenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Nitroaniline | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 2-Nitrophenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 3&4-Methylphenol | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 3,3'-Dichlorobenzidine | | U | 0.020 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 3-Nitroaniline | | U | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4,6-Dinitro-2-methylphenol | | U | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Bromophenyl phenyl ether | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Chloro-3-methylphenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Chloroaniline | | U | 0.021 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Chlorophenyl phenyl ether | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Nitroaniline | | U | 0.065 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| 4-Nitrophenol | | U | 0.098 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Acenaphthene | | U | 0.0060 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Acenaphthylene | 0.011 | | 0.0072 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Acetophenone | | U | 0.0065 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-06-(9-11) Soil
 Collection Date: 11/12/2020 08:30 AM

Work Order: 20111403
 Lab ID: 20111403-06
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------------|------|---------------|---------------|----------------------|-----------------|------------------|
| Anthracene | U | | 0.0059 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Atrazine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzaldehyde | U | | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzo(a)anthracene | U | | 0.0072 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzo(a)pyrene | U | | 0.0051 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzo(b)fluoranthene | U | | 0.0062 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzo(g,h,i)perylene | U | | 0.0064 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Benzo(k)fluoranthene | U | | 0.0063 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Bis(2-chloroethoxy)methane | U | | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Bis(2-chloroethyl)ether | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Bis(2-chloroisopropyl)ether | U | | 0.0098 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Bis(2-ethylhexyl)phthalate | 0.51 | | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Butyl benzyl phthalate | U | | 0.052 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Caprolactam | U | | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Carbazole | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Chrysene | U | | 0.0068 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Dibenzo(a,h)anthracene | U | | 0.0045 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Dibenzofuran | U | | 0.0061 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Diethyl phthalate | U | | 0.014 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Dimethyl phthalate | U | | 0.0082 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Di-n-butyl phthalate | U | | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Di-n-octyl phthalate | U | | 0.036 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Fluoranthene | 0.11 | | 0.0040 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Fluorene | 0.079 | | 0.0061 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Hexachlorobenzene | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Hexachlorobutadiene | U | | 0.0098 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Hexachlorocyclopentadiene | U | | 0.040 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Hexachloroethane | U | | 0.017 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0058 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Isophorone | U | | 0.0082 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Naphthalene | U | | 0.0053 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Nitrobenzene | U | | 0.014 | 0.21 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| N-Nitrosodi-n-propylamine | U | | 0.0069 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| N-Nitrosodiphenylamine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Pentachlorophenol | U | | 0.033 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Phenanthrene | 0.072 | | 0.0039 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Phenol | U | | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Pyrene | 0.12 | | 0.0079 | 0.0084 | mg/Kg-dry-dry | 1 | 11/20/2020 22:01 |
| Surr: 2,4,6-Tribromophenol | 84.5 | | | 38-92 | %REC | 1 | 11/20/2020 22:01 |
| Surr: 2-Fluorobiphenyl | 76.4 | | | 44-107 | %REC | 1 | 11/20/2020 22:01 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-06-(9-11) Soil
 Collection Date: 11/12/2020 08:30 AM

Work Order: 20111403
 Lab ID: 20111403-06
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 65.1 | | | 37-109 | %REC | 1 | 11/20/2020 22:01 |
| Surr: 4-Terphenyl-d14 | 83.7 | | | 52-123 | %REC | 1 | 11/20/2020 22:01 |
| Surr: Nitrobenzene-d5 | 47.4 | | | 41-94 | %REC | 1 | 11/20/2020 22:01 |
| Surr: Phenol-d6 | 74.3 | | | 28-111 | %REC | 1 | 11/20/2020 22:01 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|---------------|--------------|----------------------|------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00082 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00066 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,1,2-Trichloroethane | U | | 0.00070 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0011 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,1-Dichloroethane | U | | 0.00064 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,1-Dichloroethene | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2,4-Trichlorobenzene | U | | 0.0011 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2-Dibromo-3-chloropropane | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2-Dibromoethane | U | | 0.00037 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2-Dichlorobenzene | U | | 0.00073 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2-Dichloroethane | U | | 0.00058 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,2-Dichloropropane | U | | 0.00046 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,3-Dichlorobenzene | U | | 0.00063 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 1,4-Dichlorobenzene | U | | 0.00066 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 2-Butanone | U | | 0.0053 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 2-Hexanone | U | | 0.0019 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| 4-Methyl-2-pentanone | U | | 0.0019 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Acetone | 0.0082 | J | 0.0048 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Benzene | U | | 0.00054 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Bromodichloromethane | U | | 0.00062 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Bromoform | U | | 0.00052 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Bromomethane | U | | 0.0026 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Carbon disulfide | U | | 0.00061 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Carbon tetrachloride | U | | 0.0010 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Chlorobenzene | U | | 0.00065 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Chloroethane | U | | 0.0020 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Chloroform | U | | 0.00085 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Chloromethane | U | | 0.0010 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| cis-1,2-Dichloroethene | U | | 0.00056 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| cis-1,3-Dichloropropene | U | | 0.00062 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Cyclohexane | U | | 0.0018 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Dibromochloromethane | U | | 0.00053 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Dichlorodifluoromethane | U | | 0.0026 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Ethylbenzene | U | | 0.00090 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-06-(9-11) Soil
Collection Date: 11/12/2020 08:30 AM

Work Order: 20111403
Lab ID: 20111403-06
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|-------------------------|
| Isopropylbenzene | U | | 0.00088 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Methyl acetate | U | | 0.0012 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Methyl tert-butyl ether | U | | 0.00063 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Methylcyclohexane | U | | 0.0015 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Methylene chloride | U | | 0.0064 | 0.010 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Styrene | U | | 0.00078 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Tetrachloroethene | U | | 0.00092 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Toluene | U | | 0.00089 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| trans-1,2-Dichloroethene | U | | 0.00052 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| trans-1,3-Dichloropropene | U | | 0.00050 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Trichloroethene | U | | 0.00075 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Trichlorofluoromethane | U | | 0.00074 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Vinyl chloride | U | | 0.00073 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| Xylenes, Total | U | | 0.0023 | 0.0052 | mg/Kg-dry-dry | 0.82 | 11/24/2020 15:33 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 106 | | | 83-132 | %REC | 0.82 | 11/24/2020 15:33 |
| <i>Surr: 4-Bromofluorobenzene</i> | 103 | | | 83-111 | %REC | 0.82 | 11/24/2020 15:33 |
| <i>Surr: Dibromofluoromethane</i> | 102 | | | 77-125 | %REC | 0.82 | 11/24/2020 15:33 |
| <i>Surr: Toluene-d8</i> | 97.8 | | | 86-108 | %REC | 0.82 | 11/24/2020 15:33 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 21 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-07-(0-1) Soil
Collection Date: 11/12/2020 09:25 AM

Work Order: 20111403
Lab ID: 20111403-07
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|------|----------------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | Method: SW7471B | | Prep: SW7471 / 11/18/20 | | Analyst: MAC |
| Mercury | | U | 0.014 | 0.021 | mg/Kg-dry | 1 | 11/18/2020 19:06 |
| METALS BY ICP-MS | | | Method: SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 5.0 | | 0.058 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| Barium | 190 | | 4.5 | 4.8 | mg/Kg-dry | 10 | 11/18/2020 15:11 |
| Cadmium | 0.23 | | 0.029 | 0.19 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| Chromium | 13 | | 0.21 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| Lead | 14 | | 0.23 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| Selenium | 1.8 | | 0.45 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| Silver | | U | 0.064 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:23 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3546 / 11/18/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0063 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4,5-Trichlorophenol | | U | 0.023 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4,6-Trichlorophenol | | U | 0.010 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4-Dichlorophenol | | U | 0.021 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4-Dimethylphenol | | U | 0.020 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4-Dinitrophenol | | U | 0.28 | 0.77 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,4-Dinitrotoluene | | U | 0.025 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2,6-Dinitrotoluene | | U | 0.025 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Chloronaphthalene | | U | 0.0054 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Chlorophenol | | U | 0.012 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Methylnaphthalene | | U | 0.0039 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Methylphenol | | U | 0.010 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Nitroaniline | | U | 0.021 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 2-Nitrophenol | | U | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 3&4-Methylphenol | | U | 0.021 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 3,3'-Dichlorobenzidine | | U | 0.018 | 0.19 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 3-Nitroaniline | | U | 0.022 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4,6-Dinitro-2-methylphenol | | U | 0.032 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Bromophenyl phenyl ether | | U | 0.021 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Chloro-3-methylphenol | | U | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Chloroaniline | | U | 0.020 | 0.078 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Chlorophenyl phenyl ether | | U | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Nitroaniline | | U | 0.060 | 0.19 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| 4-Nitrophenol | | U | 0.091 | 0.19 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Acenaphthene | | U | 0.0056 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Acenaphthylene | | U | 0.0067 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Acetophenone | | U | 0.0061 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-07-(0-1) Soil
 Collection Date: 11/12/2020 09:25 AM

Work Order: 20111403
 Lab ID: 20111403-07
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|---------------|------|---------------|---------------|----------------------|-----------------|------------------|
| Anthracene | 0.0077 | | 0.0054 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Atrazine | U | | 0.023 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzaldehyde | U | | 0.059 | 0.078 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzo(a)anthracene | 0.010 | | 0.0067 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzo(a)pyrene | U | | 0.0047 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzo(b)fluoranthene | 0.015 | | 0.0058 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzo(g,h,i)perylene | U | | 0.0059 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Benzo(k)fluoranthene | 0.0070 | J | 0.0059 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Bis(2-chloroethoxy)methane | U | | 0.024 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Bis(2-chloroethyl)ether | U | | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Bis(2-chloroisopropyl)ether | U | | 0.0091 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Bis(2-ethylhexyl)phthalate | 0.045 | | 0.032 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Butyl benzyl phthalate | U | | 0.048 | 0.078 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Caprolactam | U | | 0.059 | 0.078 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Carbazole | U | | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Chrysene | 0.0077 | | 0.0062 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Dibenzo(a,h)anthracene | U | | 0.0042 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Dibenzofuran | U | | 0.0057 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Diethyl phthalate | U | | 0.013 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Dimethyl phthalate | U | | 0.0075 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Di-n-butyl phthalate | U | | 0.024 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Di-n-octyl phthalate | U | | 0.033 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Fluoranthene | 0.028 | | 0.0037 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Fluorene | 0.0093 | | 0.0056 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Hexachlorobenzene | U | | 0.011 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Hexachlorobutadiene | U | | 0.0091 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Hexachlorocyclopentadiene | U | | 0.037 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Hexachloroethane | U | | 0.016 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0054 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Isophorone | U | | 0.0075 | 0.19 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Naphthalene | U | | 0.0049 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Nitrobenzene | U | | 0.013 | 0.19 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| N-Nitrosodi-n-propylamine | U | | 0.0064 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| N-Nitrosodiphenylamine | U | | 0.022 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Pentachlorophenol | U | | 0.031 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Phenanthrene | 0.026 | | 0.0036 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Phenol | U | | 0.019 | 0.038 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Pyrene | 0.015 | | 0.0073 | 0.0077 | mg/Kg-dry-dry | 1 | 11/20/2020 22:25 |
| Surr: 2,4,6-Tribromophenol | 65.4 | | | 38-92 | %REC | 1 | 11/20/2020 22:25 |
| Surr: 2-Fluorobiphenyl | 73.9 | | | 44-107 | %REC | 1 | 11/20/2020 22:25 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-07-(0-1) Soil
Collection Date: 11/12/2020 09:25 AM

Work Order: 20111403
Lab ID: 20111403-07
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 70.5 | | | 37-109 | %REC | 1 | 11/20/2020 22:25 |
| Surr: 4-Terphenyl-d14 | 81.9 | | | 52-123 | %REC | 1 | 11/20/2020 22:25 |
| Surr: Nitrobenzene-d5 | 75.3 | | | 41-94 | %REC | 1 | 11/20/2020 22:25 |
| Surr: Phenol-d6 | 79.8 | | | 28-111 | %REC | 1 | 11/20/2020 22:25 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|----------------|---------------|----------------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00078 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00063 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,1,2-Trichloroethane | U | | 0.00066 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0011 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,1-Dichloroethane | U | | 0.00061 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,1-Dichloroethene | U | | 0.00097 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2,4-Trichlorobenzene | U | | 0.0011 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00098 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2-Dibromoethane | U | | 0.00036 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2-Dichlorobenzene | U | | 0.00069 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2-Dichloroethane | U | | 0.00056 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,2-Dichloropropane | U | | 0.00044 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,3-Dichlorobenzene | U | | 0.00060 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 1,4-Dichlorobenzene | U | | 0.00063 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 2-Butanone | U | | 0.0051 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 2-Hexanone | U | | 0.0018 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| 4-Methyl-2-pentanone | U | | 0.0018 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Acetone | 0.053 | | 0.0046 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Benzene | U | | 0.00052 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Bromodichloromethane | U | | 0.00059 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Bromoform | U | | 0.00050 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Bromomethane | U | | 0.0025 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Carbon disulfide | 0.0039 | J | 0.00058 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Carbon tetrachloride | U | | 0.00099 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Chlorobenzene | U | | 0.00062 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Chloroethane | U | | 0.0019 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Chloroform | U | | 0.00081 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Chloromethane | U | | 0.00099 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| cis-1,2-Dichloroethene | U | | 0.00054 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| cis-1,3-Dichloropropene | U | | 0.00059 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Cyclohexane | U | | 0.0017 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Dibromochloromethane | U | | 0.00051 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Dichlorodifluoromethane | U | | 0.0025 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Ethylbenzene | U | | 0.00086 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-07-(0-1) Soil
Collection Date: 11/12/2020 09:25 AM

Work Order: 20111403
Lab ID: 20111403-07
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.00084 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Methyl acetate | U | | 0.0012 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Methyl tert-butyl ether | U | | 0.00060 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Methylcyclohexane | U | | 0.0015 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Methylene chloride | U | | 0.0061 | 0.0099 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Styrene | U | | 0.00074 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Tetrachloroethene | U | | 0.00088 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Toluene | U | | 0.00085 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| trans-1,2-Dichloroethene | U | | 0.00050 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| trans-1,3-Dichloropropene | U | | 0.00048 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Trichloroethene | U | | 0.00071 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Trichlorofluoromethane | U | | 0.00070 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Vinyl chloride | U | | 0.00069 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| Xylenes, Total | U | | 0.0022 | 0.0050 | mg/Kg-dry-dry | 0.813 | 11/24/2020 13:11 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 110 | | | 83-132 | %REC | 0.813 | 11/24/2020 13:11 |
| <i>Surr: 4-Bromofluorobenzene</i> | 103 | | | 83-111 | %REC | 0.813 | 11/24/2020 13:11 |
| <i>Surr: Dibromofluoromethane</i> | 105 | | | 77-125 | %REC | 0.813 | 11/24/2020 13:11 |
| <i>Surr: Toluene-d8</i> | 101 | | | 86-108 | %REC | 0.813 | 11/24/2020 13:11 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 18 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-08-(3-5) Soil
 Collection Date: 11/11/2020 11:17 AM

Work Order: 20111403
 Lab ID: 20111403-08
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|--------------------|--------------|---------------|--------------------------|---------------------|
| MERCURY BY CVAA | | | | | | | |
| | | | Method:SW7471B | | | Prep: SW7471 / 11/18/20 | Analyst: MAC |
| Mercury | 0.030 | | 0.014 | 0.020 | mg/Kg-dry | 1 | 11/18/2020 19:08 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method:SW6020B | | | Prep: SW3050B / 11/17/20 | Analyst: STP |
| Arsenic | 6.3 | | 0.058 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| Barium | 190 | | 4.5 | 4.8 | mg/Kg-dry | 10 | 11/18/2020 15:13 |
| Cadmium | 0.085 | J | 0.029 | 0.19 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| Chromium | 13 | | 0.21 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| Lead | 12 | | 0.23 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| Selenium | 1.9 | | 0.45 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| Silver | 0.079 | J | 0.064 | 0.48 | mg/Kg-dry | 1 | 11/17/2020 21:25 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | | Prep: SW3546 / 11/18/20 | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0066 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4,5-Trichlorophenol | | U | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4-Dinitrophenol | | U | 0.30 | 0.81 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,4-Dinitrotoluene | | U | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Chloronaphthalene | | U | 0.0057 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Chlorophenol | | U | 0.013 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Methylnaphthalene | | U | 0.0041 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Methylphenol | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Nitroaniline | | U | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 2-Nitrophenol | | U | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 3&4-Methylphenol | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 3,3'-Dichlorobenzidine | | U | 0.019 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 3-Nitroaniline | | U | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4,6-Dinitro-2-methylphenol | | U | 0.034 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Bromophenyl phenyl ether | | U | 0.022 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Chloro-3-methylphenol | | U | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Chloroaniline | | U | 0.021 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Chlorophenyl phenyl ether | | U | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Nitroaniline | | U | 0.063 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| 4-Nitrophenol | | U | 0.095 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Acenaphthene | | U | 0.0059 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Acenaphthylene | | U | 0.0070 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Acetophenone | | U | 0.0063 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-08-(3-5) Soil
Collection Date: 11/11/2020 11:17 AM

Work Order: 20111403
Lab ID: 20111403-08
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|--------|--------------|---------------|-----------------|------------------|
| Anthracene | U | | 0.0057 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Atrazine | U | | 0.024 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzaldehyde | U | | 0.062 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzo(a)anthracene | U | | 0.0070 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzo(a)pyrene | U | | 0.0050 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzo(b)fluoranthene | U | | 0.0060 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzo(g,h,i)perylene | U | | 0.0062 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Benzo(k)fluoranthene | U | | 0.0061 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Bis(2-chloroethoxy)methane | U | | 0.026 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Bis(2-chloroethyl)ether | U | | 0.011 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Bis(2-chloroisopropyl)ether | U | | 0.0095 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Bis(2-ethylhexyl)phthalate | U | | 0.034 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Butyl benzyl phthalate | U | | 0.051 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Caprolactam | U | | 0.062 | 0.081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Carbazole | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Chrysene | U | | 0.0066 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Dibenzo(a,h)anthracene | U | | 0.0044 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Dibenzofuran | U | | 0.0060 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Diethyl phthalate | U | | 0.014 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Dimethyl phthalate | U | | 0.0079 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Di-n-butyl phthalate | U | | 0.025 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Di-n-octyl phthalate | U | | 0.035 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Fluoranthene | U | | 0.0039 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Fluorene | U | | 0.0059 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Hexachlorobenzene | U | | 0.012 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Hexachlorobutadiene | U | | 0.0095 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Hexachlorocyclopentadiene | U | | 0.038 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Hexachloroethane | U | | 0.017 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0056 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Isophorone | U | | 0.0079 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Naphthalene | U | | 0.0052 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Nitrobenzene | U | | 0.014 | 0.20 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| N-Nitrosodi-n-propylamine | U | | 0.0067 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| N-Nitrosodiphenylamine | U | | 0.023 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Pentachlorophenol | U | | 0.032 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Phenanthrene | U | | 0.0038 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Phenol | U | | 0.020 | 0.040 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Pyrene | U | | 0.0077 | 0.0081 | mg/Kg-dry-dry | 1 | 11/20/2020 22:49 |
| Surr: 2,4,6-Tribromophenol | 49.2 | | | 38-92 | %REC | 1 | 11/20/2020 22:49 |
| Surr: 2-Fluorobiphenyl | 56.8 | | | 44-107 | %REC | 1 | 11/20/2020 22:49 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-08-(3-5) Soil
Collection Date: 11/11/2020 11:17 AM

Work Order: 20111403
Lab ID: 20111403-08
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 68.2 | | | 37-109 | %REC | 1 | 11/20/2020 22:49 |
| Surr: 4-Terphenyl-d14 | 57.8 | | | 52-123 | %REC | 1 | 11/20/2020 22:49 |
| Surr: Nitrobenzene-d5 | 66.0 | | | 41-94 | %REC | 1 | 11/20/2020 22:49 |
| Surr: Phenol-d6 | 74.4 | | | 28-111 | %REC | 1 | 11/20/2020 22:49 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---|--|---------|--------|---------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00067 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00054 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,1,2-Trichloroethane | U | | 0.00057 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00093 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,1-Dichloroethane | U | | 0.00052 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,1-Dichloroethene | U | | 0.00083 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2,4-Trichlorobenzene | U | | 0.00093 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00084 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2-Dibromoethane | U | | 0.00030 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2-Dichlorobenzene | U | | 0.00059 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2-Dichloroethane | U | | 0.00047 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,2-Dichloropropane | U | | 0.00037 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,3-Dichlorobenzene | U | | 0.00052 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 1,4-Dichlorobenzene | U | | 0.00054 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 2-Butanone | U | | 0.0043 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 2-Hexanone | U | | 0.0015 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| 4-Methyl-2-pentanone | U | | 0.0015 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Acetone | U | | 0.0039 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Benzene | U | | 0.00044 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Bromodichloromethane | U | | 0.00051 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Bromoform | U | | 0.00042 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Bromomethane | U | | 0.0021 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Carbon disulfide | U | | 0.00050 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Carbon tetrachloride | U | | 0.00085 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Chlorobenzene | U | | 0.00053 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Chloroethane | U | | 0.0016 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Chloroform | U | | 0.00069 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Chloromethane | U | | 0.00085 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| cis-1,2-Dichloroethene | U | | 0.00046 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| cis-1,3-Dichloropropene | U | | 0.00051 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Cyclohexane | U | | 0.0014 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Dibromochloromethane | U | | 0.00043 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Dichlorodifluoromethane | U | | 0.0021 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Ethylbenzene | U | | 0.00074 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-08-(3-5) Soil
Collection Date: 11/11/2020 11:17 AM

Work Order: 20111403
Lab ID: 20111403-08
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.00072 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Methyl acetate | U | | 0.0010 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Methyl tert-butyl ether | U | | 0.00052 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Methylcyclohexane | U | | 0.0013 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Methylene chloride | U | | 0.0052 | 0.0085 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Styrene | U | | 0.00063 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Tetrachloroethene | U | | 0.00075 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Toluene | U | | 0.00073 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| trans-1,2-Dichloroethene | U | | 0.00042 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| trans-1,3-Dichloropropene | U | | 0.00041 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Trichloroethene | U | | 0.00061 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Trichlorofluoromethane | U | | 0.00060 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Vinyl chloride | U | | 0.00059 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| Xylenes, Total | U | | 0.0019 | 0.0042 | mg/Kg-dry-dry | 0.693 | 11/24/2020 15:00 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 102 | | | 83-132 | %REC | 0.693 | 11/24/2020 15:00 |
| <i>Surr: 4-Bromofluorobenzene</i> | 108 | | | 83-111 | %REC | 0.693 | 11/24/2020 15:00 |
| <i>Surr: Dibromofluoromethane</i> | 102 | | | 77-125 | %REC | 0.693 | 11/24/2020 15:00 |
| <i>Surr: Toluene-d8</i> | 101 | | | 86-108 | %REC | 0.693 | 11/24/2020 15:00 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 18 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: 2020-BH-09-(13-15) Soil
 Collection Date: 11/11/2020 12:10 PM

Work Order: 20111403
 Lab ID: 20111403-09
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|--------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA | | | | | | | |
| | | | Method:SW7471B | | Prep: SW7471 / 11/18/20 | | Analyst: MAC |
| Mercury | 0.039 | | 0.016 | 0.023 | mg/Kg-dry | 1 | 11/18/2020 19:10 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method:SW6020B | | Prep: SW3050B / 11/17/20 | | Analyst: STP |
| Arsenic | 2.3 | | 0.050 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Barium | 140 | | 0.38 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Cadmium | 0.10 | J | 0.025 | 0.17 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Chromium | 11 | | 0.18 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Lead | 11 | | 0.20 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Selenium | 1.8 | | 0.38 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| Silver | 0.083 | J | 0.055 | 0.42 | mg/Kg-dry | 1 | 11/17/2020 21:27 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | Prep: SW3546 / 11/20/20 | | Analyst: EEW |
| 1,1'-Biphenyl | | U | 0.0068 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4,5-Trichlorophenol | | U | 0.025 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4,6-Trichlorophenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4-Dichlorophenol | | U | 0.022 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4-Dimethylphenol | | U | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4-Dinitrophenol | | U | 0.30 | 0.83 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,4-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2,6-Dinitrotoluene | | U | 0.027 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Chloronaphthalene | | U | 0.0058 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Chlorophenol | | U | 0.013 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Methylnaphthalene | | U | 0.0042 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Methylphenol | | U | 0.011 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Nitroaniline | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 2-Nitrophenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 3&4-Methylphenol | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 3,3'-Dichlorobenzidine | | U | 0.019 | 0.21 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 3-Nitroaniline | | U | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4,6-Dinitro-2-methylphenol | | U | 0.035 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Bromophenyl phenyl ether | | U | 0.023 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Chloro-3-methylphenol | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Chloroaniline | | U | 0.021 | 0.084 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Chlorophenyl phenyl ether | | U | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Nitroaniline | | U | 0.065 | 0.21 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| 4-Nitrophenol | | U | 0.098 | 0.21 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Acenaphthene | | U | 0.0060 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Acenaphthylene | | U | 0.0072 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Acetophenone | | U | 0.0065 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-09-(13-15) Soil
Collection Date: 11/11/2020 12:10 PM

Work Order: 20111403
Lab ID: 20111403-09
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|--------|--------------|---------------|-----------------|------------------|
| Anthracene | U | | 0.0059 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Atrazine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzaldehyde | U | | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzo(a)anthracene | U | | 0.0072 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzo(a)pyrene | U | | 0.0051 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzo(b)fluoranthene | U | | 0.0062 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzo(g,h,i)perylene | U | | 0.0064 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Benzo(k)fluoranthene | U | | 0.0063 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Bis(2-chloroethoxy)methane | U | | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Bis(2-chloroethyl)ether | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Bis(2-chloroisopropyl)ether | U | | 0.0098 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Bis(2-ethylhexyl)phthalate | U | | 0.034 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Butyl benzyl phthalate | U | | 0.052 | 0.084 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Caprolactam | U | | 0.064 | 0.084 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Carbazole | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Chrysene | U | | 0.0067 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Dibenzo(a,h)anthracene | U | | 0.0045 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Dibenzofuran | U | | 0.0061 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Diethyl phthalate | U | | 0.014 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Dimethyl phthalate | U | | 0.0081 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Di-n-butyl phthalate | U | | 0.026 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Di-n-octyl phthalate | U | | 0.036 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Fluoranthene | U | | 0.0040 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Fluorene | U | | 0.0060 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Hexachlorobenzene | U | | 0.012 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Hexachlorobutadiene | U | | 0.0098 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Hexachlorocyclopentadiene | U | | 0.039 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Hexachloroethane | U | | 0.017 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0058 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Isophorone | U | | 0.0081 | 0.21 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Naphthalene | U | | 0.0053 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Nitrobenzene | U | | 0.014 | 0.21 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| N-Nitrosodi-n-propylamine | U | | 0.0069 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| N-Nitrosodiphenylamine | U | | 0.024 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Pentachlorophenol | U | | 0.033 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Phenanthrene | U | | 0.0039 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Phenol | U | | 0.021 | 0.041 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Pyrene | U | | 0.0079 | 0.0083 | mg/Kg-dry-dry | 1 | 11/24/2020 03:40 |
| Surr: 2,4,6-Tribromophenol | 41.9 | | | 38-92 | %REC | 1 | 11/24/2020 03:40 |
| Surr: 2-Fluorobiphenyl | 56.8 | | | 44-107 | %REC | 1 | 11/24/2020 03:40 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Sample ID: 2020-BH-09-(13-15) Soil
Collection Date: 11/11/2020 12:10 PM

Work Order: 20111403
Lab ID: 20111403-09
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 63.1 | | | 37-109 | %REC | 1 | 11/24/2020 03:40 |
| Surr: 4-Terphenyl-d14 | 43.2 | S | | 52-123 | %REC | 1 | 11/24/2020 03:40 |
| Surr: Nitrobenzene-d5 | 58.1 | | | 41-94 | %REC | 1 | 11/24/2020 03:40 |
| Surr: Phenol-d6 | 65.1 | | | 28-111 | %REC | 1 | 11/24/2020 03:40 |

VOLATILE ORGANIC COMPOUNDS - LOW LEVEL

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---|--|---------|--------|---------------|-------|------------------|
| 1,1,1-Trichloroethane | U | | 0.00074 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00060 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,1,2-Trichloroethane | U | | 0.00063 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0010 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,1-Dichloroethane | U | | 0.00058 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,1-Dichloroethene | U | | 0.00092 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2,4-Trichlorobenzene | U | | 0.0010 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00092 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2-Dibromoethane | U | | 0.00034 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2-Dichlorobenzene | U | | 0.00065 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2-Dichloroethane | U | | 0.00052 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,2-Dichloropropane | U | | 0.00041 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,3-Dichlorobenzene | U | | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 1,4-Dichlorobenzene | U | | 0.00060 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 2-Butanone | U | | 0.0048 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 2-Hexanone | U | | 0.0017 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| 4-Methyl-2-pentanone | U | | 0.0017 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Acetone | U | | 0.0043 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Benzene | U | | 0.00049 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Bromodichloromethane | U | | 0.00056 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Bromoform | U | | 0.00047 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Bromomethane | U | | 0.0023 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Carbon disulfide | U | | 0.00055 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Carbon tetrachloride | U | | 0.00093 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Chlorobenzene | U | | 0.00059 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Chloroethane | U | | 0.0018 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Chloroform | U | | 0.00077 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Chloromethane | U | | 0.00093 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| cis-1,2-Dichloroethene | U | | 0.00050 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| cis-1,3-Dichloropropene | U | | 0.00056 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Cyclohexane | U | | 0.0016 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Dibromochloromethane | U | | 0.00048 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Dichlorodifluoromethane | U | | 0.0023 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Ethylbenzene | U | | 0.00081 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.

Project: Golder (Phase II Eaton Shenandoah 20394143)

Sample ID: 2020-BH-09-(13-15) Soil

Collection Date: 11/11/2020 12:10 PM

Work Order: 20111403

Lab ID: 20111403-09

Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|-----------|------|-------------|----------------|--------------------|-----------------|---------------------|
| Isopropylbenzene | U | | 0.00079 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Methyl acetate | U | | 0.0011 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Methyl tert-butyl ether | U | | 0.00057 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Methylcyclohexane | U | | 0.0014 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Methylene chloride | U | | 0.0058 | 0.0093 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Styrene | U | | 0.00070 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Tetrachloroethene | U | | 0.00083 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Toluene | U | | 0.00080 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| trans-1,2-Dichloroethene | U | | 0.00047 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| trans-1,3-Dichloropropene | U | | 0.00045 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Trichloroethene | U | | 0.00067 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Trichlorofluoromethane | U | | 0.00066 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Vinyl chloride | U | | 0.00065 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| Xylenes, Total | U | | 0.0021 | 0.0047 | mg/Kg-dry-dry | 0.731 | 11/24/2020 15:16 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 109 | | | 83-132 | %REC | 0.731 | 11/24/2020 15:16 |
| <i>Surr: 4-Bromofluorobenzene</i> | 104 | | | 83-111 | %REC | 0.731 | 11/24/2020 15:16 |
| <i>Surr: Dibromofluoromethane</i> | 106 | | | 77-125 | %REC | 0.731 | 11/24/2020 15:16 |
| <i>Surr: Toluene-d8</i> | 99.7 | | | 86-108 | %REC | 0.731 | 11/24/2020 15:16 |
| MOISTURE | | | | Method:SW3550C | | | Analyst: KTP |
| Moisture | 22 | | 0.10 | 0.10 | % of sample | 1 | 11/18/2020 14:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah 20394143)
 Sample ID: Trip Blank
 Collection Date: 11/11/2020

Work Order: 20111403
 Lab ID: 20111403-10
 Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|----------------|--------------|-----------|-----------------|------------------|
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method:SW8260C | | | | Analyst: MF |
| 1,1,1-Trichloroethane | U | | 0.00079 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00064 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,1,2-Trichloroethane | U | | 0.00067 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0011 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,1-Dichloroethane | U | | 0.00062 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,1-Dichloroethene | U | | 0.00098 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2,4-Trichlorobenzene | U | | 0.0011 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00099 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2-Dibromoethane | U | | 0.00036 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2-Dichlorobenzene | U | | 0.00070 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2-Dichloroethane | U | | 0.00056 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,2-Dichloropropane | U | | 0.00044 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,3-Dichlorobenzene | U | | 0.00061 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 1,4-Dichlorobenzene | U | | 0.00064 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 2-Butanone | U | | 0.0051 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 2-Hexanone | U | | 0.0018 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| 4-Methyl-2-pentanone | U | | 0.0018 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Acetone | U | | 0.0046 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Benzene | U | | 0.00052 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Bromodichloromethane | U | | 0.00060 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Bromoform | U | | 0.00050 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Bromomethane | U | | 0.0025 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Carbon disulfide | U | | 0.00059 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Carbon tetrachloride | U | | 0.0010 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Chlorobenzene | U | | 0.00063 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Chloroethane | U | | 0.0019 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Chloroform | U | | 0.00082 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Chloromethane | U | | 0.0010 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| cis-1,2-Dichloroethene | U | | 0.00054 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| cis-1,3-Dichloropropene | U | | 0.00060 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Cyclohexane | U | | 0.0017 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Dibromochloromethane | U | | 0.00051 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Dichlorodifluoromethane | U | | 0.0025 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Ethylbenzene | U | | 0.00087 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Isopropylbenzene | U | | 0.00085 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Methyl acetate | U | | 0.0012 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Methyl tert-butyl ether | U | | 0.00061 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Methylcyclohexane | U | | 0.0015 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 01-Dec-20

Client: Golder Associates Inc.

Project: Golder (Phase II Eaton Shenandoah 20394143)

Sample ID: Trip Blank

Collection Date: 11/11/2020

Work Order: 20111403

Lab ID: 20111403-10

Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-----------|-----------------|------------------|
| Methylene chloride | U | | 0.0062 | 0.010 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Styrene | U | | 0.00075 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Tetrachloroethene | U | | 0.00089 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Toluene | U | | 0.00086 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| trans-1,2-Dichloroethene | U | | 0.00050 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| trans-1,3-Dichloropropene | U | | 0.00048 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Trichloroethene | U | | 0.00072 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Trichlorofluoromethane | U | | 0.00071 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Vinyl chloride | U | | 0.00070 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Xylenes, Total | U | | 0.0022 | 0.0050 | mg/Kg-dry | 1 | 11/24/2020 13:28 |
| Surr: 1,2-Dichloroethane-d4 | 104 | | | 83-132 | %REC | 1 | 11/24/2020 13:28 |
| Surr: 4-Bromofluorobenzene | 100 | | | 83-111 | %REC | 1 | 11/24/2020 13:28 |
| Surr: Dibromofluoromethane | 104 | | | 77-125 | %REC | 1 | 11/24/2020 13:28 |
| Surr: Toluene-d8 | 97.2 | | | 86-108 | %REC | 1 | 11/24/2020 13:28 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

Batch 167860 The MS/MSD data for metals is not related to this project's sample. No data requires qualification.

Batch 167928 Sample 20111403-01B SVO_8270_S One or more surrogate recoveries were below the lower control limits. The sample results may be biased low, 4-Terphenyl-d14 Client Sample ID: 2020-BH-01-(5-7) Soil

Batch 167928 Sample 20111403-03B SVO_8270_S One or more surrogate recoveries were below the lower control limits. The sample results may be biased low, 4-Terphenyl-d14 Client Sample ID: 2020-BH-03-(1-3) Soil

Batch 167928 Sample 20111403-05B SVO_8270_S Prep comment: Reduced mass due to sample wetness. Client Sample ID: 2020-BH-05-(1-3) Soil

Batch 167928 Sample SLCSS1-167928 SVO_8270_S The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: 2,4-Dimethylphenol

Batch 167928 The MS/MSD data for semivolatiles is not related to this project's sample. No data requires qualification.

Batch 167952 Sample 20111403-02A VOC_8260_S The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-02-(0-1) Soil

Batch 167952 Sample 20111403-02A VOC_8260_S The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-02-(0-1) Soil

Batch 167952 Sample 20111403-05A VOC_8260_S The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-05-(1-3) Soil

Batch 167952 Sample 20111403-05A VOC_8260_S The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

05-(1-3) Soil

Batch 167952 Sample 20111403-09A MS VOC_8260_S The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: tetrachloroethene Client Sample ID: 2202-BH-09-(13-15) Soil

Batch 167952 Sample 20111403-09A MS VOC_8260_S The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: chloroethane, ethylacetate, t-butanol, vinyl chloride Client Sample ID: 2202-BH-09-(13-15) Soil

Batch 167952 Sample 20111403-09A MS/MSD VOC_8260_S The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: acetone Client Sample ID: 2202-BH-09-(13-15) Soil

Batch 167952 Sample 20111403-09A MSD VOC_8260_S The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. tetrachloroethene, ethylbenzene, 4-chlorotoluene, m,p-xylene, total xylene Client Sample ID: 2202-BH-09-(13-15) Soil

Batch 167952 Sample 20111403-09A MSD VOC_8260_S The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: chloroethane, ethylacetate, t-butanol, vinyl chloride Client Sample ID:

Batch 167952 Sample 20111403-09A MSD VOC_8260_S The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: methylene chloride Client Sample ID: 2202-BH-09-(13-15) Soil

Batch 167952x Sample 20111403-01A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-01-(5-7) Soil

Batch 167952x Sample 20111403-01A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-01-(5-7) Soil

Batch 167952x Sample 20111403-03A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

Sample ID: 2020-BH-03-(1-3) Soil

Batch 167952x Sample 20111403-03A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-03-(1-3) Soil

Batch 167952x Sample 20111403-04A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-04-(9-11) Soil

Batch 167952x Sample 20111403-04A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-04-(9-11) Soil

Batch 167952x Sample 20111403-06A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-06-(9-11) Soil

Batch 167952x Sample 20111403-06A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-06-(9-11) Soil

Batch 167952x Sample 20111403-07A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-07-(0-1) Soil

Batch 167952x Sample 20111403-07A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-07-(0-1) Soil

Batch 167952x Sample 20111403-08A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-08-(3-5) Soil

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

Batch 167952x Sample 20111403-08A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-08-(3-5) Soil

Batch 167952x Sample 20111403-09A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: 2020-BH-09-(13-15) Soil

Batch 167952x Sample 20111403-09A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: 2020-BH-09-(13-15) Soil

Batch 167952x Sample 20111403-10A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: dichlorodifluoromethane, chloromethane, methyl iodide Client Sample ID: Trip Blank

Batch 167952x Sample 20111403-10A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, vinyl acetate Client Sample ID: Trip Blank

Batch 168076 Sample 20111403-09B SVO_8270_S One or more surrogate recoveries were below the lower control limits. The sample results may be biased low, 4-Terphenyl-d14 Client Sample ID: 2020-BH-09-(13-15) Soil

Batch 168076 Sample 20111403-09B SVO_8270_S The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: 4-Nitroaniline Client Sample ID: 2020-BH-09-(13-15) Soil

Batch 168076 The MS/MSD data for semivolatiles is not related to this project's sample. No data requires qualification.

Batch 168427 The MS/MSD data for mercury is not related to this project's sample. No data requires qualification.

Batch R304384 Sample 20111403-01A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

be considered estimate: 2-hexanone Client Sample ID: 2020-BH-01-(5-7) Soil

Batch R304384 Sample 20111403-01A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-01-(5-7) Soil

Batch R304384 Sample 20111403-03A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-03-(1-3) Soil

Batch R304384 Sample 20111403-03A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-03-(1-3) Soil

Batch R304384 Sample 20111403-04A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-04-(9-11) Soil

Batch R304384 Sample 20111403-04A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-04-(9-11) Soil

Batch R304384 Sample 20111403-05A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-05-(1-3) Soil

Batch R304384 Sample 20111403-05A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-05-(1-3) Soil

Batch R304384 Sample 20111403-06A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-06-(9-11) Soil

Batch R304384 Sample 20111403-06A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-06-(9-11) Soil

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

Batch R304384 Sample 20111403-07A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-07-(0-1) Soil

Batch R304384 Sample 20111403-07A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-07-(0-1) Soil

Batch R304384 Sample 20111403-07A MS VOC_8260_SLL The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 2-butanone Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MS VOC_8260_SLL The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary: 2-hexanone Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MS VOC_8260_SLL The MS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: naphthalene Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MS VOC_8260_SLL The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: see QC report

Batch R304384 Sample 20111403-07A MSD VOC_8260_SLL The MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: 2-butanone Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MSD VOC_8260_SLL The MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary. 2-hexanone Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MSD VOC_8260_SLL The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: naphthalene Client Sample ID: 2020-BH-07(0-1)Soil

Batch R304384 Sample 20111403-07A MSD VOC_8260_SLL The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: methyl iodide, trichlorofluoromethane, bromomethane, 1,1-dichloroethene, dichlorodifluoromethane Client Sample ID: 2020-BH-

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
Work Order: 20111403

Case Narrative

07(0-1)Soil

Batch R304384 Sample 20111403-08A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-08-(3-5) Soil

Batch R304384 Sample 20111403-08A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-08-(3-5) Soil

Batch R304384 Sample 20111403-09A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: 2020-BH-09-(13-15) Soil

Batch R304384 Sample 20111403-09A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: 2020-BH-09-(13-15) Soil

Batch R304384 Sample 20111403-10A VOC_8260_SLL The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 2-hexanone Client Sample ID: Trip Blank

Batch R304384 Sample 20111403-10A VOC_8260_SLL The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloromethane Client Sample ID: Trip Blank

Batch R304384 Sample VLCSS1-201124 VOC_8260_SLL The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: methyl iodide

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167847** Instrument ID **HG4** Method: **SW7471B**

| MBLK | | Sample ID: MBLK-167847-167847 | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 03:43 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201117A | | | | SeqNo: 6906963 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | U | 0.020 | | | | | | | | | |

| LCS | | Sample ID: LCS-167847-167847 | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 03:45 PM | | | |
|------------|--------|-------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201117A | | | | SeqNo: 6906964 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.18 | 0.020 | 0.1665 | 0 | 108 | 80-120 | 0 | | | | |

| MS | | Sample ID: 20111276-08BMS | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 03:56 PM | | | |
|------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201117A | | | | SeqNo: 6906968 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.1678 | 0.017 | 0.1386 | 0.02456 | 103 | 75-125 | 0 | | | | |

| MSD | | Sample ID: 20111276-08BMSD | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 04:03 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201117A | | | | SeqNo: 6906972 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.1635 | 0.016 | 0.1345 | 0.02456 | 103 | 75-125 | 0.1678 | 2.59 | 35 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-02B | 20111403-03B | 20111403-04B |
|--------------|--------------|--------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167914** Instrument ID **HG4** Method: **SW7471B**

| | | | | | | | | | | |
|-------------|--------------------------------------|-----|---------|-----------------------|---------------------|------------------------------|---|--------------|-----------|------|
| MBLK | Sample ID: MBLK-167914-167914 | | | | Units: mg/Kg | | Analysis Date: 11/18/2020 06:49 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912055 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury U 0.020

| | | | | | | | | | | |
|------------|-------------------------------------|-----|---------|-----------------------|---------------------|------------------------------|---|--------------|-----------|------|
| LCS | Sample ID: LCS-167914-167914 | | | | Units: mg/Kg | | Analysis Date: 11/18/2020 06:50 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912056 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.1608 0.020 0.1665 0 96.6 80-120 0

| | | | | | | | | | | |
|------------|----------------------------------|-----|---------|-----------------------|---------------------|------------------------------|---|--------------|-----------|------|
| MS | Sample ID: 20111414-12AMS | | | | Units: mg/Kg | | Analysis Date: 11/18/2020 07:44 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912086 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.1575 0.018 0.1521 0.008462 98 75-125 0

| | | | | | | | | | | |
|------------|-----------------------------------|-----|---------|-----------------------|---------------------|------------------------------|---|--------------|-----------|------|
| MSD | Sample ID: 20111414-12AMSD | | | | Units: mg/Kg | | Analysis Date: 11/18/2020 07:45 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912087 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.1605 0.019 0.1542 0.008462 98.6 75-125 0.1575 1.86 35

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-05B | 20111403-06B | 20111403-07B |
| 20111403-08B | 20111403-09B | |

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **168427** Instrument ID **HG4** Method: **SW7471B**

| MBLK | | Sample ID: MBLK-168427-168427 | | | | Units: mg/Kg | | Analysis Date: 12/1/2020 08:20 AM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201201A | | | | SeqNo: 6944415 | | Prep Date: 11/30/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | U | 0.020 | | | | | | | | | |

| LCS | | Sample ID: LCS-168427-168427 | | | | Units: mg/Kg | | Analysis Date: 12/1/2020 08:22 AM | | | |
|------------|--------|-------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201201A | | | | SeqNo: 6944416 | | Prep Date: 11/30/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.1692 | 0.020 | 0.1665 | 0 | 102 | 80-120 | 0 | | | | |

| MS | | Sample ID: 20111726-41AMS | | | | Units: mg/Kg | | Analysis Date: 12/1/2020 09:18 AM | | | |
|------------|---------|----------------------------------|---------|---------------|-------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201201A | | | | SeqNo: 6944446 | | Prep Date: 11/30/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.06123 | 0.019 | 0.1614 | 0.06306 | -1.14 | 75-125 | 0 | | | S | |

| MSD | | Sample ID: 20111726-41AMSD | | | | Units: mg/Kg | | Analysis Date: 12/1/2020 09:20 AM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: HG4_201201A | | | | SeqNo: 6944447 | | Prep Date: 11/30/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Mercury | 0.347 | 0.020 | 0.1643 | 0.06306 | 173 | 75-125 | 0.06123 | 140 | 35 | SRE | |

The following samples were analyzed in this batch: 20111403-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167860** Instrument ID **ICPMS3** Method: **SW6020B**

| MBLK | | Sample ID: MBLK-167860-167860 | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 09:04 PM | | |
|------------|--------|--------------------------------------|---------|---------------|-----------------------|---------------------|------------------------------|---|--------------|------|
| Client ID: | | Run ID: ICPMS3_201117B | | | SeqNo: 6908327 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | U | 0.25 | | | | | | | | |
| Barium | U | 0.25 | | | | | | | | |
| Cadmium | U | 0.10 | | | | | | | | |
| Chromium | U | 0.25 | | | | | | | | |
| Lead | U | 0.25 | | | | | | | | |
| Selenium | U | 0.25 | | | | | | | | |
| Silver | U | 0.25 | | | | | | | | |

| LCS | | Sample ID: LCS-167860-167860 | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 09:06 PM | | |
|------------|--------|-------------------------------------|---------|---------------|-----------------------|---------------------|------------------------------|---|--------------|------|
| Client ID: | | Run ID: ICPMS3_201117B | | | SeqNo: 6908328 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 5.101 | 0.25 | 5 | 0 | 102 | 80-120 | 0 | | | |
| Barium | 5.047 | 0.25 | 5 | 0 | 101 | 80-120 | 0 | | | |
| Cadmium | 5.156 | 0.10 | 5 | 0 | 103 | 80-120 | 0 | | | |
| Chromium | 5.484 | 0.25 | 5 | 0 | 110 | 80-120 | 0 | | | |
| Lead | 5.18 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | |
| Selenium | 4.984 | 0.25 | 5 | 0 | 99.7 | 80-120 | 0 | | | |
| Silver | 5.196 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | |

| MS | | Sample ID: 20111507-01BMS | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 09:53 PM | | |
|------------|--------|----------------------------------|---------|---------------|-----------------------|---------------------|------------------------------|---|--------------|------|
| Client ID: | | Run ID: ICPMS3_201117B | | | SeqNo: 6908355 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 8.097 | 0.33 | 6.519 | 1.631 | 99.2 | 75-125 | 0 | | | |
| Barium | 186.2 | 0.33 | 6.519 | 191.5 | -80.6 | 75-125 | 0 | | | SEO |
| Cadmium | 6.646 | 0.13 | 6.519 | 0.2922 | 97.5 | 75-125 | 0 | | | |
| Chromium | 12.34 | 0.33 | 6.519 | 4.609 | 119 | 75-125 | 0 | | | |
| Lead | 60.62 | 0.33 | 6.519 | 56.58 | 62.1 | 75-125 | 0 | | | SO |
| Selenium | 6.585 | 0.33 | 6.519 | 0.4286 | 94.4 | 75-125 | 0 | | | |
| Silver | 6.468 | 0.33 | 6.519 | 0.01567 | 99 | 75-125 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167860** Instrument ID **ICPMS3** Method: **SW6020B**

| MSD | | Sample ID: 20111507-01BMSD | | | | Units: mg/Kg | | Analysis Date: 11/17/2020 09:54 PM | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|---------------------|------------------------------|---|--------------|------|
| Client ID: | | Run ID: ICPMS3_201117B | | | SeqNo: 6908356 | | Prep Date: 11/17/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 8.936 | 0.35 | 6.925 | 1.631 | 105 | 75-125 | 8.097 | 9.86 | 20 | |
| Barium | 221.3 | 0.35 | 6.925 | 191.5 | 431 | 75-125 | 186.2 | 17.2 | 20 | SEO |
| Cadmium | 7.287 | 0.14 | 6.925 | 0.2922 | 101 | 75-125 | 6.646 | 9.2 | 20 | |
| Chromium | 13.69 | 0.35 | 6.925 | 4.609 | 131 | 75-125 | 12.34 | 10.3 | 20 | S |
| Lead | 68.15 | 0.35 | 6.925 | 56.58 | 167 | 75-125 | 60.62 | 11.7 | 20 | SO |
| Selenium | 7.01 | 0.35 | 6.925 | 0.4286 | 95 | 75-125 | 6.585 | 6.25 | 20 | |
| Silver | 7.129 | 0.35 | 6.925 | 0.01567 | 103 | 75-125 | 6.468 | 9.72 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-01B | 20111403-02B | 20111403-03B |
| 20111403-04B | 20111403-05B | 20111403-06B |
| 20111403-07B | 20111403-08B | 20111403-09B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167928 Instrument ID SVMS9 Method: SW846 8270D

| MBLK | Sample ID: SBLKS1-167928-167928 | | | | Units: µg/Kg | | Analysis Date: 11/20/2020 12:50 PM | | | | |
|-----------------------------|---------------------------------|-----|---------|----------------|-----------------------|---------------|------------------------------------|------|-----------|------|--|
| Client ID: | Run ID: SVMS9_201120A | | | SeqNo: 6930219 | Prep Date: 11/18/2020 | DF: 1 | | | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | U | 33 | | | | | | | | | |
| 2,4,5-Trichlorophenol | U | 33 | | | | | | | | | |
| 2,4,6-Trichlorophenol | U | 33 | | | | | | | | | |
| 2,4-Dichlorophenol | U | 33 | | | | | | | | | |
| 2,4-Dimethylphenol | U | 33 | | | | | | | | | |
| 2,4-Dinitrophenol | U | 670 | | | | | | | | | |
| 2,4-Dinitrotoluene | U | 33 | | | | | | | | | |
| 2,6-Dinitrotoluene | U | 33 | | | | | | | | | |
| 2-Chloronaphthalene | U | 6.7 | | | | | | | | | |
| 2-Chlorophenol | U | 33 | | | | | | | | | |
| 2-Methylnaphthalene | U | 6.7 | | | | | | | | | |
| 2-Methylphenol | U | 33 | | | | | | | | | |
| 2-Nitroaniline | U | 33 | | | | | | | | | |
| 2-Nitrophenol | U | 33 | | | | | | | | | |
| 3&4-Methylphenol | U | 33 | | | | | | | | | |
| 3,3'-Dichlorobenzidine | U | 170 | | | | | | | | | |
| 3-Nitroaniline | U | 33 | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | U | 33 | | | | | | | | | |
| 4-Bromophenyl phenyl ether | U | 33 | | | | | | | | | |
| 4-Chloro-3-methylphenol | U | 33 | | | | | | | | | |
| 4-Chloroaniline | U | 67 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | U | 33 | | | | | | | | | |
| 4-Nitroaniline | U | 170 | | | | | | | | | |
| 4-Nitrophenol | U | 170 | | | | | | | | | |
| Acenaphthene | U | 6.7 | | | | | | | | | |
| Acenaphthylene | U | 6.7 | | | | | | | | | |
| Acetophenone | U | 33 | | | | | | | | | |
| Anthracene | U | 6.7 | | | | | | | | | |
| Atrazine | U | 33 | | | | | | | | | |
| Benzaldehyde | U | 67 | | | | | | | | | |
| Benzo(a)anthracene | U | 6.7 | | | | | | | | | |
| Benzo(a)pyrene | U | 6.7 | | | | | | | | | |
| Benzo(b)fluoranthene | U | 6.7 | | | | | | | | | |
| Benzo(g,h,i)perylene | U | 6.7 | | | | | | | | | |
| Benzo(k)fluoranthene | U | 6.7 | | | | | | | | | |
| Bis(2-chloroethoxy)methane | U | 33 | | | | | | | | | |
| Bis(2-chloroethyl)ether | U | 33 | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | U | 33 | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | U | 33 | | | | | | | | | |
| Butyl benzyl phthalate | U | 67 | | | | | | | | | |
| Caprolactam | U | 67 | | | | | | | | | |
| Carbazole | U | 33 | | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167928 | Instrument ID SVMS9 | Method: SW846 8270D | | | | | | |
|-----------------------------------|----------------------------|----------------------------|------|---|------|--------|---|--|
| Chrysene | U | 6.7 | | | | | | |
| Dibenzo(a,h)anthracene | U | 6.7 | | | | | | |
| Dibenzofuran | U | 33 | | | | | | |
| Diethyl phthalate | U | 33 | | | | | | |
| Dimethyl phthalate | U | 33 | | | | | | |
| Di-n-butyl phthalate | U | 33 | | | | | | |
| Di-n-octyl phthalate | U | 33 | | | | | | |
| Fluoranthene | U | 6.7 | | | | | | |
| Fluorene | U | 6.7 | | | | | | |
| Hexachlorobenzene | U | 33 | | | | | | |
| Hexachlorobutadiene | U | 33 | | | | | | |
| Hexachlorocyclopentadiene | U | 33 | | | | | | |
| Hexachloroethane | U | 33 | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 6.7 | | | | | | |
| Isophorone | U | 170 | | | | | | |
| Naphthalene | U | 6.7 | | | | | | |
| Nitrobenzene | U | 170 | | | | | | |
| N-Nitrosodi-n-propylamine | U | 33 | | | | | | |
| N-Nitrosodiphenylamine | U | 33 | | | | | | |
| Pentachlorophenol | U | 33 | | | | | | |
| Phenanthrene | U | 6.7 | | | | | | |
| Phenol | U | 33 | | | | | | |
| Pyrene | U | 6.7 | | | | | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2601 | 0 | 3333 | 0 | 78 | 38-92 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2700 | 0 | 3333 | 0 | 81 | 44-107 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 2701 | 0 | 3333 | 0 | 81 | 37-109 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 3010 | 0 | 3333 | 0 | 90.3 | 52-123 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 2665 | 0 | 3333 | 0 | 80 | 41-94 | 0 | |
| <i>Surr: Phenol-d6</i> | 3103 | 0 | 3333 | 0 | 93.1 | 28-111 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167928 Instrument ID SVMS9 Method: SW846 8270D

| LCS | | Sample ID: SLCSS1-167928-167928 | | | Units: µg/Kg | | Analysis Date: 11/20/2020 01:14 PM | | | |
|-----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: SVMS9_201120A | | | SeqNo: 6930220 | | Prep Date: 11/18/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 1161 | 33 | 1333 | 0 | 87.1 | 53-97 | 0 | | | |
| 2,4,5-Trichlorophenol | 1107 | 33 | 1333 | 0 | 83.1 | 52-111 | 0 | | | |
| 2,4,6-Trichlorophenol | 1120 | 33 | 1333 | 0 | 84 | 46-105 | 0 | | | |
| 2,4-Dichlorophenol | 1075 | 33 | 1333 | 0 | 80.7 | 47-96 | 0 | | | |
| 2,4-Dimethylphenol | 1464 | 33 | 1333 | 0 | 110 | 49-97 | 0 | | | S |
| 2,4-Dinitrophenol | 544 | 670 | 1333 | 0 | 40.8 | 10-106 | 0 | | | J |
| 2,4-Dinitrotoluene | 1151 | 33 | 1333 | 0 | 86.4 | 58-110 | 0 | | | |
| 2,6-Dinitrotoluene | 1127 | 33 | 1333 | 0 | 84.5 | 59-108 | 0 | | | |
| 2-Chloronaphthalene | 1118 | 6.7 | 1333 | 0 | 83.9 | 56-104 | 0 | | | |
| 2-Chlorophenol | 1083 | 33 | 1333 | 0 | 81.2 | 50-104 | 0 | | | |
| 2-Methylnaphthalene | 1127 | 6.7 | 1333 | 0 | 84.5 | 54-96 | 0 | | | |
| 2-Methylphenol | 1218 | 33 | 1333 | 0 | 91.4 | 49-105 | 0 | | | |
| 2-Nitroaniline | 1229 | 33 | 1333 | 0 | 92.2 | 54-107 | 0 | | | |
| 2-Nitrophenol | 1068 | 33 | 1333 | 0 | 80.1 | 51-94 | 0 | | | |
| 3&4-Methylphenol | 1199 | 33 | 1333 | 0 | 89.9 | 48-105 | 0 | | | |
| 3,3'-Dichlorobenzidine | 1172 | 170 | 1333 | 0 | 87.9 | 39-99 | 0 | | | |
| 3-Nitroaniline | 862 | 33 | 1333 | 0 | 64.7 | 17-92 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 837.3 | 33 | 1333 | 0 | 62.8 | 32-103 | 0 | | | |
| 4-Bromophenyl phenyl ether | 1155 | 33 | 1333 | 0 | 86.6 | 60-106 | 0 | | | |
| 4-Chloro-3-methylphenol | 1220 | 33 | 1333 | 0 | 91.5 | 51-101 | 0 | | | |
| 4-Chloroaniline | 1117 | 67 | 1333 | 0 | 83.8 | 27-110 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 1186 | 33 | 1333 | 0 | 89 | 58-106 | 0 | | | |
| 4-Nitroaniline | 1142 | 170 | 1333 | 0 | 85.7 | 21-100 | 0 | | | |
| 4-Nitrophenol | 976 | 170 | 1333 | 0 | 73.2 | 29-120 | 0 | | | |
| Acenaphthene | 1171 | 6.7 | 1333 | 0 | 87.9 | 55-101 | 0 | | | |
| Acenaphthylene | 1245 | 6.7 | 1333 | 0 | 93.4 | 59-106 | 0 | | | |
| Acetophenone | 1143 | 33 | 1333 | 0 | 85.7 | 51-100 | 0 | | | |
| Anthracene | 1203 | 6.7 | 1333 | 0 | 90.2 | 67-105 | 0 | | | |
| Atrazine | 1300 | 33 | 1333 | 0 | 97.5 | 45-125 | 0 | | | |
| Benzaldehyde | 386 | 67 | 1333 | 0 | 29 | 10-120 | 0 | | | |
| Benzo(a)anthracene | 1201 | 6.7 | 1333 | 0 | 90.1 | 68-105 | 0 | | | |
| Benzo(a)pyrene | 1225 | 6.7 | 1333 | 0 | 91.9 | 68-110 | 0 | | | |
| Benzo(b)fluoranthene | 1219 | 6.7 | 1333 | 0 | 91.4 | 65-110 | 0 | | | |
| Benzo(g,h,i)perylene | 1390 | 6.7 | 1333 | 0 | 104 | 60-120 | 0 | | | |
| Benzo(k)fluoranthene | 1159 | 6.7 | 1333 | 0 | 87 | 66-113 | 0 | | | |
| Bis(2-chloroethoxy)methane | 1140 | 33 | 1333 | 0 | 85.5 | 53-96 | 0 | | | |
| Bis(2-chloroethyl)ether | 1088 | 33 | 1333 | 0 | 81.6 | 47-108 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 1117 | 33 | 1333 | 0 | 83.8 | 47-107 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 1219 | 33 | 1333 | 0 | 91.5 | 59-117 | 0 | | | |
| Butyl benzyl phthalate | 1181 | 67 | 1333 | 0 | 88.6 | 59-106 | 0 | | | |
| Caprolactam | 1159 | 67 | 1333 | 0 | 86.9 | 42-105 | 0 | | | |
| Carbazole | 1248 | 33 | 1333 | 0 | 93.6 | 67-108 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167928 | Instrument ID SVMS9 | | Method: SW846 8270D | | | | | |
|-----------------------------------|---------------------|-----|---------------------|---|------|--------|---|--|
| Chrysene | 1239 | 6.7 | 1333 | 0 | 92.9 | 68-108 | 0 | |
| Dibenzo(a,h)anthracene | 1345 | 6.7 | 1333 | 0 | 101 | 62-119 | 0 | |
| Dibenzofuran | 1169 | 33 | 1333 | 0 | 87.7 | 60-104 | 0 | |
| Diethyl phthalate | 1163 | 33 | 1333 | 0 | 87.3 | 62-111 | 0 | |
| Dimethyl phthalate | 1177 | 33 | 1333 | 0 | 88.3 | 62-106 | 0 | |
| Di-n-butyl phthalate | 1257 | 33 | 1333 | 0 | 94.3 | 59-105 | 0 | |
| Di-n-octyl phthalate | 1149 | 33 | 1333 | 0 | 86.2 | 51-123 | 0 | |
| Fluoranthene | 1198 | 6.7 | 1333 | 0 | 89.9 | 67-106 | 0 | |
| Fluorene | 1199 | 6.7 | 1333 | 0 | 90 | 59-107 | 0 | |
| Hexachlorobenzene | 1166 | 33 | 1333 | 0 | 87.5 | 62-103 | 0 | |
| Hexachlorobutadiene | 1111 | 33 | 1333 | 0 | 83.3 | 51-94 | 0 | |
| Hexachlorocyclopentadiene | 1217 | 33 | 1333 | 0 | 91.3 | 25-120 | 0 | |
| Hexachloroethane | 1068 | 33 | 1333 | 0 | 80.1 | 55-93 | 0 | |
| Indeno(1,2,3-cd)pyrene | 1370 | 6.7 | 1333 | 0 | 103 | 56-120 | 0 | |
| Isophorone | 1185 | 170 | 1333 | 0 | 88.9 | 52-99 | 0 | |
| Naphthalene | 1087 | 6.7 | 1333 | 0 | 81.5 | 46-98 | 0 | |
| Nitrobenzene | 1125 | 170 | 1333 | 0 | 84.4 | 53-95 | 0 | |
| N-Nitrosodi-n-propylamine | 1149 | 33 | 1333 | 0 | 86.2 | 50-104 | 0 | |
| N-Nitrosodiphenylamine | 1171 | 33 | 1333 | 0 | 87.8 | 63-107 | 0 | |
| Pentachlorophenol | 820.7 | 33 | 1333 | 0 | 61.6 | 34-106 | 0 | |
| Phenanthrene | 1183 | 6.7 | 1333 | 0 | 88.7 | 66-101 | 0 | |
| Phenol | 1129 | 33 | 1333 | 0 | 84.7 | 44-109 | 0 | |
| Pyrene | 1160 | 6.7 | 1333 | 0 | 87 | 60-119 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2762 | 0 | 3333 | 0 | 82.9 | 38-92 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2712 | 0 | 3333 | 0 | 81.4 | 44-107 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 2518 | 0 | 3333 | 0 | 75.5 | 37-109 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2911 | 0 | 3333 | 0 | 87.3 | 52-123 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 2700 | 0 | 3333 | 0 | 81 | 41-94 | 0 | |
| <i>Surr: Phenol-d6</i> | 2968 | 0 | 3333 | 0 | 89 | 28-111 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167928 Instrument ID SVMS9 Method: SW846 8270D

| MS | | | | Sample ID: 20111360-12A MS | | | Units: µg/Kg | | Analysis Date: 11/20/2020 03:14 PM | | |
|-----------------------------|--------|-----------------------|---------|----------------------------|------|-----------------------|---------------|-------|------------------------------------|------|--|
| Client ID: | | Run ID: SVMS9_201120A | | SeqNo: 6930225 | | Prep Date: 11/18/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | 1104 | 32 | 1296 | 0 | 85.2 | 53-97 | 0 | | | | |
| 2,4,5-Trichlorophenol | 1201 | 32 | 1296 | 0 | 92.7 | 52-111 | 0 | | | | |
| 2,4,6-Trichlorophenol | 1164 | 32 | 1296 | 0 | 89.8 | 46-105 | 0 | | | | |
| 2,4-Dichlorophenol | 1105 | 32 | 1296 | 0 | 85.3 | 47-96 | 0 | | | | |
| 2,4-Dimethylphenol | 1450 | 32 | 1296 | 0 | 112 | 49-97 | 0 | | | S | |
| 2,4-Dinitrophenol | 242.4 | 650 | 1296 | 0 | 18.7 | 10-106 | 0 | | | J | |
| 2,4-Dinitrotoluene | 1148 | 32 | 1296 | 0 | 88.6 | 58-110 | 0 | | | | |
| 2,6-Dinitrotoluene | 1119 | 32 | 1296 | 0 | 86.4 | 59-108 | 0 | | | | |
| 2-Chloronaphthalene | 1061 | 6.5 | 1296 | 0 | 81.9 | 56-104 | 0 | | | | |
| 2-Chlorophenol | 1075 | 32 | 1296 | 0 | 83 | 50-104 | 0 | | | | |
| 2-Methylnaphthalene | 1106 | 6.5 | 1296 | 13.68 | 84.3 | 54-96 | 0 | | | | |
| 2-Methylphenol | 1160 | 32 | 1296 | 0 | 89.5 | 49-105 | 0 | | | | |
| 2-Nitroaniline | 1218 | 32 | 1296 | 0 | 94 | 54-107 | 0 | | | | |
| 2-Nitrophenol | 1061 | 32 | 1296 | 0 | 81.9 | 51-94 | 0 | | | | |
| 3&4-Methylphenol | 1167 | 32 | 1296 | 0 | 90.1 | 48-105 | 0 | | | | |
| 3,3'-Dichlorobenzidine | 939 | 160 | 1296 | 0 | 72.5 | 39-99 | 0 | | | | |
| 3-Nitroaniline | 889.1 | 32 | 1296 | 0 | 68.6 | 17-92 | 0 | | | | |
| 4,6-Dinitro-2-methylphenol | 566.4 | 32 | 1296 | 0 | 43.7 | 32-103 | 0 | | | | |
| 4-Bromophenyl phenyl ether | 1170 | 32 | 1296 | 0 | 90.3 | 60-106 | 0 | | | | |
| 4-Chloro-3-methylphenol | 1216 | 32 | 1296 | 0 | 93.8 | 51-101 | 0 | | | | |
| 4-Chloroaniline | 1080 | 65 | 1296 | 0 | 83.4 | 27-110 | 0 | | | | |
| 4-Chlorophenyl phenyl ether | 1171 | 32 | 1296 | 0 | 90.4 | 58-106 | 0 | | | | |
| 4-Nitroaniline | 1125 | 160 | 1296 | 0 | 86.8 | 21-100 | 0 | | | | |
| 4-Nitrophenol | 1121 | 160 | 1296 | 0 | 86.5 | 29-120 | 0 | | | | |
| Acenaphthene | 1124 | 6.5 | 1296 | 0 | 86.7 | 55-101 | 0 | | | | |
| Acenaphthylene | 1220 | 6.5 | 1296 | 0 | 94.2 | 59-106 | 0 | | | | |
| Acetophenone | 1079 | 32 | 1296 | 0 | 83.3 | 51-100 | 0 | | | | |
| Anthracene | 1207 | 6.5 | 1296 | 0 | 93.1 | 67-105 | 0 | | | | |
| Atrazine | 1335 | 32 | 1296 | 0 | 103 | 45-125 | 0 | | | | |
| Benzaldehyde | 462 | 65 | 1296 | 0 | 35.7 | 10-120 | 0 | | | | |
| Benzo(a)anthracene | 1248 | 6.5 | 1296 | 0 | 96.3 | 68-105 | 0 | | | | |
| Benzo(a)pyrene | 1238 | 6.5 | 1296 | 7.167 | 95 | 68-110 | 0 | | | | |
| Benzo(b)fluoranthene | 1266 | 6.5 | 1296 | 9.773 | 96.9 | 65-110 | 0 | | | | |
| Benzo(g,h,i)perylene | 1382 | 6.5 | 1296 | 0 | 107 | 60-120 | 0 | | | | |
| Benzo(k)fluoranthene | 1135 | 6.5 | 1296 | 4.561 | 87.3 | 66-113 | 0 | | | | |
| Bis(2-chloroethoxy)methane | 1064 | 32 | 1296 | 0 | 82.1 | 53-96 | 0 | | | | |
| Bis(2-chloroethyl)ether | 1038 | 32 | 1296 | 0 | 80.1 | 47-108 | 0 | | | | |
| Bis(2-chloroisopropyl)ether | 1074 | 32 | 1296 | 0 | 82.9 | 47-107 | 0 | | | | |
| Bis(2-ethylhexyl)phthalate | 1271 | 32 | 1296 | 0 | 98.1 | 59-117 | 0 | | | | |
| Butyl benzyl phthalate | 1271 | 65 | 1296 | 0 | 98.1 | 59-106 | 0 | | | | |
| Caprolactam | 1258 | 65 | 1296 | 0 | 97.1 | 42-105 | 0 | | | | |
| Carbazole | 1246 | 32 | 1296 | 0 | 96.2 | 67-108 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167928 | Instrument ID SVMS9 | | Method: SW846 8270D | | | | | |
|-----------------------------------|---------------------|-----|---------------------|-------|------|--------|---|--|
| Chrysene | 1223 | 6.5 | 1296 | 0 | 94.4 | 68-108 | 0 | |
| Dibenzo(a,h)anthracene | 1341 | 6.5 | 1296 | 0 | 103 | 62-119 | 0 | |
| Dibenzofuran | 1148 | 32 | 1296 | 0 | 88.6 | 60-104 | 0 | |
| Diethyl phthalate | 1166 | 32 | 1296 | 0 | 90 | 62-111 | 0 | |
| Dimethyl phthalate | 1163 | 32 | 1296 | 0 | 89.7 | 62-106 | 0 | |
| Di-n-butyl phthalate | 1274 | 32 | 1296 | 0 | 98.3 | 59-105 | 0 | |
| Di-n-octyl phthalate | 1231 | 32 | 1296 | 0 | 95 | 51-123 | 0 | |
| Fluoranthene | 1222 | 6.5 | 1296 | 0 | 94.3 | 67-106 | 0 | |
| Fluorene | 1161 | 6.5 | 1296 | 0 | 89.6 | 59-107 | 0 | |
| Hexachlorobenzene | 1152 | 32 | 1296 | 0 | 88.9 | 62-103 | 0 | |
| Hexachlorobutadiene | 1062 | 32 | 1296 | 0 | 82 | 51-94 | 0 | |
| Hexachlorocyclopentadiene | 1024 | 32 | 1296 | 0 | 79 | 25-120 | 0 | |
| Hexachloroethane | 1061 | 32 | 1296 | 0 | 81.9 | 55-93 | 0 | |
| Indeno(1,2,3-cd)pyrene | 1383 | 6.5 | 1296 | 0 | 107 | 56-120 | 0 | |
| Isophorone | 1133 | 160 | 1296 | 0 | 87.4 | 52-99 | 0 | |
| Naphthalene | 1117 | 6.5 | 1296 | 9.773 | 85.5 | 46-98 | 0 | |
| Nitrobenzene | 1065 | 160 | 1296 | 0 | 82.2 | 53-95 | 0 | |
| N-Nitrosodi-n-propylamine | 1059 | 32 | 1296 | 0 | 81.7 | 50-104 | 0 | |
| N-Nitrosodiphenylamine | 1176 | 32 | 1296 | 0 | 90.8 | 63-107 | 0 | |
| Pentachlorophenol | 1068 | 32 | 1296 | 0 | 82.4 | 34-106 | 0 | |
| Phenanthrene | 1200 | 6.5 | 1296 | 0 | 92.6 | 66-101 | 0 | |
| Phenol | 1091 | 32 | 1296 | 0 | 84.2 | 44-109 | 0 | |
| Pyrene | 1174 | 6.5 | 1296 | 0 | 90.6 | 60-119 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2818 | 0 | 3240 | 0 | 87 | 38-92 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2558 | 0 | 3240 | 0 | 78.9 | 44-107 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 2527 | 0 | 3240 | 0 | 78 | 37-109 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2920 | 0 | 3240 | 0 | 90.1 | 52-123 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 2521 | 0 | 3240 | 0 | 77.8 | 41-94 | 0 | |
| <i>Surr: Phenol-d6</i> | 2887 | 0 | 3240 | 0 | 89.1 | 28-111 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167928 Instrument ID SVMS9 Method: SW846 8270D

| MSD | | | | Sample ID: 20111360-12A MSD | | | Units: µg/Kg | | Analysis Date: 11/20/2020 03:38 PM | | |
|-----------------------------|--------|-----------------------|---------|-----------------------------|----------------|---------------|-----------------------|-------|------------------------------------|------|--|
| Client ID: | | Run ID: SVMS9_201120A | | | SeqNo: 6930226 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | 1082 | 32 | 1293 | 0 | 83.7 | 53-97 | 1104 | 1.95 | 30 | | |
| 2,4,5-Trichlorophenol | 1150 | 32 | 1293 | 0 | 88.9 | 52-111 | 1201 | 4.36 | 30 | | |
| 2,4,6-Trichlorophenol | 1142 | 32 | 1293 | 0 | 88.3 | 46-105 | 1164 | 1.86 | 30 | | |
| 2,4-Dichlorophenol | 1074 | 32 | 1293 | 0 | 83.1 | 47-96 | 1105 | 2.85 | 30 | | |
| 2,4-Dimethylphenol | 1419 | 32 | 1293 | 0 | 110 | 49-97 | 1450 | 2.21 | 30 | S | |
| 2,4-Dinitrophenol | U | 650 | 1293 | 0 | 0 | 10-106 | 242.4 | 0 | 30 | S | |
| 2,4-Dinitrotoluene | 1067 | 32 | 1293 | 0 | 82.5 | 58-110 | 1148 | 7.31 | 30 | | |
| 2,6-Dinitrotoluene | 1053 | 32 | 1293 | 0 | 81.4 | 59-108 | 1119 | 6.08 | 30 | | |
| 2-Chloronaphthalene | 1049 | 6.5 | 1293 | 0 | 81.1 | 56-104 | 1061 | 1.09 | 30 | | |
| 2-Chlorophenol | 1041 | 32 | 1293 | 0 | 80.5 | 50-104 | 1075 | 3.17 | 30 | | |
| 2-Methylnaphthalene | 1069 | 6.5 | 1293 | 13.68 | 81.6 | 54-96 | 1106 | 3.45 | 30 | | |
| 2-Methylphenol | 1141 | 32 | 1293 | 0 | 88.2 | 49-105 | 1160 | 1.64 | 30 | | |
| 2-Nitroaniline | 1195 | 32 | 1293 | 0 | 92.4 | 54-107 | 1218 | 1.89 | 30 | | |
| 2-Nitrophenol | 1054 | 32 | 1293 | 0 | 81.5 | 51-94 | 1061 | 0.665 | 30 | | |
| 3&4-Methylphenol | 1137 | 32 | 1293 | 0 | 87.9 | 48-105 | 1167 | 2.59 | 30 | | |
| 3,3'-Dichlorobenzidine | 942.5 | 160 | 1293 | 0 | 72.9 | 39-99 | 939 | 0.376 | 30 | | |
| 3-Nitroaniline | 762 | 32 | 1293 | 0 | 58.9 | 17-92 | 889.1 | 15.4 | 30 | | |
| 4,6-Dinitro-2-methylphenol | 487.1 | 32 | 1293 | 0 | 37.7 | 32-103 | 566.4 | 15 | 30 | | |
| 4-Bromophenyl phenyl ether | 1099 | 32 | 1293 | 0 | 85 | 60-106 | 1170 | 6.22 | 30 | | |
| 4-Chloro-3-methylphenol | 1155 | 32 | 1293 | 0 | 89.3 | 51-101 | 1216 | 5.15 | 30 | | |
| 4-Chloroaniline | 986.5 | 65 | 1293 | 0 | 76.3 | 27-110 | 1080 | 9.07 | 30 | | |
| 4-Chlorophenyl phenyl ether | 1098 | 32 | 1293 | 0 | 84.9 | 58-106 | 1171 | 6.39 | 30 | | |
| 4-Nitroaniline | 1104 | 160 | 1293 | 0 | 85.4 | 21-100 | 1125 | 1.86 | 30 | | |
| 4-Nitrophenol | 1036 | 160 | 1293 | 0 | 80.1 | 29-120 | 1121 | 7.86 | 30 | | |
| Acenaphthene | 1095 | 6.5 | 1293 | 0 | 84.6 | 55-101 | 1124 | 2.63 | 30 | | |
| Acenaphthylene | 1171 | 6.5 | 1293 | 0 | 90.6 | 59-106 | 1220 | 4.07 | 30 | | |
| Acetophenone | 1045 | 32 | 1293 | 0 | 80.8 | 51-100 | 1079 | 3.16 | 30 | | |
| Anthracene | 1137 | 6.5 | 1293 | 0 | 87.9 | 67-105 | 1207 | 5.92 | 30 | | |
| Atrazine | 1261 | 32 | 1293 | 0 | 97.5 | 45-125 | 1335 | 5.66 | 30 | | |
| Benzaldehyde | 424.3 | 65 | 1293 | 0 | 32.8 | 10-120 | 462 | 8.5 | 30 | | |
| Benzo(a)anthracene | 1177 | 6.5 | 1293 | 0 | 91 | 68-105 | 1248 | 5.83 | 30 | | |
| Benzo(a)pyrene | 1177 | 6.5 | 1293 | 7.167 | 90.4 | 68-110 | 1238 | 5.06 | 30 | | |
| Benzo(b)fluoranthene | 1174 | 6.5 | 1293 | 9.773 | 90 | 65-110 | 1266 | 7.5 | 30 | | |
| Benzo(g,h,i)perylene | 1325 | 6.5 | 1293 | 0 | 102 | 60-120 | 1382 | 4.14 | 30 | | |
| Benzo(k)fluoranthene | 1096 | 6.5 | 1293 | 4.561 | 84.4 | 66-113 | 1135 | 3.48 | 30 | | |
| Bis(2-chloroethoxy)methane | 1036 | 32 | 1293 | 0 | 80.1 | 53-96 | 1064 | 2.7 | 30 | | |
| Bis(2-chloroethyl)ether | 1019 | 32 | 1293 | 0 | 78.8 | 47-108 | 1038 | 1.87 | 30 | | |
| Bis(2-chloroisopropyl)ether | 1054 | 32 | 1293 | 0 | 81.5 | 47-107 | 1074 | 1.88 | 30 | | |
| Bis(2-ethylhexyl)phthalate | 1190 | 32 | 1293 | 0 | 92 | 59-117 | 1271 | 6.6 | 30 | | |
| Butyl benzyl phthalate | 1193 | 65 | 1293 | 0 | 92.3 | 59-106 | 1271 | 6.27 | 30 | | |
| Caprolactam | 1167 | 65 | 1293 | 0 | 90.2 | 42-105 | 1258 | 7.49 | 30 | | |
| Carbazole | 1193 | 32 | 1293 | 0 | 92.3 | 67-108 | 1246 | 4.31 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167928 | Instrument ID SVMS9 | Method: SW846 8270D | | | | | | | | |
|-----------------------------------|---------------------|---------------------|------|-------|------|--------|------|-------|----|--|
| Chrysene | 1174 | 6.5 | 1293 | 0 | 90.8 | 68-108 | 1223 | 4.06 | 30 | |
| Dibenzo(a,h)anthracene | 1277 | 6.5 | 1293 | 0 | 98.7 | 62-119 | 1341 | 4.87 | 30 | |
| Dibenzofuran | 1106 | 32 | 1293 | 0 | 85.5 | 60-104 | 1148 | 3.74 | 30 | |
| Diethyl phthalate | 1104 | 32 | 1293 | 0 | 85.3 | 62-111 | 1166 | 5.48 | 30 | |
| Dimethyl phthalate | 1097 | 32 | 1293 | 0 | 84.8 | 62-106 | 1163 | 5.79 | 30 | |
| Di-n-butyl phthalate | 1187 | 32 | 1293 | 0 | 91.8 | 59-105 | 1274 | 7.07 | 30 | |
| Di-n-octyl phthalate | 1148 | 32 | 1293 | 0 | 88.7 | 51-123 | 1231 | 6.98 | 30 | |
| Fluoranthene | 1162 | 6.5 | 1293 | 0 | 89.8 | 67-106 | 1222 | 5.06 | 30 | |
| Fluorene | 1106 | 6.5 | 1293 | 0 | 85.5 | 59-107 | 1161 | 4.86 | 30 | |
| Hexachlorobenzene | 1099 | 32 | 1293 | 0 | 85 | 62-103 | 1152 | 4.72 | 30 | |
| Hexachlorobutadiene | 1041 | 32 | 1293 | 0 | 80.5 | 51-94 | 1062 | 1.96 | 30 | |
| Hexachlorocyclopentadiene | 1025 | 32 | 1293 | 0 | 79.3 | 25-120 | 1024 | 0.141 | 30 | |
| Hexachloroethane | 1025 | 32 | 1293 | 0 | 79.3 | 55-93 | 1061 | 3.46 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1313 | 6.5 | 1293 | 0 | 102 | 56-120 | 1383 | 5.22 | 30 | |
| Isophorone | 1106 | 160 | 1293 | 0 | 85.5 | 52-99 | 1133 | 2.43 | 30 | |
| Naphthalene | 1090 | 6.5 | 1293 | 9.773 | 83.5 | 46-98 | 1117 | 2.46 | 30 | |
| Nitrobenzene | 1035 | 160 | 1293 | 0 | 80 | 53-95 | 1065 | 2.89 | 30 | |
| N-Nitrosodi-n-propylamine | 1050 | 32 | 1293 | 0 | 81.2 | 50-104 | 1059 | 0.851 | 30 | |
| N-Nitrosodiphenylamine | 1118 | 32 | 1293 | 0 | 86.5 | 63-107 | 1176 | 5.03 | 30 | |
| Pentachlorophenol | 1041 | 32 | 1293 | 0 | 80.5 | 34-106 | 1068 | 2.51 | 30 | |
| Phenanthrene | 1142 | 6.5 | 1293 | 0 | 88.3 | 66-101 | 1200 | 4.93 | 30 | |
| Phenol | 1078 | 32 | 1293 | 0 | 83.3 | 44-109 | 1091 | 1.25 | 30 | |
| Pyrene | 1115 | 6.5 | 1293 | 0 | 86.2 | 60-119 | 1174 | 5.16 | 30 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2692 | 0 | 3234 | 0 | 83.2 | 38-92 | 2818 | 4.59 | 40 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2525 | 0 | 3234 | 0 | 78.1 | 44-107 | 2558 | 1.27 | 40 | |
| <i>Surr: 2-Fluorophenol</i> | 2444 | 0 | 3234 | 0 | 75.6 | 37-109 | 2527 | 3.35 | 40 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2754 | 0 | 3234 | 0 | 85.1 | 52-123 | 2920 | 5.86 | 40 | |
| <i>Surr: Nitrobenzene-d5</i> | 2487 | 0 | 3234 | 0 | 76.9 | 41-94 | 2521 | 1.34 | 40 | |
| <i>Surr: Phenol-d6</i> | 2766 | 0 | 3234 | 0 | 85.5 | 28-111 | 2887 | 4.28 | 40 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-01B | 20111403-02B | 20111403-03B |
| 20111403-04B | 20111403-05B | 20111403-06B |
| 20111403-07B | 20111403-08B | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 168076 Instrument ID SVMS9 Method: SW846 8270D

| MBLK | | Sample ID: SBLKS1-168076-168076 | | | | Units: µg/Kg | | Analysis Date: 11/23/2020 09:25 PM | | |
|-----------------------------|--------|---------------------------------|---------|----------------|------|-----------------------|---------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: SVMS9_201123A | | SeqNo: 6932663 | | Prep Date: 11/20/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | U | 33 | | | | | | | | |
| 2,4,5-Trichlorophenol | U | 33 | | | | | | | | |
| 2,4,6-Trichlorophenol | U | 33 | | | | | | | | |
| 2,4-Dichlorophenol | U | 33 | | | | | | | | |
| 2,4-Dimethylphenol | U | 33 | | | | | | | | |
| 2,4-Dinitrophenol | U | 670 | | | | | | | | |
| 2,4-Dinitrotoluene | U | 33 | | | | | | | | |
| 2,6-Dinitrotoluene | U | 33 | | | | | | | | |
| 2-Chloronaphthalene | U | 6.7 | | | | | | | | |
| 2-Chlorophenol | U | 33 | | | | | | | | |
| 2-Methylnaphthalene | U | 6.7 | | | | | | | | |
| 2-Methylphenol | U | 33 | | | | | | | | |
| 2-Nitroaniline | U | 33 | | | | | | | | |
| 2-Nitrophenol | U | 33 | | | | | | | | |
| 3&4-Methylphenol | U | 33 | | | | | | | | |
| 3,3'-Dichlorobenzidine | U | 170 | | | | | | | | |
| 3-Nitroaniline | U | 33 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | U | 33 | | | | | | | | |
| 4-Bromophenyl phenyl ether | U | 33 | | | | | | | | |
| 4-Chloro-3-methylphenol | U | 33 | | | | | | | | |
| 4-Chloroaniline | U | 67 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | U | 33 | | | | | | | | |
| 4-Nitroaniline | U | 170 | | | | | | | | |
| 4-Nitrophenol | U | 170 | | | | | | | | |
| Acenaphthene | U | 6.7 | | | | | | | | |
| Acenaphthylene | U | 6.7 | | | | | | | | |
| Acetophenone | U | 33 | | | | | | | | |
| Anthracene | U | 6.7 | | | | | | | | |
| Atrazine | U | 33 | | | | | | | | |
| Benzaldehyde | U | 67 | | | | | | | | |
| Benzo(a)anthracene | U | 6.7 | | | | | | | | |
| Benzo(a)pyrene | U | 6.7 | | | | | | | | |
| Benzo(b)fluoranthene | U | 6.7 | | | | | | | | |
| Benzo(g,h,i)perylene | U | 6.7 | | | | | | | | |
| Benzo(k)fluoranthene | U | 6.7 | | | | | | | | |
| Bis(2-chloroethoxy)methane | U | 33 | | | | | | | | |
| Bis(2-chloroethyl)ether | U | 33 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | U | 33 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | U | 33 | | | | | | | | |
| Butyl benzyl phthalate | U | 67 | | | | | | | | |
| Caprolactam | U | 67 | | | | | | | | |
| Carbazole | U | 33 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 168076 | Instrument ID SVMS9 | Method: SW846 8270D | | | | | |
|-----------------------------------|----------------------------|----------------------------|------|---|------|--------|---|
| Chrysene | U | 6.7 | | | | | |
| Dibenzo(a,h)anthracene | U | 6.7 | | | | | |
| Dibenzofuran | U | 33 | | | | | |
| Diethyl phthalate | U | 33 | | | | | |
| Dimethyl phthalate | U | 33 | | | | | |
| Di-n-butyl phthalate | U | 33 | | | | | |
| Di-n-octyl phthalate | U | 33 | | | | | |
| Fluoranthene | U | 6.7 | | | | | |
| Fluorene | U | 6.7 | | | | | |
| Hexachlorobenzene | U | 33 | | | | | |
| Hexachlorobutadiene | U | 33 | | | | | |
| Hexachlorocyclopentadiene | U | 33 | | | | | |
| Hexachloroethane | U | 33 | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 6.7 | | | | | |
| Isophorone | U | 170 | | | | | |
| Naphthalene | U | 6.7 | | | | | |
| Nitrobenzene | U | 170 | | | | | |
| N-Nitrosodi-n-propylamine | U | 33 | | | | | |
| N-Nitrosodiphenylamine | U | 33 | | | | | |
| Pentachlorophenol | U | 33 | | | | | |
| Phenanthrene | U | 6.7 | | | | | |
| Phenol | U | 33 | | | | | |
| Pyrene | U | 6.7 | | | | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2329 | 0 | 3333 | 0 | 69.9 | 38-92 | 0 |
| <i>Surr: 2-Fluorobiphenyl</i> | 2630 | 0 | 3333 | 0 | 78.9 | 44-107 | 0 |
| <i>Surr: 2-Fluorophenol</i> | 2459 | 0 | 3333 | 0 | 73.8 | 37-109 | 0 |
| <i>Surr: 4-Terphenyl-d14</i> | 2595 | 0 | 3333 | 0 | 77.9 | 52-123 | 0 |
| <i>Surr: Nitrobenzene-d5</i> | 2349 | 0 | 3333 | 0 | 70.5 | 41-94 | 0 |
| <i>Surr: Phenol-d6</i> | 2702 | 0 | 3333 | 0 | 81.1 | 28-111 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 168076 Instrument ID SVMS9 Method: SW846 8270D

| LCS | | Sample ID: SLCSS1-168076-168076 | | | Units: µg/Kg | | Analysis Date: 11/23/2020 09:48 PM | | | |
|-----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: SVMS9_201123A | | | SeqNo: 6932664 | | Prep Date: 11/20/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 1025 | 33 | 1333 | 0 | 76.9 | 53-97 | 0 | | | |
| 2,4,5-Trichlorophenol | 1050 | 33 | 1333 | 0 | 78.8 | 52-111 | 0 | | | |
| 2,4,6-Trichlorophenol | 992 | 33 | 1333 | 0 | 74.4 | 46-105 | 0 | | | |
| 2,4-Dichlorophenol | 1007 | 33 | 1333 | 0 | 75.5 | 47-96 | 0 | | | |
| 2,4-Dimethylphenol | 924 | 33 | 1333 | 0 | 69.3 | 49-97 | 0 | | | |
| 2,4-Dinitrophenol | 732 | 670 | 1333 | 0 | 54.9 | 10-106 | 0 | | | |
| 2,4-Dinitrotoluene | 1087 | 33 | 1333 | 0 | 81.6 | 58-110 | 0 | | | |
| 2,6-Dinitrotoluene | 1082 | 33 | 1333 | 0 | 81.2 | 59-108 | 0 | | | |
| 2-Chloronaphthalene | 1007 | 6.7 | 1333 | 0 | 75.6 | 56-104 | 0 | | | |
| 2-Chlorophenol | 977.3 | 33 | 1333 | 0 | 73.3 | 50-104 | 0 | | | |
| 2-Methylnaphthalene | 1018 | 6.7 | 1333 | 0 | 76.4 | 54-96 | 0 | | | |
| 2-Methylphenol | 1004 | 33 | 1333 | 0 | 75.3 | 49-105 | 0 | | | |
| 2-Nitroaniline | 1088 | 33 | 1333 | 0 | 81.6 | 54-107 | 0 | | | |
| 2-Nitrophenol | 969.3 | 33 | 1333 | 0 | 72.7 | 51-94 | 0 | | | |
| 3&4-Methylphenol | 1040 | 33 | 1333 | 0 | 78 | 48-105 | 0 | | | |
| 3,3'-Dichlorobenzidine | 918.7 | 170 | 1333 | 0 | 68.9 | 39-99 | 0 | | | |
| 3-Nitroaniline | 844.7 | 33 | 1333 | 0 | 63.4 | 17-92 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 1009 | 33 | 1333 | 0 | 75.7 | 32-103 | 0 | | | |
| 4-Bromophenyl phenyl ether | 1093 | 33 | 1333 | 0 | 82 | 60-106 | 0 | | | |
| 4-Chloro-3-methylphenol | 1067 | 33 | 1333 | 0 | 80 | 51-101 | 0 | | | |
| 4-Chloroaniline | 1077 | 67 | 1333 | 0 | 80.8 | 27-110 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 1068 | 33 | 1333 | 0 | 80.1 | 58-106 | 0 | | | |
| 4-Nitroaniline | 549.3 | 170 | 1333 | 0 | 41.2 | 21-100 | 0 | | | |
| 4-Nitrophenol | 1073 | 170 | 1333 | 0 | 80.5 | 29-120 | 0 | | | |
| Acenaphthene | 984 | 6.7 | 1333 | 0 | 73.8 | 55-101 | 0 | | | |
| Acenaphthylene | 1000 | 6.7 | 1333 | 0 | 75 | 59-106 | 0 | | | |
| Acetophenone | 1012 | 33 | 1333 | 0 | 75.9 | 51-100 | 0 | | | |
| Anthracene | 1093 | 6.7 | 1333 | 0 | 82 | 67-105 | 0 | | | |
| Atrazine | 1152 | 33 | 1333 | 0 | 86.4 | 45-125 | 0 | | | |
| Benzaldehyde | 247.3 | 67 | 1333 | 0 | 18.6 | 10-120 | 0 | | | |
| Benzo(a)anthracene | 1085 | 6.7 | 1333 | 0 | 81.4 | 68-105 | 0 | | | |
| Benzo(a)pyrene | 1105 | 6.7 | 1333 | 0 | 82.9 | 68-110 | 0 | | | |
| Benzo(b)fluoranthene | 1116 | 6.7 | 1333 | 0 | 83.7 | 65-110 | 0 | | | |
| Benzo(g,h,i)perylene | 1097 | 6.7 | 1333 | 0 | 82.3 | 60-120 | 0 | | | |
| Benzo(k)fluoranthene | 1130 | 6.7 | 1333 | 0 | 84.8 | 66-113 | 0 | | | |
| Bis(2-chloroethoxy)methane | 1007 | 33 | 1333 | 0 | 75.6 | 53-96 | 0 | | | |
| Bis(2-chloroethyl)ether | 988.7 | 33 | 1333 | 0 | 74.2 | 47-108 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 1007 | 33 | 1333 | 0 | 75.5 | 47-107 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 1077 | 33 | 1333 | 0 | 80.8 | 59-117 | 0 | | | |
| Butyl benzyl phthalate | 1078 | 67 | 1333 | 0 | 80.9 | 59-106 | 0 | | | |
| Caprolactam | 1006 | 67 | 1333 | 0 | 75.5 | 42-105 | 0 | | | |
| Carbazole | 1144 | 33 | 1333 | 0 | 85.8 | 67-108 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 168076 | Instrument ID SVMS9 | Method: SW846 8270D | | | | | | |
|-----------------------------------|---------------------|---------------------|------|---|------|--------|---|--|
| Chrysene | 1104 | 6.7 | 1333 | 0 | 82.8 | 68-108 | 0 | |
| Dibenzo(a,h)anthracene | 1075 | 6.7 | 1333 | 0 | 80.6 | 62-119 | 0 | |
| Dibenzofuran | 1047 | 33 | 1333 | 0 | 78.5 | 60-104 | 0 | |
| Diethyl phthalate | 1103 | 33 | 1333 | 0 | 82.7 | 62-111 | 0 | |
| Dimethyl phthalate | 1095 | 33 | 1333 | 0 | 82.1 | 62-106 | 0 | |
| Di-n-butyl phthalate | 1151 | 33 | 1333 | 0 | 86.3 | 59-105 | 0 | |
| Di-n-octyl phthalate | 1064 | 33 | 1333 | 0 | 79.8 | 51-123 | 0 | |
| Fluoranthene | 1110 | 6.7 | 1333 | 0 | 83.3 | 67-106 | 0 | |
| Fluorene | 1083 | 6.7 | 1333 | 0 | 81.2 | 59-107 | 0 | |
| Hexachlorobenzene | 1097 | 33 | 1333 | 0 | 82.3 | 62-103 | 0 | |
| Hexachlorobutadiene | 972.7 | 33 | 1333 | 0 | 73 | 51-94 | 0 | |
| Hexachlorocyclopentadiene | 948 | 33 | 1333 | 0 | 71.1 | 25-120 | 0 | |
| Hexachloroethane | 974 | 33 | 1333 | 0 | 73.1 | 55-93 | 0 | |
| Indeno(1,2,3-cd)pyrene | 1072 | 6.7 | 1333 | 0 | 80.4 | 56-120 | 0 | |
| Isophorone | 1017 | 170 | 1333 | 0 | 76.3 | 52-99 | 0 | |
| Naphthalene | 988 | 6.7 | 1333 | 0 | 74.1 | 46-98 | 0 | |
| Nitrobenzene | 993.3 | 170 | 1333 | 0 | 74.5 | 53-95 | 0 | |
| N-Nitrosodi-n-propylamine | 1019 | 33 | 1333 | 0 | 76.5 | 50-104 | 0 | |
| N-Nitrosodiphenylamine | 1093 | 33 | 1333 | 0 | 82 | 63-107 | 0 | |
| Pentachlorophenol | 1005 | 33 | 1333 | 0 | 75.4 | 34-106 | 0 | |
| Phenanthrene | 1099 | 6.7 | 1333 | 0 | 82.4 | 66-101 | 0 | |
| Phenol | 988.7 | 33 | 1333 | 0 | 74.2 | 44-109 | 0 | |
| Pyrene | 1106 | 6.7 | 1333 | 0 | 83 | 60-119 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 2477 | 0 | 3333 | 0 | 74.3 | 38-92 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2463 | 0 | 3333 | 0 | 73.9 | 44-107 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 2313 | 0 | 3333 | 0 | 69.4 | 37-109 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2571 | 0 | 3333 | 0 | 77.1 | 52-123 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 2231 | 0 | 3333 | 0 | 66.9 | 41-94 | 0 | |
| <i>Surr: Phenol-d6</i> | 2476 | 0 | 3333 | 0 | 74.3 | 28-111 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **168076** Instrument ID **SVMS9** Method: **SW846 8270D**

| MS | | | | Sample ID: 20111733-01B MS | | | Units: µg/Kg | | Analysis Date: 11/24/2020 01:19 AM | | |
|-----------------------------|--------|------------------------------|---------|-----------------------------------|------|------------------------------|---------------------|---------------|---|------|--|
| Client ID: | | Run ID: SVMS9_201123A | | SeqNo: 6932673 | | Prep Date: 11/20/2020 | | DF: 20 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | 1018 | 630 | 1272 | 0 | 80 | 53-97 | 0 | | | | |
| 2,4,5-Trichlorophenol | 1056 | 630 | 1272 | 0 | 83 | 52-111 | 0 | | | | |
| 2,4,6-Trichlorophenol | 1069 | 630 | 1272 | 0 | 84 | 46-105 | 0 | | | | |
| 2,4-Dichlorophenol | 1005 | 630 | 1272 | 0 | 79 | 47-96 | 0 | | | | |
| 2,4-Dimethylphenol | 865.1 | 630 | 1272 | 0 | 68 | 49-97 | 0 | | | | |
| 2,4-Dinitrophenol | U | 13,000 | 1272 | 0 | 0 | 10-106 | 0 | | | S | |
| 2,4-Dinitrotoluene | 1438 | 630 | 1272 | 0 | 113 | 58-110 | 0 | | | S | |
| 2,6-Dinitrotoluene | 992.3 | 630 | 1272 | 0 | 78 | 59-108 | 0 | | | | |
| 2-Chloronaphthalene | 903.3 | 130 | 1272 | 0 | 71 | 56-104 | 0 | | | | |
| 2-Chlorophenol | 1005 | 630 | 1272 | 0 | 79 | 50-104 | 0 | | | | |
| 2-Methylnaphthalene | 992.3 | 130 | 1272 | 0 | 78 | 54-96 | 0 | | | | |
| 2-Methylphenol | 1043 | 630 | 1272 | 0 | 82 | 49-105 | 0 | | | | |
| 2-Nitroaniline | 1081 | 630 | 1272 | 0 | 85 | 54-107 | 0 | | | | |
| 2-Nitrophenol | 687 | 630 | 1272 | 0 | 54 | 51-94 | 0 | | | | |
| 3&4-Methylphenol | 1056 | 630 | 1272 | 0 | 83 | 48-105 | 0 | | | | |
| 3,3'-Dichlorobenzidine | 916 | 3,200 | 1272 | 0 | 72 | 39-99 | 0 | | | J | |
| 3-Nitroaniline | 1005 | 630 | 1272 | 0 | 79 | 17-92 | 0 | | | | |
| 4,6-Dinitro-2-methylphenol | U | 630 | 1272 | 0 | 0 | 32-103 | 0 | | | S | |
| 4-Bromophenyl phenyl ether | 1030 | 630 | 1272 | 0 | 81 | 60-106 | 0 | | | | |
| 4-Chloro-3-methylphenol | 1158 | 630 | 1272 | 0 | 91 | 51-101 | 0 | | | | |
| 4-Chloroaniline | 801.5 | 1,300 | 1272 | 0 | 63 | 27-110 | 0 | | | J | |
| 4-Chlorophenyl phenyl ether | 1043 | 630 | 1272 | 0 | 82 | 58-106 | 0 | | | | |
| 4-Nitroaniline | 1349 | 3,200 | 1272 | 0 | 106 | 21-100 | 0 | | | JS | |
| 4-Nitrophenol | U | 3,200 | 1272 | 0 | 0 | 29-120 | 0 | | | S | |
| Acenaphthene | 941.4 | 130 | 1272 | 0 | 74 | 55-101 | 0 | | | | |
| Acenaphthylene | 992.3 | 130 | 1272 | 0 | 78 | 59-106 | 0 | | | | |
| Acetophenone | 979.6 | 630 | 1272 | 0 | 77 | 51-100 | 0 | | | | |
| Anthracene | 1056 | 130 | 1272 | 0 | 83 | 67-105 | 0 | | | | |
| Atrazine | 1170 | 630 | 1272 | 0 | 92 | 45-125 | 0 | | | | |
| Benzaldehyde | U | 1,300 | 1272 | 0 | 0 | 10-120 | 0 | | | S | |
| Benzo(a)anthracene | 1158 | 130 | 1272 | 0 | 91 | 68-105 | 0 | | | | |
| Benzo(a)pyrene | 1145 | 130 | 1272 | 0 | 90 | 68-110 | 0 | | | | |
| Benzo(b)fluoranthene | 1221 | 130 | 1272 | 0 | 96 | 65-110 | 0 | | | | |
| Benzo(g,h,i)perylene | 1005 | 130 | 1272 | 0 | 79 | 60-120 | 0 | | | | |
| Benzo(k)fluoranthene | 1107 | 130 | 1272 | 0 | 87 | 66-113 | 0 | | | | |
| Bis(2-chloroethoxy)methane | 954.1 | 630 | 1272 | 0 | 75 | 53-96 | 0 | | | | |
| Bis(2-chloroethyl)ether | 877.8 | 630 | 1272 | 0 | 69 | 47-108 | 0 | | | | |
| Bis(2-chloroisopropyl)ether | 1005 | 630 | 1272 | 0 | 79 | 47-107 | 0 | | | | |
| Bis(2-ethylhexyl)phthalate | 1336 | 630 | 1272 | 0 | 105 | 59-117 | 0 | | | | |
| Butyl benzyl phthalate | 1158 | 1,300 | 1272 | 0 | 91 | 59-106 | 0 | | | J | |
| Caprolactam | 1120 | 1,300 | 1272 | 0 | 88 | 42-105 | 0 | | | J | |
| Carbazole | 1170 | 630 | 1272 | 0 | 92 | 67-108 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 168076 | Instrument ID SVMS9 | | Method: SW846 8270D | | | | | |
|-----------------------------------|---------------------|----------|---------------------|----------|-------------|---------------|----------|---|
| Chrysene | 1056 | 130 | 1272 | 0 | 83 | 68-108 | 0 | |
| Dibenzo(a,h)anthracene | 928.7 | 130 | 1272 | 0 | 73 | 62-119 | 0 | |
| Dibenzofuran | 1056 | 630 | 1272 | 0 | 83 | 60-104 | 0 | |
| Diethyl phthalate | 1120 | 630 | 1272 | 0 | 88 | 62-111 | 0 | |
| Dimethyl phthalate | 1043 | 630 | 1272 | 0 | 82 | 62-106 | 0 | |
| Di-n-butyl phthalate | 1221 | 630 | 1272 | 0 | 96 | 59-105 | 0 | |
| Di-n-octyl phthalate | 1450 | 630 | 1272 | 0 | 114 | 51-123 | 0 | |
| Fluoranthene | 1361 | 130 | 1272 | 169 | 93.7 | 67-106 | 0 | |
| Fluorene | 1030 | 130 | 1272 | 0 | 81 | 59-107 | 0 | |
| Hexachlorobenzene | 966.9 | 630 | 1272 | 0 | 76 | 62-103 | 0 | |
| Hexachlorobutadiene | 852.4 | 630 | 1272 | 0 | 67 | 51-94 | 0 | |
| Hexachlorocyclopentadiene | U | 630 | 1272 | 0 | 0 | 25-120 | 0 | S |
| Hexachloroethane | 852.4 | 630 | 1272 | 0 | 67 | 55-93 | 0 | |
| Indeno(1,2,3-cd)pyrene | 1069 | 130 | 1272 | 0 | 84 | 56-120 | 0 | |
| Isophorone | 1005 | 3,200 | 1272 | 0 | 79 | 52-99 | 0 | J |
| Naphthalene | 941.4 | 130 | 1272 | 0 | 74 | 46-98 | 0 | |
| Nitrobenzene | 1043 | 3,200 | 1272 | 0 | 82 | 53-95 | 0 | J |
| N-Nitrosodi-n-propylamine | 1132 | 630 | 1272 | 0 | 89 | 50-104 | 0 | |
| N-Nitrosodiphenylamine | 1094 | 630 | 1272 | 0 | 86 | 63-107 | 0 | |
| Pentachlorophenol | 687 | 630 | 1272 | 0 | 54 | 34-106 | 0 | |
| Phenanthrene | 1120 | 130 | 1272 | 0 | 88 | 66-101 | 0 | |
| Phenol | 1056 | 630 | 1272 | 0 | 83 | 44-109 | 0 | |
| Pyrene | 1196 | 130 | 1272 | 104 | 85.8 | 60-119 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | <i>2188</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>68.8</i> | <i>38-92</i> | <i>0</i> | |
| <i>Surr: 2-Fluorobiphenyl</i> | <i>2201</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>69.2</i> | <i>44-107</i> | <i>0</i> | |
| <i>Surr: 2-Fluorophenol</i> | <i>2201</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>69.2</i> | <i>37-109</i> | <i>0</i> | |
| <i>Surr: 4-Terphenyl-d14</i> | <i>2328</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>73.2</i> | <i>52-123</i> | <i>0</i> | |
| <i>Surr: Nitrobenzene-d5</i> | <i>2163</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>68</i> | <i>41-94</i> | <i>0</i> | |
| <i>Surr: Phenol-d6</i> | <i>2354</i> | <i>0</i> | <i>3180</i> | <i>0</i> | <i>74</i> | <i>28-111</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 168076 Instrument ID SVMS9 Method: SW846 8270D

| MSD | | | | Sample ID: 20111733-01B MSD | | | Units: µg/Kg | | Analysis Date: 11/24/2020 01:43 AM | | |
|-----------------------------|--------|-----------------------|---------|-----------------------------|------|-----------------------|---------------|--------|------------------------------------|------|--|
| Client ID: | | Run ID: SVMS9_201123A | | SeqNo: 6932674 | | Prep Date: 11/20/2020 | | DF: 20 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | 952.6 | 630 | 1270 | 0 | 75 | 53-97 | 1018 | 6.62 | 30 | | |
| 2,4,5-Trichlorophenol | 1029 | 630 | 1270 | 0 | 81 | 52-111 | 1056 | 2.6 | 30 | | |
| 2,4,6-Trichlorophenol | 1029 | 630 | 1270 | 0 | 81 | 46-105 | 1069 | 3.8 | 30 | | |
| 2,4-Dichlorophenol | 990.7 | 630 | 1270 | 0 | 78 | 47-96 | 1005 | 1.44 | 30 | | |
| 2,4-Dimethylphenol | 800.2 | 630 | 1270 | 0 | 63 | 49-97 | 865.1 | 7.8 | 30 | | |
| 2,4-Dinitrophenol | U | 13,000 | 1270 | 0 | 0 | 10-106 | 0 | 0 | 30 | S | |
| 2,4-Dinitrotoluene | 1207 | 630 | 1270 | 0 | 95 | 58-110 | 1438 | 17.5 | 30 | | |
| 2,6-Dinitrotoluene | 889.1 | 630 | 1270 | 0 | 70 | 59-108 | 992.3 | 11 | 30 | | |
| 2-Chloronaphthalene | 851 | 130 | 1270 | 0 | 67 | 56-104 | 903.3 | 5.96 | 30 | | |
| 2-Chlorophenol | 952.6 | 630 | 1270 | 0 | 75 | 50-104 | 1005 | 5.36 | 30 | | |
| 2-Methylnaphthalene | 914.5 | 130 | 1270 | 0 | 72 | 54-96 | 992.3 | 8.17 | 30 | | |
| 2-Methylphenol | 990.7 | 630 | 1270 | 0 | 78 | 49-105 | 1043 | 5.16 | 30 | | |
| 2-Nitroaniline | 1105 | 630 | 1270 | 0 | 87 | 54-107 | 1081 | 2.16 | 30 | | |
| 2-Nitrophenol | 723.9 | 630 | 1270 | 0 | 57 | 51-94 | 687 | 5.24 | 30 | | |
| 3&4-Methylphenol | 1003 | 630 | 1270 | 0 | 79 | 48-105 | 1056 | 5.1 | 30 | | |
| 3,3'-Dichlorobenzidine | 825.6 | 3,200 | 1270 | 0 | 65 | 39-99 | 916 | 0 | 30 | J | |
| 3-Nitroaniline | 901.8 | 630 | 1270 | 0 | 71 | 17-92 | 1005 | 10.8 | 30 | | |
| 4,6-Dinitro-2-methylphenol | U | 630 | 1270 | 0 | 0 | 32-103 | 0 | 0 | 30 | S | |
| 4-Bromophenyl phenyl ether | 952.6 | 630 | 1270 | 0 | 75 | 60-106 | 1030 | 7.86 | 30 | | |
| 4-Chloro-3-methylphenol | 1029 | 630 | 1270 | 0 | 81 | 51-101 | 1158 | 11.8 | 30 | | |
| 4-Chloroaniline | 749.4 | 1,300 | 1270 | 0 | 59 | 27-110 | 801.5 | 0 | 30 | J | |
| 4-Chlorophenyl phenyl ether | 990.7 | 630 | 1270 | 0 | 78 | 58-106 | 1043 | 5.16 | 30 | | |
| 4-Nitroaniline | 1130 | 3,200 | 1270 | 0 | 89 | 21-100 | 1349 | 0 | 30 | J | |
| 4-Nitrophenol | U | 3,200 | 1270 | 0 | 0 | 29-120 | 1069 | 0 | 30 | S | |
| Acenaphthene | 901.8 | 130 | 1270 | 0 | 71 | 55-101 | 941.4 | 4.3 | 30 | | |
| Acenaphthylene | 927.2 | 130 | 1270 | 0 | 73 | 59-106 | 992.3 | 6.79 | 30 | | |
| Acetophenone | 927.2 | 630 | 1270 | 0 | 73 | 51-100 | 979.6 | 5.5 | 30 | | |
| Anthracene | 965.3 | 130 | 1270 | 0 | 76 | 67-105 | 1056 | 8.97 | 30 | | |
| Atrazine | 1067 | 630 | 1270 | 0 | 84 | 45-125 | 1170 | 9.26 | 30 | | |
| Benzaldehyde | U | 1,300 | 1270 | 0 | 0 | 10-120 | 610.6 | 0 | 30 | S | |
| Benzo(a)anthracene | 1041 | 130 | 1270 | 0 | 82 | 68-105 | 1158 | 10.6 | 30 | | |
| Benzo(a)pyrene | 1130 | 130 | 1270 | 0 | 89 | 68-110 | 1145 | 1.28 | 30 | | |
| Benzo(b)fluoranthene | 1130 | 130 | 1270 | 0 | 89 | 65-110 | 1221 | 7.73 | 30 | | |
| Benzo(g,h,i)perylene | 965.3 | 130 | 1270 | 0 | 76 | 60-120 | 1005 | 4.04 | 30 | | |
| Benzo(k)fluoranthene | 990.7 | 130 | 1270 | 0 | 78 | 66-113 | 1107 | 11.1 | 30 | | |
| Bis(2-chloroethoxy)methane | 876.4 | 630 | 1270 | 0 | 69 | 53-96 | 954.1 | 8.5 | 30 | | |
| Bis(2-chloroethyl)ether | 863.7 | 630 | 1270 | 0 | 68 | 47-108 | 877.8 | 1.63 | 30 | | |
| Bis(2-chloroisopropyl)ether | 978 | 630 | 1270 | 0 | 77 | 47-107 | 1005 | 2.73 | 30 | | |
| Bis(2-ethylhexyl)phthalate | 1232 | 630 | 1270 | 0 | 97 | 59-117 | 1336 | 8.09 | 30 | | |
| Butyl benzyl phthalate | 1054 | 1,300 | 1270 | 0 | 83 | 59-106 | 1158 | 0 | 30 | J | |
| Caprolactam | 1232 | 1,300 | 1270 | 0 | 97 | 42-105 | 1120 | 0 | 30 | J | |
| Carbazole | 1143 | 630 | 1270 | 0 | 90 | 67-108 | 1170 | 2.36 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 168076 | Instrument ID SVMS9 | | Method: SW846 8270D | | | | | | | |
|-----------------------------------|---------------------|-------|---------------------|-----|------|--------|-------|------|----|---|
| Chrysene | 939.9 | 130 | 1270 | 0 | 74 | 68-108 | 1056 | 11.6 | 30 | |
| Dibenzo(a,h)anthracene | 863.7 | 130 | 1270 | 0 | 68 | 62-119 | 928.7 | 7.26 | 30 | |
| Dibenzofuran | 965.3 | 630 | 1270 | 0 | 76 | 60-104 | 1056 | 8.97 | 30 | |
| Diethyl phthalate | 1067 | 630 | 1270 | 0 | 84 | 62-111 | 1120 | 4.82 | 30 | |
| Dimethyl phthalate | 990.7 | 630 | 1270 | 0 | 78 | 62-106 | 1043 | 5.16 | 30 | |
| Di-n-butyl phthalate | 1130 | 630 | 1270 | 0 | 89 | 59-105 | 1221 | 7.73 | 30 | |
| Di-n-octyl phthalate | 1334 | 630 | 1270 | 0 | 105 | 51-123 | 1450 | 8.38 | 30 | |
| Fluoranthene | 1207 | 130 | 1270 | 169 | 81.7 | 67-106 | 1361 | 12 | 30 | |
| Fluorene | 952.6 | 130 | 1270 | 0 | 75 | 59-107 | 1030 | 7.86 | 30 | |
| Hexachlorobenzene | 939.9 | 630 | 1270 | 0 | 74 | 62-103 | 966.9 | 2.83 | 30 | |
| Hexachlorobutadiene | 838.3 | 630 | 1270 | 0 | 66 | 51-94 | 852.4 | 1.67 | 30 | |
| Hexachlorocyclopentadiene | U | 630 | 1270 | 0 | 0 | 25-120 | 241.7 | 0 | 30 | S |
| Hexachloroethane | 876.4 | 630 | 1270 | 0 | 69 | 55-93 | 852.4 | 2.78 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1016 | 130 | 1270 | 0 | 80 | 56-120 | 1069 | 5.04 | 30 | |
| Isophorone | 952.6 | 3,200 | 1270 | 0 | 75 | 52-99 | 1005 | 0 | 30 | J |
| Naphthalene | 863.7 | 130 | 1270 | 0 | 68 | 46-98 | 941.4 | 8.62 | 30 | |
| Nitrobenzene | 914.5 | 3,200 | 1270 | 0 | 72 | 53-95 | 1043 | 0 | 30 | J |
| N-Nitrosodi-n-propylamine | 1003 | 630 | 1270 | 0 | 79 | 50-104 | 1132 | 12.1 | 30 | |
| N-Nitrosodiphenylamine | 1003 | 630 | 1270 | 0 | 79 | 63-107 | 1094 | 8.65 | 30 | |
| Pentachlorophenol | 762 | 630 | 1270 | 0 | 60 | 34-106 | 687 | 10.4 | 30 | |
| Phenanthrene | 990.7 | 130 | 1270 | 0 | 78 | 66-101 | 1120 | 12.2 | 30 | |
| Phenol | 1003 | 630 | 1270 | 0 | 79 | 44-109 | 1056 | 5.1 | 30 | |
| Pyrene | 1054 | 130 | 1270 | 104 | 74.8 | 60-119 | 1196 | 12.6 | 30 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 1981 | 0 | 3175 | 0 | 62.4 | 38-92 | 2188 | 9.92 | 40 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 2108 | 0 | 3175 | 0 | 66.4 | 44-107 | 2201 | 4.29 | 40 | |
| <i>Surr: 2-Fluorophenol</i> | 2019 | 0 | 3175 | 0 | 63.6 | 37-109 | 2201 | 8.6 | 40 | |
| <i>Surr: 4-Terphenyl-d14</i> | 2108 | 0 | 3175 | 0 | 66.4 | 52-123 | 2328 | 9.91 | 40 | |
| <i>Surr: Nitrobenzene-d5</i> | 2007 | 0 | 3175 | 0 | 63.2 | 41-94 | 2163 | 7.48 | 40 | |
| <i>Surr: Phenol-d6</i> | 2210 | 0 | 3175 | 0 | 69.6 | 28-111 | 2354 | 6.29 | 40 | |

The following samples were analyzed in this batch: | 20111403-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167952** Instrument ID **VMS8** Method: **SW8260C**

| MBLK | | Sample ID: MBLK-167952-167952 | | | Units: µg/Kg-dry | | Analysis Date: 11/19/2020 01:02 PM | | | |
|--------------------------------|--------|--------------------------------------|---------|---------------|-------------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: VMS8_201119A | | | SeqNo: 6916726 | | Prep Date: 11/18/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | U | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | U | 30 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | U | 30 | | | | | | | | |
| 1,1-Dichloroethane | U | 30 | | | | | | | | |
| 1,1-Dichloroethene | U | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | U | 100 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | U | 100 | | | | | | | | |
| 1,2-Dibromoethane | U | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | U | 30 | | | | | | | | |
| 1,2-Dichloroethane | U | 100 | | | | | | | | |
| 1,2-Dichloropropane | U | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | U | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | U | 30 | | | | | | | | |
| 2-Butanone | U | 200 | | | | | | | | |
| 2-Hexanone | U | 30 | | | | | | | | |
| 4-Methyl-2-pentanone | U | 30 | | | | | | | | |
| Acetone | U | 100 | | | | | | | | |
| Benzene | U | 30 | | | | | | | | |
| Bromodichloromethane | U | 30 | | | | | | | | |
| Bromoform | U | 30 | | | | | | | | |
| Bromomethane | U | 100 | | | | | | | | |
| Carbon disulfide | U | 30 | | | | | | | | |
| Carbon tetrachloride | U | 30 | | | | | | | | |
| Chlorobenzene | U | 30 | | | | | | | | |
| Chloroethane | U | 100 | | | | | | | | |
| Chloroform | U | 30 | | | | | | | | |
| Chloromethane | U | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | U | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | U | 30 | | | | | | | | |
| Cyclohexane | U | 100 | | | | | | | | |
| Dibromochloromethane | U | 30 | | | | | | | | |
| Dichlorodifluoromethane | U | 100 | | | | | | | | |
| Ethylbenzene | U | 30 | | | | | | | | |
| Isopropylbenzene | U | 30 | | | | | | | | |
| Methyl acetate | U | 250 | | | | | | | | |
| Methyl tert-butyl ether | U | 30 | | | | | | | | |
| Methylcyclohexane | U | 30 | | | | | | | | |
| Methylene chloride | U | 250 | | | | | | | | |
| Styrene | U | 30 | | | | | | | | |
| Tetrachloroethene | U | 30 | | | | | | | | |
| Toluene | U | 30 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167952 | Instrument ID VMS8 | Method: SW8260C | | | | | | |
|------------------------------------|---------------------------|------------------------|------|---|-----|--------|---|--|
| trans-1,2-Dichloroethene | U | 30 | | | | | | |
| trans-1,3-Dichloropropene | U | 30 | | | | | | |
| Trichloroethene | U | 30 | | | | | | |
| Trichlorofluoromethane | U | 30 | | | | | | |
| Vinyl chloride | U | 30 | | | | | | |
| Xylenes, Total | U | 90 | | | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 1016 | 0 | 1000 | 0 | 102 | 70-130 | 0 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 1077 | 0 | 1000 | 0 | 108 | 70-130 | 0 | |
| <i>Surr: Dibromofluoromethane</i> | 1002 | 0 | 1000 | 0 | 100 | 70-130 | 0 | |
| <i>Surr: Toluene-d8</i> | 1030 | 0 | 1000 | 0 | 103 | 70-130 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **167952** Instrument ID **VMS8** Method: **SW8260C**

| LCS | | Sample ID: LCS-167952-167952 | | | Units: µg/Kg-dry | | Analysis Date: 11/19/2020 12:13 PM | | | |
|-----------------------------|--------|-------------------------------------|---------|---------------|-------------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: VMS8_201119A | | | SeqNo: 6916718 | | Prep Date: 11/18/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 1046 | 30 | 1000 | 0 | 105 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 1142 | 30 | 1000 | 0 | 114 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 1073 | 30 | 1000 | 0 | 107 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 1022 | 30 | 1000 | 0 | 102 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 985.5 | 30 | 1000 | 0 | 98.6 | 76-148 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1014 | 100 | 1000 | 0 | 101 | 65-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 946.5 | 100 | 1000 | 0 | 94.6 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 1204 | 30 | 1000 | 0 | 120 | 80-195 | 0 | | | |
| 1,2-Dichlorobenzene | 1110 | 30 | 1000 | 0 | 111 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 1034 | 100 | 1000 | 0 | 103 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 1059 | 30 | 1000 | 0 | 106 | 70-120 | 0 | | | |
| 1,3-Dichlorobenzene | 1100 | 30 | 1000 | 0 | 110 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 1100 | 30 | 1000 | 0 | 110 | 70-125 | 0 | | | |
| 2-Butanone | 976 | 200 | 1000 | 0 | 97.6 | 30-160 | 0 | | | |
| 2-Hexanone | 1091 | 30 | 1000 | 0 | 109 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1638 | 30 | 1000 | 0 | 164 | 74-176 | 0 | | | |
| Acetone | 969 | 100 | 1000 | 0 | 96.9 | 20-160 | 0 | | | |
| Benzene | 1044 | 30 | 1000 | 0 | 104 | 75-125 | 0 | | | |
| Bromodichloromethane | 1032 | 30 | 1000 | 0 | 103 | 70-130 | 0 | | | |
| Bromoform | 936 | 30 | 1000 | 0 | 93.6 | 55-135 | 0 | | | |
| Bromomethane | 758 | 100 | 1000 | 0 | 75.8 | 50-170 | 0 | | | |
| Carbon disulfide | 1050 | 30 | 1000 | 0 | 105 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1004 | 30 | 1000 | 0 | 100 | 65-135 | 0 | | | |
| Chlorobenzene | 1062 | 30 | 1000 | 0 | 106 | 75-125 | 0 | | | |
| Chloroethane | 804 | 100 | 1000 | 0 | 80.4 | 40-155 | 0 | | | |
| Chloroform | 1004 | 30 | 1000 | 0 | 100 | 66-140 | 0 | | | |
| Chloromethane | 789.5 | 100 | 1000 | 0 | 79 | 50-144 | 0 | | | |
| cis-1,2-Dichloroethene | 1039 | 30 | 1000 | 0 | 104 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 1025 | 30 | 1000 | 0 | 102 | 70-125 | 0 | | | |
| Dibromochloromethane | 978.5 | 30 | 1000 | 0 | 97.8 | 65-135 | 0 | | | |
| Dichlorodifluoromethane | 1102 | 100 | 1000 | 0 | 110 | 35-135 | 0 | | | |
| Ethylbenzene | 1218 | 30 | 1000 | 0 | 122 | 75-125 | 0 | | | |
| Isopropylbenzene | 1158 | 30 | 1000 | 0 | 116 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 1082 | 30 | 1000 | 0 | 108 | 75-125 | 0 | | | |
| Methylene chloride | 918.5 | 250 | 1000 | 0 | 91.8 | 55-145 | 0 | | | |
| Styrene | 1116 | 30 | 1000 | 0 | 112 | 80-138 | 0 | | | |
| Tetrachloroethene | 1121 | 30 | 1000 | 0 | 112 | 67-167 | 0 | | | |
| Toluene | 1092 | 30 | 1000 | 0 | 109 | 70-125 | 0 | | | |
| trans-1,2-Dichloroethene | 1039 | 30 | 1000 | 0 | 104 | 65-135 | 0 | | | |
| trans-1,3-Dichloropropene | 1094 | 30 | 1000 | 0 | 109 | 59-129 | 0 | | | |
| Trichloroethene | 989.5 | 30 | 1000 | 0 | 99 | 75-125 | 0 | | | |
| Trichlorofluoromethane | 768.5 | 30 | 1000 | 0 | 76.8 | 25-185 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| | | | | | | | |
|------------------------------------|---------------------------|------------------------|-------------|----------|-------------|---------------|----------|
| Batch ID: 167952 | Instrument ID VMS8 | Method: SW8260C | | | | | |
| Vinyl chloride | 951 | 30 | 1000 | 0 | 95.1 | 60-125 | 0 |
| Xylenes, Total | 3532 | 90 | 3000 | 0 | 118 | 75-125 | 0 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>996</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>99.6</i> | <i>70-130</i> | <i>0</i> |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>1006</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>101</i> | <i>70-130</i> | <i>0</i> |
| <i>Surr: Dibromofluoromethane</i> | <i>1019</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>102</i> | <i>70-130</i> | <i>0</i> |
| <i>Surr: Toluene-d8</i> | <i>994.5</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>99.4</i> | <i>70-130</i> | <i>0</i> |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167952 Instrument ID VMS8 Method: SW8260C

| MS | | | | Sample ID: 20111403-09A MS | | Units: µg/Kg-dry | | Analysis Date: 11/21/2020 01:00 AM | | |
|------------------------------------|--------|-----|---------|----------------------------|------|------------------|---------------|------------------------------------|-----------|-------|
| Client ID: 2020-BH-09-(13-15) Soil | | | | Run ID: VMS8_201120B | | SeqNo: 6920987 | | Prep Date: 11/18/2020 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 1699 | 47 | 1564 | 0 | 109 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 1723 | 47 | 1564 | 0 | 110 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 1681 | 47 | 1564 | 0 | 108 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 1613 | 47 | 1564 | 0 | 103 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1722 | 47 | 1564 | 0 | 110 | 76-148 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1447 | 160 | 1564 | 0 | 92.5 | 65-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 1367 | 160 | 1564 | 0 | 87.4 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 1934 | 47 | 1564 | 0 | 124 | 80-195 | 0 | | | |
| 1,2-Dichlorobenzene | 1693 | 47 | 1564 | 0 | 108 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 1687 | 160 | 1564 | 0 | 108 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 1717 | 47 | 1564 | 0 | 110 | 70-120 | 0 | | | |
| 1,3-Dichlorobenzene | 1704 | 47 | 1564 | 0 | 109 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 1704 | 47 | 1564 | 0 | 109 | 70-125 | 0 | | | |
| 2-Butanone | 1569 | 310 | 1564 | 0 | 100 | 30-160 | 0 | | | |
| 2-Hexanone | 2073 | 47 | 1564 | 0 | 133 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 2443 | 47 | 1564 | 0 | 156 | 74-176 | 0 | | | |
| Acetone | 2961 | 160 | 1564 | 230.2 | 175 | 20-160 | 0 | | | S |
| Benzene | 1718 | 47 | 1564 | 0 | 110 | 75-125 | 0 | | | |
| Bromodichloromethane | 1612 | 47 | 1564 | 0 | 103 | 70-130 | 0 | | | |
| Bromoform | 1437 | 47 | 1564 | 0 | 91.9 | 55-135 | 0 | | | |
| Bromomethane | 1200 | 160 | 1564 | 0 | 76.8 | 50-170 | 0 | | | |
| Carbon disulfide | 1708 | 47 | 1564 | 0 | 109 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1641 | 47 | 1564 | 0 | 105 | 65-135 | 0 | | | |
| Chlorobenzene | 1721 | 47 | 1564 | 0 | 110 | 75-125 | 0 | | | |
| Chloroethane | 208 | 160 | 1564 | 0 | 13.3 | 40-155 | 0 | | | S |
| Chloroform | 1646 | 47 | 1564 | 0 | 105 | 66-140 | 0 | | | |
| Chloromethane | 1328 | 160 | 1564 | 0 | 84.9 | 50-144 | 0 | | | |
| cis-1,2-Dichloroethene | 1703 | 47 | 1564 | 0 | 109 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 1595 | 47 | 1564 | 0 | 102 | 70-125 | 0 | | | |
| Dibromochloromethane | 1485 | 47 | 1564 | 0 | 95 | 65-135 | 0 | | | |
| Dichlorodifluoromethane | 773.4 | 160 | 1564 | 0 | 49.5 | 35-135 | 0 | | | |
| Ethylbenzene | 1895 | 47 | 1564 | 0 | 121 | 75-125 | 0 | | | |
| Isopropylbenzene | 1843 | 47 | 1564 | 0 | 118 | 75-130 | 0 | | | |
| Methyl tert-butyl ether | 1778 | 47 | 1564 | 0 | 114 | 75-125 | 0 | | | |
| Methylene chloride | 958.8 | 390 | 1564 | 0 | 61.3 | 55-145 | 0 | | | |
| Styrene | 1852 | 47 | 1564 | 0 | 118 | 80-138 | 0 | | | |
| Tetrachloroethene | 3047 | 47 | 1564 | 0 | 195 | 67-167 | 0 | | | S |
| Toluene | 1756 | 47 | 1564 | 0 | 112 | 70-125 | 0 | | | |
| trans-1,2-Dichloroethene | 1803 | 47 | 1564 | 0 | 115 | 65-135 | 0 | | | |
| trans-1,3-Dichloropropene | 1656 | 47 | 1564 | 0 | 106 | 59-129 | 0 | | | |
| Trichloroethene | 1674 | 47 | 1564 | 0 | 107 | 75-125 | 0 | | | |
| Trichlorofluoromethane | 1049 | 47 | 1564 | 0 | 67.1 | 25-185 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| | | | | | | | | | |
|------------------------------------|---------------------------|------------------------|-------------|----------|-------------|---------------|----------|---|--|
| Batch ID: 167952 | Instrument ID VMS8 | Method: SW8260C | | | | | | | |
| Vinyl chloride | 544.3 | 47 | 1564 | 0 | 34.8 | 60-125 | 0 | S | |
| Xylenes, Total | 5669 | 140 | 4692 | 0 | 121 | 75-125 | 0 | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>1573</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>101</i> | <i>70-130</i> | <i>0</i> | | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>1636</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>105</i> | <i>70-130</i> | <i>0</i> | | |
| <i>Surr: Dibromofluoromethane</i> | <i>1534</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>98</i> | <i>70-130</i> | <i>0</i> | | |
| <i>Surr: Toluene-d8</i> | <i>1496</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>95.6</i> | <i>70-130</i> | <i>0</i> | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: 167952 Instrument ID VMS8 Method: SW8260C

| MSD | | Sample ID: 20111403-09A MSD | | | Units: µg/Kg-dry | | | Analysis Date: 11/21/2020 01:16 AM | | |
|------------------------------------|--------|-----------------------------|---------|---------------|------------------|---------------|-----------------------|------------------------------------|-----------|------|
| Client ID: 2020-BH-09-(13-15) Soil | | Run ID: VMS8_201120B | | | SeqNo: 6920988 | | Prep Date: 11/18/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 1771 | 47 | 1564 | 0 | 113 | 70-135 | 1699 | 4.15 | 30 | |
| 1,1,2,2-Tetrachloroethane | 1798 | 47 | 1564 | 0 | 115 | 55-130 | 1723 | 4.26 | 30 | |
| 1,1,2-Trichloroethane | 1730 | 47 | 1564 | 0 | 111 | 60-125 | 1681 | 2.84 | 30 | |
| 1,1-Dichloroethane | 1673 | 47 | 1564 | 0 | 107 | 75-125 | 1613 | 3.67 | 30 | |
| 1,1-Dichloroethene | 1731 | 47 | 1564 | 0 | 111 | 76-148 | 1722 | 0.543 | 30 | |
| 1,2,4-Trichlorobenzene | 1538 | 160 | 1564 | 0 | 98.3 | 65-130 | 1447 | 6.08 | 30 | |
| 1,2-Dibromo-3-chloropropane | 1391 | 160 | 1564 | 0 | 89 | 40-135 | 1367 | 1.76 | 30 | |
| 1,2-Dibromoethane | 2022 | 47 | 1564 | 0 | 129 | 80-195 | 1934 | 4.43 | 30 | |
| 1,2-Dichlorobenzene | 1811 | 47 | 1564 | 0 | 116 | 75-120 | 1693 | 6.74 | 30 | |
| 1,2-Dichloroethane | 1706 | 160 | 1564 | 0 | 109 | 70-135 | 1687 | 1.15 | 30 | |
| 1,2-Dichloropropane | 1757 | 47 | 1564 | 0 | 112 | 70-120 | 1717 | 2.34 | 30 | |
| 1,3-Dichlorobenzene | 1796 | 47 | 1564 | 0 | 115 | 70-125 | 1704 | 5.27 | 30 | |
| 1,4-Dichlorobenzene | 1796 | 47 | 1564 | 0 | 115 | 70-125 | 1704 | 5.27 | 30 | |
| 2-Butanone | 1800 | 310 | 1564 | 0 | 115 | 30-160 | 1569 | 13.7 | 30 | |
| 2-Hexanone | 2123 | 47 | 1564 | 0 | 136 | 45-145 | 2073 | 2.39 | 30 | |
| 4-Methyl-2-pentanone | 2499 | 47 | 1564 | 0 | 160 | 74-176 | 2443 | 2.25 | 30 | |
| Acetone | 3066 | 160 | 1564 | 230.2 | 181 | 20-160 | 2961 | 3.48 | 30 | S |
| Benzene | 1738 | 47 | 1564 | 0 | 111 | 75-125 | 1718 | 1.18 | 30 | |
| Bromodichloromethane | 1632 | 47 | 1564 | 0 | 104 | 70-130 | 1612 | 1.25 | 30 | |
| Bromoform | 1564 | 47 | 1564 | 0 | 100 | 55-135 | 1437 | 8.5 | 30 | |
| Bromomethane | 1058 | 160 | 1564 | 0 | 67.7 | 50-170 | 1200 | 12.6 | 30 | |
| Carbon disulfide | 1772 | 47 | 1564 | 0 | 113 | 45-160 | 1708 | 3.69 | 30 | |
| Carbon tetrachloride | 1670 | 47 | 1564 | 0 | 107 | 65-135 | 1641 | 1.8 | 30 | |
| Chlorobenzene | 1790 | 47 | 1564 | 0 | 114 | 75-125 | 1721 | 3.97 | 30 | |
| Chloroethane | 183.8 | 160 | 1564 | 0 | 11.8 | 40-155 | 208 | 12.4 | 30 | S |
| Chloroform | 1656 | 47 | 1564 | 0 | 106 | 66-140 | 1646 | 0.615 | 30 | |
| Chloromethane | 1404 | 160 | 1564 | 0 | 89.8 | 50-144 | 1328 | 5.55 | 30 | |
| cis-1,2-Dichloroethene | 1730 | 47 | 1564 | 0 | 111 | 65-125 | 1703 | 1.59 | 30 | |
| cis-1,3-Dichloropropene | 1644 | 47 | 1564 | 0 | 105 | 70-125 | 1595 | 3.04 | 30 | |
| Dibromochloromethane | 1573 | 47 | 1564 | 0 | 101 | 65-135 | 1485 | 5.73 | 30 | |
| Dichlorodifluoromethane | 833.7 | 160 | 1564 | 0 | 53.3 | 35-135 | 773.4 | 7.49 | 30 | |
| Ethylbenzene | 1981 | 47 | 1564 | 0 | 127 | 75-125 | 1895 | 4.44 | 30 | S |
| Isopropylbenzene | 1940 | 47 | 1564 | 0 | 124 | 75-130 | 1843 | 5.13 | 30 | |
| Methyl tert-butyl ether | 1778 | 47 | 1564 | 0 | 114 | 75-125 | 1778 | 0 | 30 | |
| Methylene chloride | 1425 | 390 | 1564 | 0 | 91.1 | 55-145 | 958.8 | 39.1 | 30 | R |
| Styrene | 1911 | 47 | 1564 | 0 | 122 | 80-138 | 1852 | 3.12 | 30 | |
| Tetrachloroethene | 3177 | 47 | 1564 | 0 | 203 | 67-167 | 3047 | 4.17 | 30 | S |
| Toluene | 1809 | 47 | 1564 | 0 | 116 | 70-125 | 1756 | 2.94 | 30 | |
| trans-1,2-Dichloroethene | 1840 | 47 | 1564 | 0 | 118 | 65-135 | 1803 | 2.06 | 30 | |
| trans-1,3-Dichloropropene | 1708 | 47 | 1564 | 0 | 109 | 59-129 | 1656 | 3.07 | 30 | |
| Trichloroethene | 1785 | 47 | 1564 | 0 | 114 | 75-125 | 1674 | 6.42 | 30 | |
| Trichlorofluoromethane | 1086 | 47 | 1564 | 0 | 69.5 | 25-185 | 1049 | 3.52 | 30 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: 167952 | Instrument ID VMS8 | | Method: SW8260C | | | | | | | |
|------------------------------------|---------------------------|----------|------------------------|----------|-------------|---------------|-------------|--------------|-----------|---|
| Vinyl chloride | 582.6 | 47 | 1564 | 0 | 37.3 | 60-125 | 544.3 | 6.8 | 30 | S |
| Xylenes, Total | 5878 | 140 | 4692 | 0 | 125 | 75-125 | 5669 | 3.62 | 30 | S |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>1606</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>103</i> | <i>70-130</i> | <i>1573</i> | <i>2.12</i> | <i>30</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>1692</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>108</i> | <i>70-130</i> | <i>1636</i> | <i>3.38</i> | <i>30</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>1540</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>98.5</i> | <i>70-130</i> | <i>1534</i> | <i>0.407</i> | <i>30</i> | |
| <i>Surr: Toluene-d8</i> | <i>1553</i> | <i>0</i> | <i>1564</i> | <i>0</i> | <i>99.3</i> | <i>70-130</i> | <i>1496</i> | <i>3.74</i> | <i>30</i> | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-02A | 20111403-03A | 20111403-05A |
| 20111403-09A | 20111403-10A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **R304384** Instrument ID **VMS8** Method: **SW8260C**

| MBLK | | Sample ID: VBLKS1-201124-R304384 | | | | Units: µg/Kg | | Analysis Date: 11/24/2020 12:47 PM | | |
|--------------------------------|--------|---|---------|-----------------------|------|---------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: VMS8_201124A | | SeqNo: 6930537 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | U | 5.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | 5.0 | | | | | | | | |
| 1,1,2-Trichloroethane | U | 5.0 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | U | 5.0 | | | | | | | | |
| 1,1-Dichloroethane | U | 5.0 | | | | | | | | |
| 1,1-Dichloroethene | U | 5.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | U | 5.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | U | 5.0 | | | | | | | | |
| 1,2-Dibromoethane | U | 5.0 | | | | | | | | |
| 1,2-Dichlorobenzene | U | 5.0 | | | | | | | | |
| 1,2-Dichloroethane | U | 5.0 | | | | | | | | |
| 1,2-Dichloropropane | U | 5.0 | | | | | | | | |
| 1,3-Dichlorobenzene | U | 5.0 | | | | | | | | |
| 1,4-Dichlorobenzene | U | 5.0 | | | | | | | | |
| 2-Butanone | U | 10 | | | | | | | | |
| 2-Hexanone | U | 5.0 | | | | | | | | |
| 4-Methyl-2-pentanone | U | 5.0 | | | | | | | | |
| Acetone | U | 10 | | | | | | | | |
| Benzene | U | 5.0 | | | | | | | | |
| Bromodichloromethane | U | 5.0 | | | | | | | | |
| Bromoform | U | 5.0 | | | | | | | | |
| Bromomethane | U | 10 | | | | | | | | |
| Carbon disulfide | U | 5.0 | | | | | | | | |
| Carbon tetrachloride | U | 5.0 | | | | | | | | |
| Chlorobenzene | U | 5.0 | | | | | | | | |
| Chloroethane | U | 5.0 | | | | | | | | |
| Chloroform | U | 5.0 | | | | | | | | |
| Chloromethane | U | 10 | | | | | | | | |
| cis-1,2-Dichloroethene | U | 5.0 | | | | | | | | |
| cis-1,3-Dichloropropene | U | 5.0 | | | | | | | | |
| Cyclohexane | U | 10 | | | | | | | | |
| Dibromochloromethane | U | 5.0 | | | | | | | | |
| Dichlorodifluoromethane | U | 10 | | | | | | | | |
| Ethylbenzene | U | 5.0 | | | | | | | | |
| Isopropylbenzene | U | 5.0 | | | | | | | | |
| Methyl acetate | U | 10 | | | | | | | | |
| Methyl tert-butyl ether | U | 5.0 | | | | | | | | |
| Methylcyclohexane | U | 10 | | | | | | | | |
| Methylene chloride | U | 10 | | | | | | | | |
| Styrene | U | 5.0 | | | | | | | | |
| Tetrachloroethene | U | 5.0 | | | | | | | | |
| Toluene | U | 5.0 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: R304384 | Instrument ID VMS8 | Method: SW8260C | | | | | | |
|------------------------------------|---------------------------|------------------------|---|----|---|------|--------|---|
| trans-1,2-Dichloroethene | U | 5.0 | | | | | | |
| trans-1,3-Dichloropropene | U | 5.0 | | | | | | |
| Trichloroethene | U | 5.0 | | | | | | |
| Trichlorofluoromethane | U | 5.0 | | | | | | |
| Vinyl chloride | U | 5.0 | | | | | | |
| Xylenes, Total | U | 5.0 | | | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | | 18.68 | 0 | 20 | 0 | 93.4 | 83-132 | 0 |
| <i>Surr: 4-Bromofluorobenzene</i> | | 20.66 | 0 | 20 | 0 | 103 | 83-111 | 0 |
| <i>Surr: Dibromofluoromethane</i> | | 19.98 | 0 | 20 | 0 | 99.9 | 77-125 | 0 |
| <i>Surr: Toluene-d8</i> | | 20.59 | 0 | 20 | 0 | 103 | 86-108 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **R304384** Instrument ID **VMS8** Method: **SW8260C**

| LCS | | | | Sample ID: VLCS1-201124-R304384 | | Units: µg/Kg | | Analysis Date: 11/24/2020 11:58 AM | | |
|-----------------------------|--------|-----------------------------|---------|--|-----------------------|---------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: VMS8_201124A | | | SeqNo: 6930536 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 20.82 | 5.0 | 20 | 0 | 104 | 73-138 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 18.98 | 5.0 | 20 | 0 | 94.9 | 71-126 | 0 | | | |
| 1,1,2-Trichloroethane | 18.52 | 5.0 | 20 | 0 | 92.6 | 77-123 | 0 | | | |
| 1,1-Dichloroethane | 19.39 | 5.0 | 20 | 0 | 97 | 63-148 | 0 | | | |
| 1,1-Dichloroethene | 22.35 | 5.0 | 20 | 0 | 112 | 67-156 | 0 | | | |
| 1,2,4-Trichlorobenzene | 19.13 | 5.0 | 20 | 0 | 95.6 | 70-132 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 17.93 | 5.0 | 20 | 0 | 89.6 | 48-127 | 0 | | | |
| 1,2-Dibromoethane | 19.12 | 5.0 | 20 | 0 | 95.6 | 71-144 | 0 | | | |
| 1,2-Dichlorobenzene | 19.21 | 5.0 | 20 | 0 | 96 | 77-127 | 0 | | | |
| 1,2-Dichloroethane | 19.28 | 5.0 | 20 | 0 | 96.4 | 77-127 | 0 | | | |
| 1,2-Dichloropropane | 22.11 | 5.0 | 20 | 0 | 111 | 74-130 | 0 | | | |
| 1,3-Dichlorobenzene | 23.01 | 5.0 | 20 | 0 | 115 | 75-133 | 0 | | | |
| 1,4-Dichlorobenzene | 23.01 | 5.0 | 20 | 0 | 115 | 74-130 | 0 | | | |
| 2-Butanone | 15.28 | 10 | 20 | 0 | 76.4 | 55-132 | 0 | | | |
| 2-Hexanone | 14.76 | 5.0 | 20 | 0 | 73.8 | 55-124 | 0 | | | |
| 4-Methyl-2-pentanone | 22.18 | 5.0 | 20 | 0 | 111 | 67-159 | 0 | | | |
| Acetone | 15.94 | 10 | 20 | 0 | 79.7 | 31-156 | 0 | | | |
| Benzene | 21.94 | 5.0 | 20 | 0 | 110 | 77-133 | 0 | | | |
| Bromodichloromethane | 20.08 | 5.0 | 20 | 0 | 100 | 69-133 | 0 | | | |
| Bromoform | 16.04 | 5.0 | 20 | 0 | 80.2 | 55-126 | 0 | | | |
| Bromomethane | 23.48 | 10 | 20 | 0 | 117 | 31-174 | 0 | | | |
| Carbon disulfide | 23.9 | 5.0 | 20 | 0 | 120 | 45-160 | 0 | | | |
| Carbon tetrachloride | 19.8 | 5.0 | 20 | 0 | 99 | 69-140 | 0 | | | |
| Chlorobenzene | 21.55 | 5.0 | 20 | 0 | 108 | 76-130 | 0 | | | |
| Chloroethane | 19.74 | 5.0 | 20 | 0 | 98.7 | 53-150 | 0 | | | |
| Chloroform | 19.65 | 5.0 | 20 | 0 | 98.2 | 72-132 | 0 | | | |
| Chloromethane | 22.26 | 10 | 20 | 0 | 111 | 43-150 | 0 | | | |
| cis-1,2-Dichloroethene | 20.05 | 5.0 | 20 | 0 | 100 | 74-134 | 0 | | | |
| cis-1,3-Dichloropropene | 19.34 | 5.0 | 20 | 0 | 96.7 | 62-134 | 0 | | | |
| Dibromochloromethane | 17.65 | 5.0 | 20 | 0 | 88.2 | 57-118 | 0 | | | |
| Dichlorodifluoromethane | 25.18 | 10 | 20 | 0 | 126 | 43-126 | 0 | | | |
| Ethylbenzene | 20.14 | 5.0 | 20 | 0 | 101 | 75-133 | 0 | | | |
| Isopropylbenzene | 20.49 | 5.0 | 20 | 0 | 102 | 74-137 | 0 | | | |
| Methyl tert-butyl ether | 18.59 | 5.0 | 20 | 0 | 93 | 62-136 | 0 | | | |
| Methylene chloride | 19.13 | 10 | 20 | 0 | 95.6 | 55-157 | 0 | | | |
| Styrene | 22.5 | 5.0 | 20 | 0 | 112 | 72-138 | 0 | | | |
| Tetrachloroethene | 23.46 | 5.0 | 20 | 0 | 117 | 70-171 | 0 | | | |
| Toluene | 23.05 | 5.0 | 20 | 0 | 115 | 76-130 | 0 | | | |
| trans-1,2-Dichloroethene | 22.35 | 5.0 | 20 | 0 | 112 | 65-137 | 0 | | | |
| trans-1,3-Dichloropropene | 20.72 | 5.0 | 20 | 0 | 104 | 58-126 | 0 | | | |
| Trichloroethene | 21.85 | 5.0 | 20 | 0 | 109 | 75-135 | 0 | | | |
| Trichlorofluoromethane | 14.91 | 5.0 | 20 | 0 | 74.6 | 62-136 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|---------------------------|------------------------|----|---|------|--------|---|--|
| Batch ID: R304384 | Instrument ID VMS8 | Method: SW8260C | | | | | | |
| Vinyl chloride | 23.17 | 5.0 | 20 | 0 | 116 | 57-143 | 0 | |
| Xylenes, Total | 62.9 | 5.0 | 60 | 0 | 105 | 75-132 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 17.65 | 0 | 20 | 0 | 88.2 | 83-132 | 0 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 19.74 | 0 | 20 | 0 | 98.7 | 83-111 | 0 | |
| <i>Surr: Dibromofluoromethane</i> | 19.25 | 0 | 20 | 0 | 96.2 | 77-125 | 0 | |
| <i>Surr: Toluene-d8</i> | 20.37 | 0 | 20 | 0 | 102 | 86-108 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **R304384** Instrument ID **VMS8** Method: **SW8260C**

| MS | | | | Sample ID: 20111403-07A MS | | Units: µg/Kg | | Analysis Date: 11/24/2020 05:18 PM | | |
|----------------------------------|--------|-----|---------|----------------------------|------|----------------|---------------|------------------------------------|-----------|-----------|
| Client ID: 2020-BH-07-(0-1) Soil | | | | Run ID: VMS8_201124A | | SeqNo: 6931216 | | Prep Date: | | DF: 0.998 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 13.96 | 5.0 | 19.96 | 0 | 69.9 | 73-138 | 0 | | | S |
| 1,1,2,2-Tetrachloroethane | 18.07 | 5.0 | 19.96 | 0 | 90.6 | 71-126 | 0 | | | |
| 1,1,2-Trichloroethane | 17.49 | 5.0 | 19.96 | 0 | 87.6 | 77-123 | 0 | | | |
| 1,1-Dichloroethane | 14.36 | 5.0 | 19.96 | 0 | 71.9 | 63-148 | 0 | | | |
| 1,1-Dichloroethene | 14.91 | 5.0 | 19.96 | 0 | 74.7 | 67-156 | 0 | | | |
| 1,2,4-Trichlorobenzene | 12.93 | 5.0 | 19.96 | 0 | 64.8 | 70-132 | 0 | | | S |
| 1,2-Dibromo-3-chloropropane | 18.28 | 5.0 | 19.96 | 0 | 91.6 | 48-127 | 0 | | | |
| 1,2-Dibromoethane | 16.5 | 5.0 | 19.96 | 0 | 82.6 | 71-144 | 0 | | | |
| 1,2-Dichlorobenzene | 15.64 | 5.0 | 19.96 | 0 | 78.4 | 77-127 | 0 | | | |
| 1,2-Dichloroethane | 16.32 | 5.0 | 19.96 | 0 | 81.8 | 77-127 | 0 | | | |
| 1,2-Dichloropropane | 19.54 | 5.0 | 19.96 | 0 | 97.9 | 74-130 | 0 | | | |
| 1,3-Dichlorobenzene | 16.86 | 5.0 | 19.96 | 0 | 84.4 | 75-133 | 0 | | | |
| 1,4-Dichlorobenzene | 16.86 | 5.0 | 19.96 | 0 | 84.4 | 74-130 | 0 | | | |
| 2-Butanone | 30.58 | 10 | 19.96 | 3.098 | 138 | 55-132 | 0 | | | S |
| 2-Hexanone | 28.06 | 5.0 | 19.96 | 0 | 141 | 55-124 | 0 | | | S |
| 4-Methyl-2-pentanone | 26.41 | 5.0 | 19.96 | 0 | 132 | 67-159 | 0 | | | |
| Acetone | 50.08 | 10 | 19.96 | 43.41 | 33.4 | 31-156 | 0 | | | |
| Benzene | 15.77 | 5.0 | 19.96 | 0.374 | 77.1 | 77-133 | 0 | | | |
| Bromodichloromethane | 16.69 | 5.0 | 19.96 | 0 | 83.6 | 69-133 | 0 | | | |
| Bromoform | 15.33 | 5.0 | 19.96 | 0 | 76.8 | 55-126 | 0 | | | |
| Bromomethane | 13.83 | 10 | 19.96 | 0 | 69.3 | 31-174 | 0 | | | |
| Carbon disulfide | 15.31 | 5.0 | 19.96 | 3.187 | 60.7 | 45-160 | 0 | | | |
| Carbon tetrachloride | 13.1 | 5.0 | 19.96 | 0 | 65.6 | 69-140 | 0 | | | S |
| Chlorobenzene | 15.96 | 5.0 | 19.96 | 0 | 79.9 | 76-130 | 0 | | | |
| Chloroethane | 12.95 | 5.0 | 19.96 | 0 | 64.9 | 53-150 | 0 | | | |
| Chloroform | 14.79 | 5.0 | 19.96 | 0 | 74.1 | 72-132 | 0 | | | |
| Chloromethane | 14.91 | 10 | 19.96 | 0 | 74.7 | 43-150 | 0 | | | |
| cis-1,2-Dichloroethene | 14.34 | 5.0 | 19.96 | 0 | 71.9 | 74-134 | 0 | | | S |
| cis-1,3-Dichloropropene | 15.89 | 5.0 | 19.96 | 0 | 79.6 | 62-134 | 0 | | | |
| Dibromochloromethane | 15.09 | 5.0 | 19.96 | 0 | 75.6 | 57-118 | 0 | | | |
| Dichlorodifluoromethane | 14.3 | 10 | 19.96 | 0 | 71.6 | 43-126 | 0 | | | |
| Ethylbenzene | 14.01 | 5.0 | 19.96 | 0 | 70.2 | 75-133 | 0 | | | S |
| Isopropylbenzene | 14.59 | 5.0 | 19.96 | 0 | 73.1 | 74-137 | 0 | | | S |
| Methyl tert-butyl ether | 17.91 | 5.0 | 19.96 | 0 | 89.8 | 62-136 | 0 | | | |
| Methylene chloride | 15.45 | 10 | 19.96 | 0 | 77.4 | 55-157 | 0 | | | |
| Styrene | 17.13 | 5.0 | 19.96 | 0 | 85.8 | 72-138 | 0 | | | |
| Tetrachloroethene | 16.99 | 5.0 | 19.96 | 0 | 85.1 | 70-171 | 0 | | | |
| Toluene | 15.89 | 5.0 | 19.96 | 0 | 79.6 | 76-130 | 0 | | | |
| trans-1,2-Dichloroethene | 15.83 | 5.0 | 19.96 | 0 | 79.3 | 65-137 | 0 | | | |
| trans-1,3-Dichloropropene | 16.85 | 5.0 | 19.96 | 0 | 84.4 | 58-126 | 0 | | | |
| Trichloroethene | 14.88 | 5.0 | 19.96 | 0 | 74.6 | 75-135 | 0 | | | S |
| Trichlorofluoromethane | 9.301 | 5.0 | 19.96 | 0 | 46.6 | 62-136 | 0 | | | S |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|---------------------------|------------------------|--------------|----------|-------------|---------------|----------|--|
| Batch ID: R304384 | Instrument ID VMS8 | Method: SW8260C | | | | | | |
| Vinyl chloride | 14.74 | 5.0 | 19.96 | 0 | 73.9 | 57-143 | 0 | |
| Xylenes, Total | 46.01 | 5.0 | 59.88 | 0 | 76.8 | 75-132 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>18.75</i> | <i>0</i> | <i>19.96</i> | <i>0</i> | <i>93.9</i> | <i>83-132</i> | <i>0</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>19.78</i> | <i>0</i> | <i>19.96</i> | <i>0</i> | <i>99.1</i> | <i>83-111</i> | <i>0</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>19.64</i> | <i>0</i> | <i>19.96</i> | <i>0</i> | <i>98.4</i> | <i>77-125</i> | <i>0</i> | |
| <i>Surr: Toluene-d8</i> | <i>19.83</i> | <i>0</i> | <i>19.96</i> | <i>0</i> | <i>99.4</i> | <i>86-108</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **R304384** Instrument ID **VMS8** Method: **SW8260C**

| MSD | | | | Sample ID: 20111403-07A MSD | | Units: µg/Kg | | Analysis Date: 11/24/2020 05:34 PM | | |
|---|--------|-----|---------|------------------------------------|------|-----------------------|---------------|---|-----------|-----------------|
| Client ID: 2020-BH-07-(0-1) Soil | | | | Run ID: VMS8_201124A | | SeqNo: 6931217 | | Prep Date: | | DF: 0.99 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 18.37 | 5.0 | 19.8 | 0 | 92.8 | 73-138 | 13.96 | 27.3 | 30 | |
| 1,1,2,2-Tetrachloroethane | 20.68 | 5.0 | 19.8 | 0 | 104 | 71-126 | 18.07 | 13.5 | 30 | |
| 1,1,2-Trichloroethane | 18.53 | 5.0 | 19.8 | 0 | 93.6 | 77-123 | 17.49 | 5.76 | 30 | |
| 1,1-Dichloroethane | 18.24 | 5.0 | 19.8 | 0 | 92.1 | 63-148 | 14.36 | 23.8 | 30 | |
| 1,1-Dichloroethene | 20.67 | 5.0 | 19.8 | 0 | 104 | 67-156 | 14.91 | 32.4 | 30 | R |
| 1,2,4-Trichlorobenzene | 14.42 | 5.0 | 19.8 | 0 | 72.8 | 70-132 | 12.93 | 10.9 | 30 | |
| 1,2-Dibromo-3-chloropropane | 20.02 | 5.0 | 19.8 | 0 | 101 | 48-127 | 18.28 | 9.06 | 30 | |
| 1,2-Dibromoethane | 18.4 | 5.0 | 19.8 | 0 | 93 | 71-144 | 16.5 | 10.9 | 30 | |
| 1,2-Dichlorobenzene | 16.65 | 5.0 | 19.8 | 0 | 84.1 | 77-127 | 15.64 | 6.27 | 30 | |
| 1,2-Dichloroethane | 18.51 | 5.0 | 19.8 | 0 | 93.5 | 77-127 | 16.32 | 12.6 | 30 | |
| 1,2-Dichloropropane | 22.33 | 5.0 | 19.8 | 0 | 113 | 74-130 | 19.54 | 13.3 | 30 | |
| 1,3-Dichlorobenzene | 18.81 | 5.0 | 19.8 | 0 | 95 | 75-133 | 16.86 | 11 | 30 | |
| 1,4-Dichlorobenzene | 18.81 | 5.0 | 19.8 | 0 | 95 | 74-130 | 16.86 | 11 | 30 | |
| 2-Butanone | 32.01 | 9.9 | 19.8 | 3.098 | 146 | 55-132 | 30.58 | 4.56 | 30 | S |
| 2-Hexanone | 29.5 | 5.0 | 19.8 | 0 | 149 | 55-124 | 28.06 | 5 | 30 | S |
| 4-Methyl-2-pentanone | 29.21 | 5.0 | 19.8 | 0 | 148 | 67-159 | 26.41 | 10.1 | 30 | |
| Acetone | 59.39 | 9.9 | 19.8 | 43.41 | 80.7 | 31-156 | 50.08 | 17 | 30 | |
| Benzene | 19.46 | 5.0 | 19.8 | 0.374 | 96.4 | 77-133 | 15.77 | 21 | 30 | |
| Bromodichloromethane | 18.86 | 5.0 | 19.8 | 0 | 95.2 | 69-133 | 16.69 | 12.2 | 30 | |
| Bromoform | 16.79 | 5.0 | 19.8 | 0 | 84.8 | 55-126 | 15.33 | 9.1 | 30 | |
| Bromomethane | 18.72 | 9.9 | 19.8 | 0 | 94.6 | 31-174 | 13.83 | 30 | 30 | R |
| Carbon disulfide | 20.71 | 5.0 | 19.8 | 3.187 | 88.5 | 45-160 | 15.31 | 30 | 30 | |
| Carbon tetrachloride | 17.39 | 5.0 | 19.8 | 0 | 87.8 | 69-140 | 13.1 | 28.1 | 30 | |
| Chlorobenzene | 18.7 | 5.0 | 19.8 | 0 | 94.4 | 76-130 | 15.96 | 15.8 | 30 | |
| Chloroethane | 17.5 | 5.0 | 19.8 | 0 | 88.4 | 53-150 | 12.95 | 29.9 | 30 | |
| Chloroform | 18.13 | 5.0 | 19.8 | 0 | 91.6 | 72-132 | 14.79 | 20.3 | 30 | |
| Chloromethane | 18.71 | 9.9 | 19.8 | 0 | 94.5 | 43-150 | 14.91 | 22.6 | 30 | |
| cis-1,2-Dichloroethene | 17.82 | 5.0 | 19.8 | 0 | 90 | 74-134 | 14.34 | 21.6 | 30 | |
| cis-1,3-Dichloropropene | 17.24 | 5.0 | 19.8 | 0 | 87 | 62-134 | 15.89 | 8.14 | 30 | |
| Dibromochloromethane | 17.51 | 5.0 | 19.8 | 0 | 88.4 | 57-118 | 15.09 | 14.9 | 30 | |
| Dichlorodifluoromethane | 20.47 | 9.9 | 19.8 | 0 | 103 | 43-126 | 14.3 | 35.5 | 30 | R |
| Ethylbenzene | 17.59 | 5.0 | 19.8 | 0 | 88.8 | 75-133 | 14.01 | 22.7 | 30 | |
| Isopropylbenzene | 17.61 | 5.0 | 19.8 | 0 | 89 | 74-137 | 14.59 | 18.8 | 30 | |
| Methyl tert-butyl ether | 19.81 | 5.0 | 19.8 | 0 | 100 | 62-136 | 17.91 | 10.1 | 30 | |
| Methylene chloride | 18.34 | 9.9 | 19.8 | 0 | 92.6 | 55-157 | 15.45 | 17.1 | 30 | |
| Styrene | 19.77 | 5.0 | 19.8 | 0 | 99.8 | 72-138 | 17.13 | 14.3 | 30 | |
| Tetrachloroethene | 21.71 | 5.0 | 19.8 | 0 | 110 | 70-171 | 16.99 | 24.4 | 30 | |
| Toluene | 19.91 | 5.0 | 19.8 | 0 | 101 | 76-130 | 15.89 | 22.5 | 30 | |
| trans-1,2-Dichloroethene | 20.45 | 5.0 | 19.8 | 0 | 103 | 65-137 | 15.83 | 25.5 | 30 | |
| trans-1,3-Dichloropropene | 19.6 | 5.0 | 19.8 | 0 | 99 | 58-126 | 16.85 | 15.1 | 30 | |
| Trichloroethene | 18.75 | 5.0 | 19.8 | 0 | 94.7 | 75-135 | 14.88 | 23 | 30 | |
| Trichlorofluoromethane | 13.05 | 5.0 | 19.8 | 0 | 65.9 | 62-136 | 9.301 | 33.5 | 30 | R |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111403
Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

| Batch ID: R304384 | Instrument ID VMS8 | Method: SW8260C | | | | | | | | |
|------------------------------------|---------------------------|------------------------|------|---|------|--------|-------|-------|----|--|
| Vinyl chloride | 19.85 | 5.0 | 19.8 | 0 | 100 | 57-143 | 14.74 | 29.5 | 30 | |
| Xylenes, Total | 55.26 | 5.0 | 59.4 | 0 | 93 | 75-132 | 46.01 | 18.3 | 30 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 18.68 | 0 | 19.8 | 0 | 94.4 | 83-132 | 18.75 | 0.38 | 30 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 20.6 | 0 | 19.8 | 0 | 104 | 83-111 | 19.78 | 4.07 | 30 | |
| <i>Surr: Dibromofluoromethane</i> | 19.23 | 0 | 19.8 | 0 | 97.1 | 77-125 | 19.64 | 2.13 | 30 | |
| <i>Surr: Toluene-d8</i> | 19.95 | 0 | 19.8 | 0 | 101 | 86-108 | 19.83 | 0.594 | 30 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-01A | 20111403-03A | 20111403-04A |
| 20111403-05A | 20111403-06A | 20111403-07A |
| 20111403-08A | 20111403-09A | 20111403-10A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111403
 Project: Golder (Phase II Eaton Shenandoah 20394143)

QC BATCH REPORT

Batch ID: **R303061** Instrument ID **MOIST** Method: **SW3550C**

| MBLK | | Sample ID: WBLKS-R303061 | | | | Units: % of sample | | Analysis Date: 11/18/2020 02:54 PM | | |
|------------|--------|---------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: MOIST_201118C | | | | SeqNo: 6914171 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | U | 0.10 | | | | | | | | |

| LCS | | Sample ID: LCS-R303061 | | | | Units: % of sample | | Analysis Date: 11/18/2020 02:54 PM | | |
|------------|--------|-------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: MOIST_201118C | | | | SeqNo: 6914170 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 99.99 | 0.10 | 100 | 0 | 100 | 98-102 | 0 | | | |

| DUP | | Sample ID: 20111251-27A DUP | | | | Units: % of sample | | Analysis Date: 11/18/2020 02:54 PM | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: MOIST_201118C | | | | SeqNo: 6914147 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 11.71 | 0.10 | 0 | 0 | 0 | 0-0 | 11.73 | 0.171 | 10 | |

| DUP | | Sample ID: 20111251-43A DUP | | | | Units: % of sample | | Analysis Date: 11/18/2020 02:54 PM | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: MOIST_201118C | | | | SeqNo: 6914160 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 15.54 | 0.10 | 0 | 0 | 0 | 0-0 | 15.52 | 0.129 | 10 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111403-01B | 20111403-02B | 20111403-03B |
| 20111403-04B | 20111403-05B | 20111403-06B |
| 20111403-07B | 20111403-08B | 20111403-09B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah 20394143)
WorkOrder: 20111403

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|------------------------------------|
| % of sample | Percent of Sample |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |

Sample Receipt Checklist

Client Name: **GOLDER-MO**

Date/Time Received: **14-Nov-20 11:00**

Work Order: **20111403**

Received by: **MJG**

Checklist completed by Matthew Gaylord 16-Nov-20
eSignature Date

Reviewed by: Gary Byar 16-Nov-20
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 4.0/4.0C IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 11/16/2020 10:17:40 AM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Page 1 of 1

COC ID: 50605

ALS Project Manager:

ALS Work Order #: 20111403

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | | | | | | | | | | | |
|----------------------|--|---------------------|--|---------------------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|
| Purchase Order | <u>20394143</u> | Project Name | <u>PHASE II ESA EATON SHERWOODDAKIA</u> | A | <u>Moisture</u> | | | | | | | | | | |
| Work Order | | Project Number | <u>20394143</u> | B | <u>SVOC</u> | | | | | | | | | | |
| Company Name | <u>Golder Associates Inc.</u> | Bill To Company | <u>Golder Associates Inc</u> | C | <u>Metals ICPMS</u> | | | | | | | | | | |
| Send Report To | <u>annefacth-burd@golder.com</u> | Invoice Attn | | D | <u>VOC</u> | | | | | | | | | | |
| Address | <u>13515 Barnett Parkway Drive Suite 260</u> | Address | <u>13515 Barnett Parkway Drive Suite 260</u> | E | | | | | | | | | | | |
| City/State/Zip | <u>Ballwin MD 63021</u> | City/State/Zip | <u>Ballwin MD 63021</u> | F | | | | | | | | | | | |
| Phone | <u>314-984-8800</u> | Phone | <u>314-984-8800</u> | G | | | | | | | | | | | |
| Fax | | Fax | | H | | | | | | | | | | | |
| e-Mail Address | | e-Mail Address | | I | | | | | | | | | | | |
| | | | | J | | | | | | | | | | | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|--------------------------------|-------------------|-------------|-------------|----------|-----------|----------|----------|----------|----------|---|---|---|---|---|---|------|
| 1 | <u>2020-BH-01-(5-7) Soil</u> | <u>11/11/2020</u> | <u>1005</u> | <u>Soil</u> | <u>7</u> | <u>4</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | |
| 2 | <u>2020-BH-02-(0-1) Soil</u> | <u>11/11/2020</u> | <u>1403</u> | | <u>7</u> | | | | | | | | | | | | |
| 3 | <u>2020-BH-03-(1-3) Soil</u> | <u>11/11/2020</u> | <u>1515</u> | | <u>7</u> | | | | | | | | | | | | |
| 4 | <u>2020-BH-04-(9-11) Soil</u> | <u>11/11/2020</u> | <u>1640</u> | | <u>7</u> | | | | | | | | | | | | |
| 5 | <u>2020-BH-05-(1-3) Soil</u> | <u>11/11/2020</u> | <u>1718</u> | | <u>7</u> | | | | | | | | | | | | |
| 6 | <u>2020-BH-06-(9-11) Soil</u> | <u>11/12/2020</u> | <u>0830</u> | | <u>7</u> | | | | | | | | | | | | |
| 7 | <u>2020-BH-07-(0-1) Soil</u> | <u>11/12/2020</u> | <u>0925</u> | | <u>7</u> | | | | | | | | | | | | |
| 8 | <u>2020-BH-08-(3-5) Soil</u> | <u>11/11/2020</u> | <u>1117</u> | | <u>7</u> | | | | | | | | | | | | |
| 9 | <u>2020-BH-09-(13-15) Soil</u> | <u>11/11/2020</u> | <u>1210</u> | | <u>7</u> | | | | | | | | | | | | |
| 10 | <u>Trip Blank</u> | | | | <u>1</u> | | | | | | | | | | | | |

Sampler(s) Please Print & Sign _____ Shipment Method Fedex Turnaround Time in Business Days (BD) 10 BD 5 BD 3 BD 2 BD 1 BD Results Due Date: _____

| | | | | |
|--|-----------------------|--------------------|--|---|
| Relinquished by: <u>Eric Schneider</u> | Date: <u>11/13/20</u> | Time: <u>1700</u> | Received by: | Notes: <u>"Other" Preservative is MeSH</u> |
| Relinquished by: <u>[Signature]</u> | Date: <u>11/13/20</u> | Time: <u>1700</u> | Received by (Laboratory): <u>[Signature]</u> | Cooler ID: _____ |
| Logged by (Laboratory): <u>MT6</u> | Date: <u>11/16/20</u> | Time: <u>10:16</u> | Checked by (Laboratory): <u>[Signature]</u> | Cooler Temp: <u>4.00C</u> |
| Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035 | | | | QC Package: (Check One Box Below) |
| | | | | <input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist |
| | | | | <input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> TRRP Level IV |
| | | | | <input type="checkbox"/> Level IV SW846/CLP |
| | | | | <input type="checkbox"/> Other _____ |

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2012 by ALS Environmental.

Custody Seal

<http://www.alsglobal.com>

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424-9263
Phone: 616-399-6070
Attn: Sample Receiving

Company:

Name: Gold
Eric S. ...

Date:

11/13/12

only one Custody Seal Perched!

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

| Blanks | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were analytes detected in the method blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were analytes detected in the field blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were analytes detected in the equipment blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| d) Were analytes detected in the trip blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Laboratory Control Sample (LCS) | YES | NO | NA | COMMENTS |
|--|-------------------------------------|--------------------------|--------------------------|-----------------|
| a) Was a LCS analyzed once per SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were the proper analytes included in the LCS? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| c) Was the LCS accuracy criteria met? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Duplicates | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were field duplicates collected (note original and duplicate sample names)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were field dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were lab duplicates analyzed (note original and duplicate samples)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| d) Were lab dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Blind Standards | YES | NO | NA | COMMENTS |
|---|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Was a blind standard used (indicate name, analytes included and concentrations)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Was the %D within control limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Matrix Spike/Matrix Spike Duplicate (MS/MSD) | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|--------------------|
| a) Was MS accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| b) Was MSD accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were MS/MSD precision criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |

Comments/Notes:

Dilutions:

Barium diluted (DF 10) in 2020-BH-08-(3-5) Soil, 2020-BH-07-(0-1) Soil, 2020-BH-06-(9-11) Soil, 2020-BH-03-(1-3) Soil, 2020-BH-02-(0-1) Soil, 2020-BH-01-(5-7) Soil.

MS/MSD qualifications:

20111726-41AMS/20111726-41AMSD: MS/MSD % recovery high for mercury, RPD exceeds limit (35%). MS/MSD performed on unrelated sample, no qualification necessary.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

| Blanks | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were analytes detected in the method blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were analytes detected in the field blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were analytes detected in the equipment blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| d) Were analytes detected in the trip blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |

| Laboratory Control Sample (LCS) | YES | NO | NA | COMMENTS |
|---|-------------------------------------|-------------------------------------|--------------------------|--------------------|
| a) Was a LCS analyzed once per SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were the proper compounds included in the LCS? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| c) Was the LCS accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |

| Duplicates | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were field duplicates collected (note original and duplicate sample names)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were field dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were lab duplicates analyzed (note original and duplicate samples)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| d) Were lab dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Blind Standards | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Was a blind standard used (indicate name, compounds included and concentrations)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Was the %D within control limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Matrix Spike/Matrix Spike Duplicate (MS/MSD) | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|--------------------|
| a) Was MS accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| b) Was MSD accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were MS/MSD precision criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |

| Surrogate Spikes | YES | NO | NA | COMMENTS |
|---|--------------------------|-------------------------------------|--------------------------|--------------------|
| a) Were surrogate recoveries within control limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| b) Were surrogate recoveries not calculated due to dilutions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |

Comments/Notes:

Dilutions:

2020-BH-09-(13-15) Soil: All VOCs diluted, DF 0.731

2020-BH-08-(3-5) Soil: All VOCs diluted, DF 0.693

2020-BH-07-(0-1) Soil: All VOCs diluted, DF 0.813

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes (continued):

(Dilutions continued)

2020-BH-06-(9-11) Soil: All VOCs diluted, DF 0.82

2020-BH-05-(1-3) Soil: All VOCs diluted, DF 0.87

2020-BH-04-(9-11) Soil: All VOCs diluted, DF 0.747

2020-BH-03-(1-3) Soil: All VOCs diluted, DF 0.836

2020-BH-01-(5-7) Soil: All VOCs diluted, DF 0.776

LCS qualifications:

Batch 167928: % recovery high for 2,4-Dimethylphenol, associated with samples -01 through -08. Sample results non-detect, no qualification necessary.

MS/MSD qualifications:

20111360-12A MS: % recovery high for 2,4-Dimethylphenol.

20111360-12A MSD: MSD % recovery high for 2,4-Dimethylphenol; % recovery low for 2,4-Dinitrophenol.

MS/MSD performed on unrelated sample, no qualification necessary.

20111733-01B MS: MS % recovery high for 2,4-Dinitrotoluene, 4-Nitroaniline; % recovery low for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Benzaldehyde, Hexachlorocyclopentadiene

0111733-01B MSD: MSD % recovery low for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Benzaldehyde, Hexachlorocyclopentadiene.

MS/MSD performed on unrelated sample, no qualification necessary.

20111403-09A MS: MS % recovery high for Acetone, Tetrachloroethene; % recovery low for Chloroethane, Vinyl chloride.

20111403-09A MSD: MSD % recovery high for Acetone, Ethylbenzene, Tetrachloroethene, Total Xylenes; % recovery low for Chloroethane, Vinyl chloride; RPD exceeds limit (30%) for Methylene chloride.

Associated with sample 2020-BH-09-(13-15) Soil.

20111403-07A MS: MS % recovery high for 2-Butanone, 2-Hexanone; % recovery low for 1,1,1-Trichloroethane,

1,2,4-Trichlorobenzene, Carbon tetrachloride, cis-1,2-Dichloroethene, Ethylbenzene, Isopropylbenzene,

Trichloroethene, Trichlorofluoromethane.

20111403-07A MSD: MSD % recovery high for 2-Butanone, 2-Hexanone; RPD exceeds limit (30%) for 1,1-Dichloroethene, Bromomethane, Dichlorodifluoromethane, Trichlorofluoromethane.

Associated with sample 2020-BH-07-(0-1) Soil.

Surrogate qualifications:

2020-BH-01-(5-7) Soil: % recovery low for 4-Terphenyl-d14

2020-BH-03-(1-3) Soil: % recovery low for 4-Terphenyl-d14

2020-BH-09-(13-15) Soil: % recovery low for 4-Terphenyl-d14

The case narrative states that these sample results may be biased low, detects in samples were qualified.



25-Nov-2020

Anne Faeth-Boyd
Golder Associates Inc.
13515 Barrett Parkway Drive
Suite 260
Ballwin, MO 63021

Re: **Golder (Phase II Eaton Shenandoah)**

Work Order: **20111402**

Dear Anne,

ALS Environmental received 10 samples on 14-Nov-2020 11:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 81.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Gary Byar

Electronically approved by: Gary Byar

Gary Byar
Project Manager

Report of Laboratory Analysis

Certificate No: IA: 403

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 20111402-01 | 2020-BH-01-GW | Water | | 11/12/2020 18:10 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-02 | 2020-BH-02-GW | Water | | 11/13/2020 12:15 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-03 | 2020-BH-03-GW | Water | | 11/12/2020 11:15 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-04 | 2020-BH-04-GW | Water | | 11/12/2020 13:40 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-05 | 2020-BH-05-GW | Water | | 11/13/2020 08:35 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-06 | 2020-BH-06-GW | Water | | 11/12/2020 14:05 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-07 | 2020-BH-07-GW | Water | | 11/13/2020 07:30 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-08 | 2020-BH-08-GW | Water | | 11/13/2020 11:45 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-09 | 2020-BH-09-GW | Water | | 11/12/2020 18:40 | 11/14/2020 11:00 | <input type="checkbox"/> |
| 20111402-10 | Trip Blank | Water | | 11/13/2020 | 11/14/2020 11:00 | <input type="checkbox"/> |

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-01-GW
 Collection Date: 11/12/2020 06:10 PM

Work Order: 20111402
 Lab ID: 20111402-01
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|---------|------|--------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | | | | | |
| | | | Method:SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | 0.00023 | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 16:51 |
| METALS BY ICP-MS (DISSOLVED) | | | | | | | |
| | | | Method:SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.00088 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| Barium | 0.41 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| Cadmium | 0.00046 | J | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:06 |
| Chromium | | U | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| Lead | | U | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| Selenium | | U | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| Silver | | U | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:38 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EE |
| 1,1'-Biphenyl | | U | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4,5-Trichlorophenol | | U | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4,6-Trichlorophenol | | U | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4-Dichlorophenol | | U | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4-Dimethylphenol | | U | 0.00040 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4-Dinitrophenol | | U | 0.0029 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,4-Dinitrotoluene | | U | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2,6-Dinitrotoluene | | U | 0.00012 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Chloronaphthalene | | U | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Chlorophenol | | U | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Methylnaphthalene | | U | 0.000072 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Methylphenol | | U | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Nitroaniline | | U | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 2-Nitrophenol | | U | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 3&4-Methylphenol | | U | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 3,3'-Dimethylbenzidine | | U | 0.0081 | 0.022 | mg/L | 1 | 11/24/2020 20:05 |
| 3-Nitroaniline | | U | 0.00071 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4,6-Dinitro-2-methylphenol | | U | 0.00030 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Bromophenyl phenyl ether | | U | 0.00037 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Chloro-3-methylphenol | | U | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Chloroaniline | | U | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Chlorophenyl phenyl ether | | U | 0.00034 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Nitroaniline | | U | 0.00063 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| 4-Nitrophenol | | U | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Acenaphthene | | U | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Acenaphthylene | | U | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Acetophenone | | U | 0.00041 | 0.0011 | mg/L | 1 | 11/24/2020 20:05 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-01-GW
Collection Date: 11/12/2020 06:10 PM

Work Order: 20111402
Lab ID: 20111402-01
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|----------------|------|-----------------|---------------|-------------|-----------------|------------------|
| Anthracene | 0.00011 | J | 0.000031 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/24/2020 20:05 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/24/2020 20:05 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/24/2020 20:05 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Fluoranthene | 0.00031 | J | 0.000042 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Fluorene | 0.00024 | J | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Phenanthrene | 0.00091 | J | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Pyrene | 0.00017 | J | 0.000040 | 0.0056 | mg/L | 1 | 11/24/2020 20:05 |
| Surr: 2,4,6-Tribromophenol | 63.0 | | | 27-83 | %REC | 1 | 11/24/2020 20:05 |
| Surr: 2-Fluorobiphenyl | 49.4 | | | 26-79 | %REC | 1 | 11/24/2020 20:05 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-01-GW
 Collection Date: 11/12/2020 06:10 PM

Work Order: 20111402
 Lab ID: 20111402-01
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 36.6 | | | 13-56 | %REC | 1 | 11/24/2020 20:05 |
| Surr: 4-Terphenyl-d14 | 61.5 | | | 43-106 | %REC | 1 | 11/24/2020 20:05 |
| Surr: Nitrobenzene-d5 | 45.7 | | | 29-80 | %REC | 1 | 11/24/2020 20:05 |
| Surr: Phenol-d6 | 26.5 | | | 10-35 | %REC | 1 | 11/24/2020 20:05 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|--------------|--|---------------|--------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 17:01 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 17:01 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Acetone | 0.010 | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 17:01 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 17:01 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-01-GW
Collection Date: 11/12/2020 06:10 PM

Work Order: 20111402
Lab ID: 20111402-01
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | | U | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Methyl acetate | | U | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 17:01 |
| Methyl tert-butyl ether | | U | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Methylcyclohexane | | U | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Methylene chloride | | U | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 17:01 |
| Styrene | | U | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Tetrachloroethene | | U | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Toluene | | U | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| trans-1,2-Dichloroethene | | U | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| trans-1,3-Dichloropropene | | U | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Trichloroethene | | U | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Trichlorofluoromethane | | U | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Vinyl chloride | | U | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 17:01 |
| Xylenes, Total | | U | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 17:01 |
| Surr: 1,2-Dichloroethane-d4 | 112 | | | 75-120 | %REC | 1 | 11/19/2020 17:01 |
| Surr: 4-Bromofluorobenzene | 91.5 | | | 80-110 | %REC | 1 | 11/19/2020 17:01 |
| Surr: Dibromofluoromethane | 108 | | | 85-115 | %REC | 1 | 11/19/2020 17:01 |
| Surr: Toluene-d8 | 99.8 | | | 85-110 | %REC | 1 | 11/19/2020 17:01 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-02-GW
 Collection Date: 11/13/2020 12:15 PM

Work Order: 20111402
 Lab ID: 20111402-02
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 16:53 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.0017 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| Barium | 0.31 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| Cadmium | U | | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:17 |
| Chromium | 0.0027 | J | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| Selenium | 0.00083 | J | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:43 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EEW |
| 1,1'-Biphenyl | U | | 0.00056 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4,5-Trichlorophenol | U | | 0.00023 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4,6-Trichlorophenol | U | | 0.00033 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4-Dichlorophenol | U | | 0.00047 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4-Dimethylphenol | 0.00072 | J | 0.00048 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4-Dinitrophenol | U | | 0.0035 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,4-Dinitrotoluene | U | | 0.00056 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2,6-Dinitrotoluene | U | | 0.00015 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Chloronaphthalene | U | | 0.00010 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Chlorophenol | U | | 0.00031 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Methylnaphthalene | 0.00016 | J | 0.000087 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Methylphenol | U | | 0.00033 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Nitroaniline | U | | 0.00028 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 2-Nitrophenol | U | | 0.00045 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 3&4-Methylphenol | U | | 0.00028 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 3,3'-Dimethylbenzidine | U | | 0.0098 | 0.027 | mg/L | 1 | 11/20/2020 12:54 |
| 3-Nitroaniline | U | | 0.00085 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00036 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Bromophenyl phenyl ether | U | | 0.00044 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Chloro-3-methylphenol | U | | 0.00035 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Chloroaniline | U | | 0.00045 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Chlorophenyl phenyl ether | U | | 0.00041 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Nitroaniline | U | | 0.00076 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| 4-Nitrophenol | U | | 0.00032 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Acenaphthene | U | | 0.00011 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Acenaphthylene | U | | 0.00010 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Acetophenone | U | | 0.00049 | 0.0013 | mg/L | 1 | 11/20/2020 12:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-02-GW
Collection Date: 11/13/2020 12:15 PM

Work Order: 20111402
Lab ID: 20111402-02
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|----------------|----------|-----------------|---------------|-------------|-----------------|------------------|
| Anthracene | U | | 0.000037 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Atrazine | U | | 0.00047 | 0.0013 | mg/L | 1 | 11/20/2020 12:54 |
| Benzaldehyde | U | | 0.00069 | 0.0013 | mg/L | 1 | 11/20/2020 12:54 |
| Benzo(a)anthracene | U | | 0.00013 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Benzo(a)pyrene | U | | 0.000059 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Benzo(b)fluoranthene | U | | 0.000068 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Benzo(g,h,i)perylene | U | | 0.00012 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Benzo(k)fluoranthene | U | | 0.000064 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Bis(2-chloroethoxy)methane | U | | 0.00039 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Bis(2-chloroethyl)ether | U | | 0.00049 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Bis(2-chloroisopropyl)ether | U | | 0.00031 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00053 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Butyl benzyl phthalate | U | | 0.00040 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Caprolactam | U | | 0.0013 | 0.013 | mg/L | 1 | 11/20/2020 12:54 |
| Carbazole | U | | 0.00032 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Chrysene | U | | 0.000064 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Dibenzo(a,h)anthracene | U | | 0.000097 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Dibenzofuran | U | | 0.00031 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Diethyl phthalate | 0.0011 | J | 0.00023 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Dimethyl phthalate | U | | 0.00024 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Di-n-butyl phthalate | U | | 0.00028 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Di-n-octyl phthalate | U | | 0.00071 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Fluoranthene | 0.00023 | J | 0.000051 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Fluorene | 0.00015 | J | 0.000068 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Hexachlorobenzene | U | | 0.00059 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Hexachlorobutadiene | U | | 0.00084 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Hexachlorocyclopentadiene | U | | 0.0015 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Hexachloroethane | U | | 0.00083 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000089 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Isophorone | U | | 0.00045 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Naphthalene | 0.00053 | J | 0.000089 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Nitrobenzene | U | | 0.00035 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| N-Nitrosodi-n-propylamine | U | | 0.00047 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| N-Nitrosodiphenylamine | U | | 0.00065 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Pentachlorophenol | U | | 0.0013 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Phenanthrene | 0.00072 | J | 0.00011 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Phenol | U | | 0.00028 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Pyrene | 0.00017 | J | 0.000048 | 0.0067 | mg/L | 1 | 11/20/2020 12:54 |
| Surr: 2,4,6-Tribromophenol | 76.2 | | | 27-83 | %REC | 1 | 11/20/2020 12:54 |
| Surr: 2-Fluorobiphenyl | 77.8 | | | 26-79 | %REC | 1 | 11/20/2020 12:54 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-02-GW
 Collection Date: 11/13/2020 12:15 PM

Work Order: 20111402
 Lab ID: 20111402-02
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 38.2 | | | 13-56 | %REC | 1 | 11/20/2020 12:54 |
| Surr: 4-Terphenyl-d14 | 87.4 | | | 43-106 | %REC | 1 | 11/20/2020 12:54 |
| Surr: Nitrobenzene-d5 | 73.9 | | | 29-80 | %REC | 1 | 11/20/2020 12:54 |
| Surr: Phenol-d6 | 29.7 | | | 10-35 | %REC | 1 | 11/20/2020 12:54 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 17:18 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 17:18 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Acetone | 0.0062 | J | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 17:18 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| cis-1,2-Dichloroethene | 0.0098 | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 17:18 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-02-GW
Collection Date: 11/13/2020 12:15 PM

Work Order: 20111402
Lab ID: 20111402-02
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|----------------|------|----------------|---------------|-------------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 17:18 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 17:18 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Tetrachloroethene | 0.00061 | J | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Trichloroethene | 0.0093 | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Vinyl chloride | 0.0028 | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 17:18 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 17:18 |
| Surr: 1,2-Dichloroethane-d4 | 111 | | | 75-120 | %REC | 1 | 11/19/2020 17:18 |
| Surr: 4-Bromofluorobenzene | 94.4 | | | 80-110 | %REC | 1 | 11/19/2020 17:18 |
| Surr: Dibromofluoromethane | 107 | | | 85-115 | %REC | 1 | 11/19/2020 17:18 |
| Surr: Toluene-d8 | 97.5 | | | 85-110 | %REC | 1 | 11/19/2020 17:18 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-03-GW
 Collection Date: 11/12/2020 11:15 AM

Work Order: 20111402
 Lab ID: 20111402-03
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:00 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.00088 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| Barium | 0.31 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| Cadmium | U | | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:19 |
| Chromium | U | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| Selenium | U | | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:45 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EE |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Methylnaphthalene | U | | 0.000072 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/24/2020 20:27 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/24/2020 20:27 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-03-GW
Collection Date: 11/12/2020 11:15 AM

Work Order: 20111402
Lab ID: 20111402-03
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|----------|--------------|-------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/24/2020 20:27 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/24/2020 20:27 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/24/2020 20:27 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Fluoranthene | U | | 0.000042 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Fluorene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Phenanthrene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Pyrene | U | | 0.000040 | 0.0056 | mg/L | 1 | 11/24/2020 20:27 |
| Surr: 2,4,6-Tribromophenol | 65.2 | | | 27-83 | %REC | 1 | 11/24/2020 20:27 |
| Surr: 2-Fluorobiphenyl | 55.0 | | | 26-79 | %REC | 1 | 11/24/2020 20:27 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-03-GW
 Collection Date: 11/12/2020 11:15 AM

Work Order: 20111402
 Lab ID: 20111402-03
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 38.7 | | | 13-56 | %REC | 1 | 11/24/2020 20:27 |
| Surr: 4-Terphenyl-d14 | 55.4 | | | 43-106 | %REC | 1 | 11/24/2020 20:27 |
| Surr: Nitrobenzene-d5 | 52.1 | | | 29-80 | %REC | 1 | 11/24/2020 20:27 |
| Surr: Phenol-d6 | 27.1 | | | 10-35 | %REC | 1 | 11/24/2020 20:27 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|--|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,1-Dichloroethane | 0.0015 | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 17:34 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 17:34 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 17:34 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| cis-1,2-Dichloroethene | 0.0084 | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 17:34 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-03-GW
Collection Date: 11/12/2020 11:15 AM

Work Order: 20111402
Lab ID: 20111402-03
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---------------------------------|----------------|----------|----------------|---------------|-------------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 17:34 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 17:34 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| trans-1,2-Dichloroethene | 0.00093 | J | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 17:34 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 17:34 |
| Surr: 1,2-Dichloroethane-d4 | 111 | | | 75-120 | %REC | 1 | 11/19/2020 17:34 |
| Surr: 4-Bromofluorobenzene | 92.6 | | | 80-110 | %REC | 1 | 11/19/2020 17:34 |
| Surr: Dibromofluoromethane | 108 | | | 85-115 | %REC | 1 | 11/19/2020 17:34 |
| Surr: Toluene-d8 | 98.7 | | | 85-110 | %REC | 1 | 11/19/2020 17:34 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-04-GW
Collection Date: 11/12/2020 01:40 PM

Work Order: 20111402
Lab ID: 20111402-04
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:02 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.00087 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| Barium | 0.11 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| Cadmium | U | | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:20 |
| Chromium | 0.0053 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| Selenium | U | | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:47 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EE |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Methylnaphthalene | U | | 0.000072 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/24/2020 20:48 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/24/2020 20:48 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-04-GW
Collection Date: 11/12/2020 01:40 PM

Work Order: 20111402
Lab ID: 20111402-04
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|----------|--------------|-------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/24/2020 20:48 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/24/2020 20:48 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/24/2020 20:48 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Fluoranthene | U | | 0.000042 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Fluorene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Phenanthrene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Pyrene | U | | 0.000040 | 0.0056 | mg/L | 1 | 11/24/2020 20:48 |
| Surr: 2,4,6-Tribromophenol | 65.3 | | | 27-83 | %REC | 1 | 11/24/2020 20:48 |
| Surr: 2-Fluorobiphenyl | 58.6 | | | 26-79 | %REC | 1 | 11/24/2020 20:48 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-04-GW
Collection Date: 11/12/2020 01:40 PM

Work Order: 20111402
Lab ID: 20111402-04
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 36.2 | | | 13-56 | %REC | 1 | 11/24/2020 20:48 |
| Surr: 4-Terphenyl-d14 | 59.3 | | | 43-106 | %REC | 1 | 11/24/2020 20:48 |
| Surr: Nitrobenzene-d5 | 53.3 | | | 29-80 | %REC | 1 | 11/24/2020 20:48 |
| Surr: Phenol-d6 | 26.3 | | | 10-35 | %REC | 1 | 11/24/2020 20:48 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|----------|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,1-Dichloroethane | 0.0039 | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 17:51 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 17:51 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Acetone | 0.0068 | J | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 17:51 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| cis-1,2-Dichloroethene | 0.0055 | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 17:51 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-04-GW
Collection Date: 11/12/2020 01:40 PM

Work Order: 20111402
Lab ID: 20111402-04
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|---------------|------|----------------|---------------|-------------|-----------------|------------------|
| Isopropylbenzene | | U | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Methyl acetate | | U | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 17:51 |
| Methyl tert-butyl ether | | U | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Methylcyclohexane | | U | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Methylene chloride | | U | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 17:51 |
| Styrene | | U | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Tetrachloroethene | 0.0070 | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Toluene | | U | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| trans-1,2-Dichloroethene | | U | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| trans-1,3-Dichloropropene | | U | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Trichloroethene | 0.0091 | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Trichlorofluoromethane | | U | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Vinyl chloride | | U | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 17:51 |
| Xylenes, Total | | U | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 17:51 |
| Surr: 1,2-Dichloroethane-d4 | 112 | | | 75-120 | %REC | 1 | 11/19/2020 17:51 |
| Surr: 4-Bromofluorobenzene | 95.2 | | | 80-110 | %REC | 1 | 11/19/2020 17:51 |
| Surr: Dibromofluoromethane | 109 | | | 85-115 | %REC | 1 | 11/19/2020 17:51 |
| Surr: Toluene-d8 | 102 | | | 85-110 | %REC | 1 | 11/19/2020 17:51 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-05-GW
Collection Date: 11/13/2020 08:35 AM

Work Order: 20111402
Lab ID: 20111402-05
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:03 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.00077 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| Barium | 0.15 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| Cadmium | U | | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:22 |
| Chromium | 0.0028 | J | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| Selenium | U | | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:49 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EEW |
| 1,1'-Biphenyl | U | | 0.00084 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4,5-Trichlorophenol | U | | 0.00034 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4,6-Trichlorophenol | U | | 0.00050 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4-Dichlorophenol | U | | 0.00070 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4-Dimethylphenol | U | | 0.00072 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4-Dinitrophenol | U | | 0.0052 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,4-Dinitrotoluene | U | | 0.00084 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2,6-Dinitrotoluene | U | | 0.00022 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Chloronaphthalene | U | | 0.00015 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Chlorophenol | U | | 0.00046 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Methylnaphthalene | U | | 0.00013 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Methylphenol | U | | 0.00050 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Nitroaniline | U | | 0.00042 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 2-Nitrophenol | U | | 0.00068 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 3&4-Methylphenol | U | | 0.00042 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 3,3'-Dimethylbenzidine | U | | 0.015 | 0.040 | mg/L | 1 | 11/20/2020 13:16 |
| 3-Nitroaniline | U | | 0.0013 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00054 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Bromophenyl phenyl ether | U | | 0.00066 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Chloro-3-methylphenol | U | | 0.00052 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Chloroaniline | U | | 0.00068 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Chlorophenyl phenyl ether | U | | 0.00062 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Nitroaniline | U | | 0.0011 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| 4-Nitrophenol | U | | 0.00048 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Acenaphthene | U | | 0.00016 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Acenaphthylene | U | | 0.00015 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Acetophenone | U | | 0.00074 | 0.0020 | mg/L | 1 | 11/20/2020 13:16 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-05-GW
Collection Date: 11/13/2020 08:35 AM

Work Order: 20111402
Lab ID: 20111402-05
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|---------------|----------|---------------|--------------|-------------|-----------------|------------------|
| Anthracene | U | | 0.000056 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Atrazine | U | | 0.00070 | 0.0020 | mg/L | 1 | 11/20/2020 13:16 |
| Benzaldehyde | U | | 0.0010 | 0.0020 | mg/L | 1 | 11/20/2020 13:16 |
| Benzo(a)anthracene | U | | 0.00020 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Benzo(a)pyrene | U | | 0.000088 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Benzo(b)fluoranthene | U | | 0.00010 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Benzo(g,h,i)perylene | U | | 0.00018 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Benzo(k)fluoranthene | U | | 0.000096 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Bis(2-chloroethoxy)methane | U | | 0.00058 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Bis(2-chloroethyl)ether | U | | 0.00074 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Bis(2-chloroisopropyl)ether | U | | 0.00046 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00080 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Butyl benzyl phthalate | U | | 0.00060 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Caprolactam | 0.0026 | J | 0.0019 | 0.020 | mg/L | 1 | 11/20/2020 13:16 |
| Carbazole | U | | 0.00048 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Chrysene | U | | 0.000096 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Dibenzo(a,h)anthracene | U | | 0.00015 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Dibenzofuran | U | | 0.00046 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Diethyl phthalate | U | | 0.00034 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Dimethyl phthalate | U | | 0.00036 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Di-n-butyl phthalate | U | | 0.00042 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Di-n-octyl phthalate | U | | 0.0011 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Fluoranthene | U | | 0.000076 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Fluorene | U | | 0.00010 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Hexachlorobenzene | U | | 0.00088 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Hexachlorobutadiene | U | | 0.0013 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Hexachlorocyclopentadiene | U | | 0.0022 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Hexachloroethane | U | | 0.0012 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00013 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Isophorone | U | | 0.00068 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Naphthalene | U | | 0.00013 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Nitrobenzene | U | | 0.00052 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| N-Nitrosodi-n-propylamine | U | | 0.00070 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| N-Nitrosodiphenylamine | U | | 0.00098 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Pentachlorophenol | U | | 0.0019 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Phenanthrene | U | | 0.00016 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Phenol | U | | 0.00042 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Pyrene | U | | 0.000072 | 0.010 | mg/L | 1 | 11/20/2020 13:16 |
| Surr: 2,4,6-Tribromophenol | 71.7 | | | 27-83 | %REC | 1 | 11/20/2020 13:16 |
| Surr: 2-Fluorobiphenyl | 53.5 | | | 26-79 | %REC | 1 | 11/20/2020 13:16 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-05-GW
Collection Date: 11/13/2020 08:35 AM

Work Order: 20111402
Lab ID: 20111402-05
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 39.4 | | | 13-56 | %REC | 1 | 11/20/2020 13:16 |
| Surr: 4-Terphenyl-d14 | 72.9 | | | 43-106 | %REC | 1 | 11/20/2020 13:16 |
| Surr: Nitrobenzene-d5 | 48.5 | | | 29-80 | %REC | 1 | 11/20/2020 13:16 |
| Surr: Phenol-d6 | 28.9 | | | 10-35 | %REC | 1 | 11/20/2020 13:16 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---------------|--|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,1-Dichloroethane | 0.0075 | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 18:08 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 18:08 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 18:08 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 18:08 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-05-GW
Collection Date: 11/13/2020 08:35 AM

Work Order: 20111402
Lab ID: 20111402-05
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 18:08 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 18:08 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 18:08 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 18:08 |
| Surr: 1,2-Dichloroethane-d4 | 115 | | | 75-120 | %REC | 1 | 11/19/2020 18:08 |
| Surr: 4-Bromofluorobenzene | 93.8 | | | 80-110 | %REC | 1 | 11/19/2020 18:08 |
| Surr: Dibromofluoromethane | 110 | | | 85-115 | %REC | 1 | 11/19/2020 18:08 |
| Surr: Toluene-d8 | 99.6 | | | 85-110 | %REC | 1 | 11/19/2020 18:08 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-06-GW
 Collection Date: 11/12/2020 02:05 PM

Work Order: 20111402
 Lab ID: 20111402-06
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|---------|------|--------------------|--------------|-------|--------------------------|---------------------|
| MERCURY BY CVA (DISSOLVED) | | | | | | | |
| | | | Method:SW7470A | | | Prep: SW7470 / 11/18/20 | Analyst: MAC |
| Mercury | 0.00020 | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:05 |
| METALS BY ICP-MS (DISSOLVED) | | | | | | | |
| | | | Method:SW6020B | | | Prep: SW3015A / 11/19/20 | Analyst: STP |
| Arsenic | 0.0082 | | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| Barium | 0.40 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| Cadmium | 0.00022 | J | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:27 |
| Chromium | U | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| Selenium | U | | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:51 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| | | | Method:SW846 8270D | | | Prep: SW3510 / 11/19/20 | Analyst: EE |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Methylnaphthalene | U | | 0.000072 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/24/2020 21:10 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/24/2020 21:10 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-06-GW
Collection Date: 11/12/2020 02:05 PM

Work Order: 20111402
Lab ID: 20111402-06
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|----------|--------------|-------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/24/2020 21:10 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/24/2020 21:10 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/24/2020 21:10 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Fluoranthene | U | | 0.000042 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Fluorene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Phenanthrene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Pyrene | U | | 0.000040 | 0.0056 | mg/L | 1 | 11/24/2020 21:10 |
| Surr: 2,4,6-Tribromophenol | 70.8 | | | 27-83 | %REC | 1 | 11/24/2020 21:10 |
| Surr: 2-Fluorobiphenyl | 58.3 | | | 26-79 | %REC | 1 | 11/24/2020 21:10 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-06-GW
Collection Date: 11/12/2020 02:05 PM

Work Order: 20111402
Lab ID: 20111402-06
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 45.2 | | | 13-56 | %REC | 1 | 11/24/2020 21:10 |
| Surr: 4-Terphenyl-d14 | 65.3 | | | 43-106 | %REC | 1 | 11/24/2020 21:10 |
| Surr: Nitrobenzene-d5 | 56.9 | | | 29-80 | %REC | 1 | 11/24/2020 21:10 |
| Surr: Phenol-d6 | 31.5 | | | 10-35 | %REC | 1 | 11/24/2020 21:10 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|----------------|----------|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,1-Dichloroethane | 0.00097 | J | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 18:24 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 18:24 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 18:24 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 18:24 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-06-GW
Collection Date: 11/12/2020 02:05 PM

Work Order: 20111402
Lab ID: 20111402-06
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|------------------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 18:24 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 18:24 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 18:24 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 18:24 |
| <i>Surr: 1,2-Dichloroethane-d4</i> | | 113 | | 75-120 | %REC | 1 | 11/19/2020 18:24 |
| <i>Surr: 4-Bromofluorobenzene</i> | | 94.0 | | 80-110 | %REC | 1 | 11/19/2020 18:24 |
| <i>Surr: Dibromofluoromethane</i> | | 108 | | 85-115 | %REC | 1 | 11/19/2020 18:24 |
| <i>Surr: Toluene-d8</i> | | 99.0 | | 85-110 | %REC | 1 | 11/19/2020 18:24 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-07-GW
 Collection Date: 11/13/2020 07:30 AM

Work Order: 20111402
 Lab ID: 20111402-07
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|---------|------|----------------------------|--------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:07 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.0011 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| Barium | 0.37 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| Cadmium | 0.00022 | J | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:29 |
| Chromium | U | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| Selenium | U | | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:53 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EEW |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Methylnaphthalene | U | | 0.000072 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/20/2020 13:37 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/20/2020 13:37 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-07-GW
Collection Date: 11/13/2020 07:30 AM

Work Order: 20111402
Lab ID: 20111402-07
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|----------|--------------|-------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/20/2020 13:37 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/20/2020 13:37 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/20/2020 13:37 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Fluoranthene | U | | 0.000042 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Fluorene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Phenanthrene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Pyrene | U | | 0.000040 | 0.0056 | mg/L | 1 | 11/20/2020 13:37 |
| Surr: 2,4,6-Tribromophenol | 69.3 | | | 27-83 | %REC | 1 | 11/20/2020 13:37 |
| Surr: 2-Fluorobiphenyl | 56.7 | | | 26-79 | %REC | 1 | 11/20/2020 13:37 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-07-GW
Collection Date: 11/13/2020 07:30 AM

Work Order: 20111402
Lab ID: 20111402-07
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 37.2 | | | 13-56 | %REC | 1 | 11/20/2020 13:37 |
| Surr: 4-Terphenyl-d14 | 75.8 | | | 43-106 | %REC | 1 | 11/20/2020 13:37 |
| Surr: Nitrobenzene-d5 | 46.5 | | | 29-80 | %REC | 1 | 11/20/2020 13:37 |
| Surr: Phenol-d6 | 22.0 | | | 10-35 | %REC | 1 | 11/20/2020 13:37 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: MF

| | | | | | | | |
|--------------------------------|---|--|---------|--------|------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 18:40 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 18:40 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 18:40 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 18:40 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-07-GW
Collection Date: 11/13/2020 07:30 AM

Work Order: 20111402
Lab ID: 20111402-07
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 18:40 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 18:40 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 18:40 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 18:40 |
| Surr: 1,2-Dichloroethane-d4 | 115 | | | 75-120 | %REC | 1 | 11/19/2020 18:40 |
| Surr: 4-Bromofluorobenzene | 94.7 | | | 80-110 | %REC | 1 | 11/19/2020 18:40 |
| Surr: Dibromofluoromethane | 109 | | | 85-115 | %REC | 1 | 11/19/2020 18:40 |
| Surr: Toluene-d8 | 101 | | | 85-110 | %REC | 1 | 11/19/2020 18:40 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-08-GW
 Collection Date: 11/13/2020 11:45 AM

Work Order: 20111402
 Lab ID: 20111402-08
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVAA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:09 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.0024 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| Barium | 0.40 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| Cadmium | 0.00029 | J | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:30 |
| Chromium | 0.0035 | J | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| Lead | 0.0016 | J | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| Selenium | 0.00089 | J | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 00:54 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EEW |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Methylnaphthalene | 0.00012 | J | 0.000072 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/20/2020 13:58 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/20/2020 13:58 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-08-GW
Collection Date: 11/13/2020 11:45 AM

Work Order: 20111402
Lab ID: 20111402-08
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|----------------|------|-----------------|---------------|-------------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/20/2020 13:58 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/20/2020 13:58 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Butyl benzyl phthalate | U | | 0.00033 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/20/2020 13:58 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Diethyl phthalate | 0.00059 | J | 0.00019 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Fluoranthene | 0.00030 | J | 0.000042 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Fluorene | 0.00012 | J | 0.000057 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Naphthalene | 0.00037 | J | 0.000074 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Phenanthrene | 0.00070 | J | 0.000090 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Pyrene | 0.00021 | J | 0.000040 | 0.0056 | mg/L | 1 | 11/20/2020 13:58 |
| Surr: 2,4,6-Tribromophenol | 83.1 | S | | 27-83 | %REC | 1 | 11/20/2020 13:58 |
| Surr: 2-Fluorobiphenyl | 64.4 | | | 26-79 | %REC | 1 | 11/20/2020 13:58 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-08-GW
Collection Date: 11/13/2020 11:45 AM

Work Order: 20111402
Lab ID: 20111402-08
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 43.2 | | | 13-56 | %REC | 1 | 11/20/2020 13:58 |
| Surr: 4-Terphenyl-d14 | 76.9 | | | 43-106 | %REC | 1 | 11/20/2020 13:58 |
| Surr: Nitrobenzene-d5 | 62.5 | | | 29-80 | %REC | 1 | 11/20/2020 13:58 |
| Surr: Phenol-d6 | 28.4 | | | 10-35 | %REC | 1 | 11/20/2020 13:58 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: SJB

| | | | | | | | |
|--------------------------------|----------------|----------|----------------|---------------|-------------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| 2-Butanone | 0.00087 | J | 0.00052 | 0.0050 | mg/L | 1 | 11/20/2020 20:48 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/20/2020 20:48 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/20/2020 20:48 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/20/2020 20:48 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-08-GW
Collection Date: 11/13/2020 11:45 AM

Work Order: 20111402
Lab ID: 20111402-08
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/20/2020 20:48 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/20/2020 20:48 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/20/2020 20:48 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/20/2020 20:48 |
| Surr: 1,2-Dichloroethane-d4 | 93.8 | | | 75-120 | %REC | 1 | 11/20/2020 20:48 |
| Surr: 4-Bromofluorobenzene | 93.1 | | | 80-110 | %REC | 1 | 11/20/2020 20:48 |
| Surr: Dibromofluoromethane | 106 | | | 85-115 | %REC | 1 | 11/20/2020 20:48 |
| Surr: Toluene-d8 | 90.2 | | | 85-110 | %REC | 1 | 11/20/2020 20:48 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-09-GW
Collection Date: 11/12/2020 06:40 PM

Work Order: 20111402
Lab ID: 20111402-09
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|----------------|------|----------------------------|---------------|--------------------------|-----------------|---------------------|
| MERCURY BY CVA (DISSOLVED) | | | Method: SW7470A | | Prep: SW7470 / 11/18/20 | | Analyst: MAC |
| Mercury | U | | 0.00016 | 0.00020 | mg/L | 1 | 11/18/2020 17:10 |
| METALS BY ICP-MS (DISSOLVED) | | | Method: SW6020B | | Prep: SW3015A / 11/19/20 | | Analyst: STP |
| Arsenic | 0.00044 | J | 0.00019 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| Barium | 0.40 | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| Cadmium | 0.00022 | J | 0.00015 | 0.0020 | mg/L | 1 | 11/23/2020 19:32 |
| Chromium | U | | 0.0020 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| Lead | U | | 0.00072 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| Selenium | 0.00066 | J | 0.00048 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| Silver | U | | 0.00084 | 0.0050 | mg/L | 1 | 11/21/2020 01:03 |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | Method: SW846 8270D | | Prep: SW3510 / 11/19/20 | | Analyst: EE |
| 1,1'-Biphenyl | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4,5-Trichlorophenol | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4,6-Trichlorophenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4-Dichlorophenol | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4-Dimethylphenol | U | | 0.00040 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4-Dinitrophenol | U | | 0.0029 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,4-Dinitrotoluene | U | | 0.00047 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2,6-Dinitrotoluene | U | | 0.00012 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Chloronaphthalene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Chlorophenol | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Methylnaphthalene | U | | 0.000072 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Methylphenol | U | | 0.00028 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Nitroaniline | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 2-Nitrophenol | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 3&4-Methylphenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 3,3'-Dimethylbenzidine | U | | 0.0081 | 0.022 | mg/L | 1 | 11/24/2020 21:32 |
| 3-Nitroaniline | U | | 0.00071 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4,6-Dinitro-2-methylphenol | U | | 0.00030 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Bromophenyl phenyl ether | U | | 0.00037 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Chloro-3-methylphenol | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Chloroaniline | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Chlorophenyl phenyl ether | U | | 0.00034 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Nitroaniline | U | | 0.00063 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| 4-Nitrophenol | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Acenaphthene | U | | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Acenaphthylene | U | | 0.000083 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Acetophenone | U | | 0.00041 | 0.0011 | mg/L | 1 | 11/24/2020 21:32 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: 2020-BH-09-GW
 Collection Date: 11/12/2020 06:40 PM

Work Order: 20111402
 Lab ID: 20111402-09
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------|----------------|----------|-----------------|---------------|-------------|-----------------|------------------|
| Anthracene | U | | 0.000031 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Atrazine | U | | 0.00039 | 0.0011 | mg/L | 1 | 11/24/2020 21:32 |
| Benzaldehyde | U | | 0.00058 | 0.0011 | mg/L | 1 | 11/24/2020 21:32 |
| Benzo(a)anthracene | U | | 0.00011 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Benzo(a)pyrene | U | | 0.000049 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Benzo(b)fluoranthene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Benzo(g,h,i)perylene | U | | 0.000099 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Benzo(k)fluoranthene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Bis(2-chloroethoxy)methane | U | | 0.00032 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Bis(2-chloroethyl)ether | U | | 0.00041 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Bis(2-chloroisopropyl)ether | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Bis(2-ethylhexyl)phthalate | U | | 0.00044 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Butyl benzyl phthalate | 0.00078 | J | 0.00033 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Caprolactam | U | | 0.0011 | 0.011 | mg/L | 1 | 11/24/2020 21:32 |
| Carbazole | U | | 0.00027 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Chrysene | U | | 0.000053 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Dibenzo(a,h)anthracene | U | | 0.000081 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Dibenzofuran | U | | 0.00026 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Diethyl phthalate | U | | 0.00019 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Dimethyl phthalate | U | | 0.00020 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Di-n-butyl phthalate | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Di-n-octyl phthalate | U | | 0.00059 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Fluoranthene | 0.00012 | J | 0.000042 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Fluorene | U | | 0.000057 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Hexachlorobenzene | U | | 0.00049 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Hexachlorobutadiene | U | | 0.00070 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Hexachlorocyclopentadiene | U | | 0.0012 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Hexachloroethane | U | | 0.00069 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Isophorone | U | | 0.00038 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Naphthalene | U | | 0.000074 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Nitrobenzene | U | | 0.00029 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| N-Nitrosodi-n-propylamine | U | | 0.00039 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| N-Nitrosodiphenylamine | U | | 0.00054 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Pentachlorophenol | U | | 0.0011 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Phenanthrene | 0.00030 | J | 0.000090 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Phenol | U | | 0.00023 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Pyrene | U | | 0.000040 | 0.0056 | mg/L | 1 | 11/24/2020 21:32 |
| Surr: 2,4,6-Tribromophenol | 60.2 | | | 27-83 | %REC | 1 | 11/24/2020 21:32 |
| Surr: 2-Fluorobiphenyl | 49.4 | | | 26-79 | %REC | 1 | 11/24/2020 21:32 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-09-GW
Collection Date: 11/12/2020 06:40 PM

Work Order: 20111402
Lab ID: 20111402-09
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------|--------|------|-----|--------------|-------|-----------------|------------------|
| Surr: 2-Fluorophenol | 36.6 | | | 13-56 | %REC | 1 | 11/24/2020 21:32 |
| Surr: 4-Terphenyl-d14 | 53.2 | | | 43-106 | %REC | 1 | 11/24/2020 21:32 |
| Surr: Nitrobenzene-d5 | 47.6 | | | 29-80 | %REC | 1 | 11/24/2020 21:32 |
| Surr: Phenol-d6 | 27.3 | | | 10-35 | %REC | 1 | 11/24/2020 21:32 |

VOLATILE ORGANIC COMPOUNDS

Method: SW8260C

Analyst: SJB

| | | | | | | | |
|--------------------------------|---|--|---------|--------|------|---|------------------|
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/20/2020 21:09 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/20/2020 21:09 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/20/2020 21:09 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/20/2020 21:09 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: 2020-BH-09-GW
Collection Date: 11/12/2020 06:40 PM

Work Order: 20111402
Lab ID: 20111402-09
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/20/2020 21:09 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/20/2020 21:09 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/20/2020 21:09 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/20/2020 21:09 |
| Surr: 1,2-Dichloroethane-d4 | 94.9 | | | 75-120 | %REC | 1 | 11/20/2020 21:09 |
| Surr: 4-Bromofluorobenzene | 94.4 | | | 80-110 | %REC | 1 | 11/20/2020 21:09 |
| Surr: Dibromofluoromethane | 106 | | | 85-115 | %REC | 1 | 11/20/2020 21:09 |
| Surr: Toluene-d8 | 89.2 | | | 85-110 | %REC | 1 | 11/20/2020 21:09 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
 Project: Golder (Phase II Eaton Shenandoah)
 Sample ID: Trip Blank
 Collection Date: 11/13/2020

Work Order: 20111402
 Lab ID: 20111402-10
 Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|----------------|--------------|-------------|-----------------|------------------|
| VOLATILE ORGANIC COMPOUNDS | | | Method:SW8260C | | Analyst: MF | | |
| 1,1,1-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,1,2-Trichloroethane | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,1-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,1-Dichloroethene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2,4-Trichlorobenzene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2-Dibromo-3-chloropropane | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2-Dibromoethane | U | | 0.00041 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2-Dichlorobenzene | U | | 0.00032 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2-Dichloroethane | U | | 0.00044 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,2-Dichloropropane | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,3-Dichlorobenzene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 1,4-Dichlorobenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| 2-Butanone | U | | 0.00052 | 0.0050 | mg/L | 1 | 11/19/2020 16:44 |
| 2-Hexanone | U | | 0.00059 | 0.0050 | mg/L | 1 | 11/19/2020 16:44 |
| 4-Methyl-2-pentanone | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Acetone | U | | 0.0062 | 0.010 | mg/L | 1 | 11/19/2020 16:44 |
| Benzene | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Bromodichloromethane | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Bromoform | U | | 0.00056 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Bromomethane | U | | 0.00090 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Carbon disulfide | U | | 0.00049 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Carbon tetrachloride | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Chlorobenzene | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Chloroethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Chloroform | U | | 0.00046 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Chloromethane | U | | 0.00083 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| cis-1,2-Dichloroethene | U | | 0.00042 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| cis-1,3-Dichloropropene | U | | 0.00057 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Cyclohexane | U | | 0.00063 | 0.0020 | mg/L | 1 | 11/19/2020 16:44 |
| Dibromochloromethane | U | | 0.00040 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Dichlorodifluoromethane | U | | 0.00068 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Ethylbenzene | U | | 0.00034 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Isopropylbenzene | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Methyl acetate | U | | 0.00059 | 0.0020 | mg/L | 1 | 11/19/2020 16:44 |
| Methyl tert-butyl ether | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Methylcyclohexane | U | | 0.00035 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Nov-20

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Sample ID: Trip Blank
Collection Date: 11/13/2020

Work Order: 20111402
Lab ID: 20111402-10
Matrix: WATER

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------|--------|------|---------|--------------|-------|-----------------|------------------|
| Methylene chloride | U | | 0.00086 | 0.0050 | mg/L | 1 | 11/19/2020 16:44 |
| Styrene | U | | 0.00033 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Tetrachloroethene | U | | 0.00039 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Toluene | U | | 0.00045 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| trans-1,2-Dichloroethene | U | | 0.00048 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| trans-1,3-Dichloropropene | U | | 0.00038 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Trichloroethene | U | | 0.00043 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Trichlorofluoromethane | U | | 0.00052 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Vinyl chloride | U | | 0.00053 | 0.0010 | mg/L | 1 | 11/19/2020 16:44 |
| Xylenes, Total | U | | 0.00081 | 0.0030 | mg/L | 1 | 11/19/2020 16:44 |
| Surr: 1,2-Dichloroethane-d4 | 109 | | | 75-120 | %REC | 1 | 11/19/2020 16:44 |
| Surr: 4-Bromofluorobenzene | 93.6 | | | 80-110 | %REC | 1 | 11/19/2020 16:44 |
| Surr: Dibromofluoromethane | 108 | | | 85-115 | %REC | 1 | 11/19/2020 16:44 |
| Surr: Toluene-d8 | 100 | | | 85-110 | %REC | 1 | 11/19/2020 16:44 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Case Narrative

Batch 167933 The MS/MSD data for Mercury is not related to this project's sample. No data requires qualification.

Batch 167993 Sample 20111402-02B SVO_8270_W Prep comment: Reduced volume due to limited sample quantity. Client Sample ID: 2020-BH-02-GW

Batch 167993 Sample 20111402-05B SVO_8270_W Prep comment: Reduced volume due to limited sample quantity. Client Sample ID: 2020-BH-05-GW

Batch 167993 Sample 20111402-07B SVO_8270_W Prep comment: Reduced volume due to limited sample quantity. Client Sample ID: 2020-BH-07-GW

Batch 167993 Sample 20111402-08B SVO_8270_W One or more acid surrogate recoveries were above the upper control limits. The acidic sample results may be biased high. 2,4,6-Tribromophenol Client Sample ID: 2020-BH-08-GW

Batch 167993 Sample 20111402-08B SVO_8270_W Prep comment: Reduced volume due to limited sample quantity. Client Sample ID: 2020-BH-08-GW

Batch 167993 Sample SLCSW1-167993 SVO_8270_W The LCSD recovery was below the lower control limit. The sample results may be biased low for this analyte: Phenol; Fluoranthene

Batch 167993 Sample SLCSW1-167993 SVO_8270_W The RPD between the LCS and LCSD was outside of the control limit. The sample results should be considered estimated for this analyte: Fluoranthene

Batch 167993 Sample SLCSW1-167993 SVO_8270_W The LCS recovery was below the lower control limit. The sample results for this batch may be biased low for this analyte: Phenol

Batch 167999 Sample 20111402-01B SVO_8270_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Bis(2-chloroethyl)ether Client Sample ID: 2020-BH-01-GW

Batch 167999 Sample 20111402-03B SVO_8270_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Bis(2-chloroethyl)ether Client Sample ID: 2020-BH-03-

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Case Narrative

GW

Batch 167999 Sample 20111402-04B SVO_8270_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Bis(2-chloroethyl)ether Client Sample ID: 2020-BH-04-GW

Batch 167999 Sample 20111402-06B SVO_8270_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Bis(2-chloroethyl)ether Client Sample ID: 2020-BH-06-GW

Batch 167999 Sample 20111402-09B SVO_8270_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: Bis(2-chloroethyl)ether Client Sample ID: 2020-BH-09-GW

Batch 167999 Sample SLCSW1-167999 SVO_8270_W The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: Bis(2-chloroethyl)ether

Batch 167999 The MS/MSD data for semivolatiles is not related to this project's sample. No data requires qualification.

Batch R303043b Sample 20111402-01A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-01-GW

Batch R303043b Sample 20111402-01A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-01-GW

Batch R303043b Sample 20111402-02A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-02-GW

Batch R303043b Sample 20111402-02A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-02-GW

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Case Narrative

Batch R303043b Sample 20111402-03A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-03-GW

Batch R303043b Sample 20111402-03A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-03-GW

Batch R303043b Sample 20111402-04A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-04-GW

Batch R303043b Sample 20111402-04A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-04-GW

Batch R303043b Sample 20111402-05A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-05-GW

Batch R303043b Sample 20111402-05A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-05-GW

Batch R303043b Sample 20111402-06A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-06-GW

Batch R303043b Sample 20111402-06A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-06-GW

Batch R303043b Sample 20111402-07A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: 2020-BH-07-GW

Batch R303043b Sample 20111402-07A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Case Narrative

non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: 2020-BH-07-GW

Batch R303043b Sample 20111402-10A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: bromomethane Client Sample ID: Trip Blank

Batch R303043b Sample 20111402-10A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: chloroethane, trans-1,3-dichloropropane Client Sample ID: Trip Blank

Batch R303043b Sample VLCSW1-201119 VOC_8260_W The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: chloroethane, dichlorodifluoromethane, styrene

Batch R303043b The MS/MSD data for volatiles is not related to this project's sample. No data requires qualification.

Batch R303160A Sample 20111402-08A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 4-methyl-2-pentanone, 2-hexanone Client Sample ID: 2020-BH-08-GW

Batch R303160A Sample 20111402-08A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: bromomethane, chloroethane Client Sample ID: 2020-BH-08-GW

Batch R303160A Sample 20111402-09A VOC_8260_W The Continuing Calibration Verification did not meet method acceptance criteria for the following analytes, results are to be considered estimate: 4-methyl-2-pentanone, 2-hexanone Client Sample ID: 2020-BH-09-GW

Batch R303160A Sample 20111402-09A VOC_8260_W The Continuing Calibration Verification exceeded acceptance criteria with high bias, however, the sample results were non-detect for the following analytes: bromomethane, chloroethane Client Sample ID: 2020-BH-09-GW

Batch R303160A Sample VLCSW1-201120 VOC_8260_W The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: bromomethane, dichlorodifluoromethane

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
Work Order: 20111402

Case Narrative

Batch R303160A The MS/MSD data for volatiles is not related to this project's sample. No data requires qualification.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **167933** Instrument ID **HG4** Method: **SW7470A**

| | | | | | | | | | | |
|-------------|--------------------------------------|-----|---------|-----------------------|--------------------|------------------------------|---|--------------|-----------|------|
| MBLK | Sample ID: MBLK-167933-167933 | | | | Units: mg/L | | Analysis Date: 11/18/2020 04:30 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6911978 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury U 0.00020

| | | | | | | | | | | |
|------------|-------------------------------------|-----|---------|-----------------------|--------------------|------------------------------|---|--------------|-----------|------|
| LCS | Sample ID: LCS-167933-167933 | | | | Units: mg/L | | Analysis Date: 11/18/2020 04:37 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6911982 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.001965 0.00020 0.002 0 98.2 80-120 0

| | | | | | | | | | | |
|------------|----------------------------------|-----|---------|-----------------------|--------------------|------------------------------|---|--------------|-----------|------|
| MS | Sample ID: 20111406-02AMS | | | | Units: mg/L | | Analysis Date: 11/18/2020 05:14 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912003 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.0561 0.0020 0.02 -0.000825 285 75-125 0 S

| | | | | | | | | | | |
|------------|-----------------------------------|-----|---------|-----------------------|--------------------|------------------------------|---|--------------|-----------|------|
| MSD | Sample ID: 20111406-02AMSD | | | | Units: mg/L | | Analysis Date: 11/18/2020 05:16 PM | | | |
| Client ID: | Run ID: HG4_201118A | | | SeqNo: 6912004 | | Prep Date: 11/18/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Mercury 0.0213 0.0020 0.02 -0.000825 111 75-125 0.0561 89.9 20 R

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111402-01C | 20111402-02C | 20111402-03C |
| 20111402-04C | 20111402-05C | 20111402-06C |
| 20111402-07C | 20111402-08C | 20111402-09C |

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 168017 Instrument ID ICPMS3 Method: SW6020B

| MBLK | | Sample ID: MBLK-168017-168017 | | | Units: mg/L | | Analysis Date: 11/21/2020 12:14 AM | | | |
|------------|--------|-------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: ICPMS3_201120A | | | SeqNo: 6925754 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | U | 0.0050 | | | | | | | | |
| Barium | U | 0.0050 | | | | | | | | |
| Chromium | U | 0.0050 | | | | | | | | |
| Lead | U | 0.0050 | | | | | | | | |
| Selenium | U | 0.0050 | | | | | | | | |
| Silver | U | 0.0050 | | | | | | | | |

| MBLK | | Sample ID: MBLK-168017-168017 | | | Units: mg/L | | Analysis Date: 11/23/2020 06:57 PM | | | |
|------------|--------|-------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: ICPMS3_201123A | | | SeqNo: 6929900 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Cadmium | U | 0.0020 | | | | | | | | |

| LCS | | Sample ID: LCS-168017-168017 | | | Units: mg/L | | Analysis Date: 11/21/2020 12:15 AM | | | |
|------------|---------|------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: ICPMS3_201120A | | | SeqNo: 6925755 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 0.1007 | 0.0050 | 0.1 | 0 | 101 | 80-120 | 0 | | | |
| Barium | 0.1027 | 0.0050 | 0.1 | 0 | 103 | 80-120 | 0 | | | |
| Chromium | 0.1031 | 0.0050 | 0.1 | 0 | 103 | 80-120 | 0 | | | |
| Lead | 0.1027 | 0.0050 | 0.1 | 0 | 103 | 80-120 | 0 | | | |
| Selenium | 0.1047 | 0.0050 | 0.1 | 0 | 105 | 80-120 | 0 | | | |
| Silver | 0.08999 | 0.0050 | 0.1 | 0 | 90 | 80-120 | 0 | | | |

| LCS | | Sample ID: LCS-168017-168017 | | | Units: mg/L | | Analysis Date: 11/23/2020 06:58 PM | | | |
|------------|---------|------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: ICPMS3_201123A | | | SeqNo: 6929901 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Cadmium | 0.09831 | 0.0020 | 0.1 | 0 | 98.3 | 80-120 | 0 | | | |

| MS | | Sample ID: 20111402-01CMS | | | Units: mg/L | | Analysis Date: 11/21/2020 12:40 AM | | | |
|--------------------------|---------|---------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: 2020-BH-01-GW | | Run ID: ICPMS3_201120A | | | SeqNo: 6925769 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 0.09993 | 0.0050 | 0.1 | 0.0008833 | 99 | 75-125 | 0 | | | |
| Barium | 0.5049 | 0.0050 | 0.1 | 0.4111 | 93.8 | 75-125 | 0 | | | O |
| Chromium | 0.1029 | 0.0050 | 0.1 | 0.0006127 | 102 | 75-125 | 0 | | | |
| Lead | 0.1032 | 0.0050 | 0.1 | 0.0003245 | 103 | 75-125 | 0 | | | |
| Selenium | 0.09684 | 0.0050 | 0.1 | 0.0001166 | 96.7 | 75-125 | 0 | | | |
| Silver | 0.0873 | 0.0050 | 0.1 | 0.000011 | 87.3 | 75-125 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 168017 Instrument ID ICPMS3 Method: SW6020B

| MS | | | | Sample ID: 20111402-01CMS | | | Units: mg/L | | Analysis Date: 11/23/2020 07:08 PM | | |
|--------------------------|---------|--------|------------------------|---------------------------|------|----------------|---------------|-----------------------|------------------------------------|-------|--|
| Client ID: 2020-BH-01-GW | | | Run ID: ICPMS3_201123A | | | SeqNo: 6929907 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Cadmium | 0.09804 | 0.0020 | 0.1 | 0.0004554 | 97.6 | 75-125 | | 0 | | | |

| MSD | | | | Sample ID: 20111402-01CMSD | | | Units: mg/L | | Analysis Date: 11/21/2020 12:42 AM | | |
|--------------------------|---------|--------|------------------------|----------------------------|------|----------------|---------------|-----------------------|------------------------------------|-------|--|
| Client ID: 2020-BH-01-GW | | | Run ID: ICPMS3_201120A | | | SeqNo: 6925770 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Arsenic | 0.09789 | 0.0050 | 0.1 | 0.0008833 | 97 | 75-125 | 0.09993 | 2.06 | 20 | | |
| Barium | 0.5025 | 0.0050 | 0.1 | 0.4111 | 91.4 | 75-125 | 0.5049 | 0.461 | 20 | O | |
| Chromium | 0.09991 | 0.0050 | 0.1 | 0.0006127 | 99.3 | 75-125 | 0.1029 | 2.91 | 20 | | |
| Lead | 0.1007 | 0.0050 | 0.1 | 0.0003245 | 100 | 75-125 | 0.1032 | 2.4 | 20 | | |
| Selenium | 0.09551 | 0.0050 | 0.1 | 0.0001166 | 95.4 | 75-125 | 0.09684 | 1.39 | 20 | | |
| Silver | 0.08538 | 0.0050 | 0.1 | 0.000011 | 85.4 | 75-125 | 0.0873 | 2.23 | 20 | | |

| MSD | | | | Sample ID: 20111402-01CMSD | | | Units: mg/L | | Analysis Date: 11/23/2020 07:10 PM | | |
|--------------------------|---------|--------|------------------------|----------------------------|------|----------------|---------------|-----------------------|------------------------------------|-------|--|
| Client ID: 2020-BH-01-GW | | | Run ID: ICPMS3_201123A | | | SeqNo: 6929908 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Cadmium | 0.09546 | 0.0020 | 0.1 | 0.0004554 | 95 | 75-125 | 0.0884 | 7.68 | 20 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111402-01C | 20111402-02C | 20111402-03C |
| 20111402-04C | 20111402-05C | 20111402-06C |
| 20111402-07C | 20111402-08C | 20111402-09C |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167993 Instrument ID SVMS8 Method: SW846 8270D

| MBLK | | Sample ID: SBLKW1-167993-167993 | | | Units: µg/L | | Analysis Date: 11/20/2020 11:50 AM | | | |
|-----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: SVMS8_201120A | | | SeqNo: 6927177 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | U | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | U | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | U | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | U | 5.0 | | | | | | | | |
| 2,4-Dimethylphenol | U | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | U | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | U | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | U | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | U | 5.0 | | | | | | | | |
| 2-Chlorophenol | U | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | U | 5.0 | | | | | | | | |
| 2-Methylphenol | U | 5.0 | | | | | | | | |
| 2-Nitroaniline | U | 5.0 | | | | | | | | |
| 2-Nitrophenol | U | 5.0 | | | | | | | | |
| 3&4-Methylphenol | U | 5.0 | | | | | | | | |
| 3,3'-Dimethylbenzidine | U | 20 | | | | | | | | |
| 3-Nitroaniline | U | 5.0 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | U | 5.0 | | | | | | | | |
| 4-Bromophenyl phenyl ether | U | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | U | 5.0 | | | | | | | | |
| 4-Chloroaniline | U | 5.0 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | U | 5.0 | | | | | | | | |
| 4-Nitroaniline | U | 5.0 | | | | | | | | |
| 4-Nitrophenol | U | 5.0 | | | | | | | | |
| Acenaphthene | U | 5.0 | | | | | | | | |
| Acenaphthylene | U | 5.0 | | | | | | | | |
| Acetophenone | U | 1.0 | | | | | | | | |
| Anthracene | U | 5.0 | | | | | | | | |
| Atrazine | U | 1.0 | | | | | | | | |
| Benzaldehyde | U | 1.0 | | | | | | | | |
| Benzo(a)anthracene | U | 5.0 | | | | | | | | |
| Benzo(a)pyrene | U | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | U | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | U | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | U | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | U | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | U | 5.0 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | U | 5.0 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | U | 5.0 | | | | | | | | |
| Butyl benzyl phthalate | U | 5.0 | | | | | | | | |
| Caprolactam | U | 10 | | | | | | | | |
| Carbazole | U | 5.0 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167993 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | |
|-----------------------------------|----------------------------|----------------------------|----------|-----------|----------|-------------|---------------|----------|
| Chrysene | U | 5.0 | | | | | | |
| Dibenzo(a,h)anthracene | U | 5.0 | | | | | | |
| Dibenzofuran | U | 5.0 | | | | | | |
| Diethyl phthalate | U | 5.0 | | | | | | |
| Dimethyl phthalate | U | 5.0 | | | | | | |
| Di-n-butyl phthalate | U | 5.0 | | | | | | |
| Di-n-octyl phthalate | U | 5.0 | | | | | | |
| Fluoranthene | U | 5.0 | | | | | | |
| Fluorene | U | 5.0 | | | | | | |
| Hexachlorobenzene | U | 5.0 | | | | | | |
| Hexachlorobutadiene | U | 5.0 | | | | | | |
| Hexachlorocyclopentadiene | U | 5.0 | | | | | | |
| Hexachloroethane | U | 5.0 | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 5.0 | | | | | | |
| Isophorone | U | 5.0 | | | | | | |
| Naphthalene | U | 5.0 | | | | | | |
| Nitrobenzene | U | 5.0 | | | | | | |
| N-Nitrosodi-n-propylamine | U | 5.0 | | | | | | |
| N-Nitrosodiphenylamine | U | 5.0 | | | | | | |
| Pentachlorophenol | U | 5.0 | | | | | | |
| Phenanthrene | U | 5.0 | | | | | | |
| Phenol | U | 5.0 | | | | | | |
| Pyrene | U | 5.0 | | | | | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | | <i>28.94</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>57.9</i> | <i>27-83</i> | <i>0</i> |
| <i>Surr: 2-Fluorobiphenyl</i> | | <i>17.04</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>34.1</i> | <i>26-79</i> | <i>0</i> |
| <i>Surr: 2-Fluorophenol</i> | | <i>15.68</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>31.4</i> | <i>13-56</i> | <i>0</i> |
| <i>Surr: 4-Terphenyl-d14</i> | | <i>34.66</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>69.3</i> | <i>43-106</i> | <i>0</i> |
| <i>Surr: Nitrobenzene-d5</i> | | <i>20.17</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>40.3</i> | <i>29-80</i> | <i>0</i> |
| <i>Surr: Phenol-d6</i> | | <i>8.33</i> | <i>0</i> | <i>50</i> | <i>0</i> | <i>16.7</i> | <i>10-35</i> | <i>0</i> |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167993 Instrument ID SVMS8 Method: SW846 8270D

| LCS | | Sample ID: SLCSW1-167993-167993 | | | | Units: µg/L | | Analysis Date: 11/20/2020 12:12 PM | | |
|-----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|-----------------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: SVMS8_201120A | | | SeqNo: 6927178 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 11.07 | 5.0 | 20 | 0 | 55.4 | 40-85 | 0 | | | |
| 2,4,5-Trichlorophenol | 10.67 | 5.0 | 20 | 0 | 53.4 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 11.38 | 5.0 | 20 | 0 | 56.9 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 11.61 | 5.0 | 20 | 0 | 58 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 14.67 | 5.0 | 20 | 0 | 73.4 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 8.54 | 5.0 | 20 | 0 | 42.7 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 12.59 | 5.0 | 20 | 0 | 63 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 13.31 | 5.0 | 20 | 0 | 66.6 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 9.71 | 5.0 | 20 | 0 | 48.6 | 37-84 | 0 | | | |
| 2-Chlorophenol | 12.04 | 5.0 | 20 | 0 | 60.2 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 11.1 | 5.0 | 20 | 0 | 55.5 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.24 | 5.0 | 20 | 0 | 56.2 | 29-76 | 0 | | | |
| 2-Nitroaniline | 11.98 | 5.0 | 20 | 0 | 59.9 | 45-94 | 0 | | | |
| 2-Nitrophenol | 10.43 | 5.0 | 20 | 0 | 52.2 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 10.35 | 5.0 | 20 | 0 | 51.8 | 24-70 | 0 | | | |
| 3-Nitroaniline | 13.27 | 5.0 | 20 | 0 | 66.4 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 13.26 | 5.0 | 20 | 0 | 66.3 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 15.5 | 5.0 | 20 | 0 | 77.5 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 10.98 | 5.0 | 20 | 0 | 54.9 | 41-86 | 0 | | | |
| 4-Chloroaniline | 12.72 | 5.0 | 20 | 0 | 63.6 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 12.52 | 5.0 | 20 | 0 | 62.6 | 49-89 | 0 | | | |
| 4-Nitroaniline | 10.44 | 5.0 | 20 | 0 | 52.2 | 47-98 | 0 | | | |
| 4-Nitrophenol | 5.75 | 5.0 | 20 | 0 | 28.8 | 10-43 | 0 | | | |
| Acenaphthene | 12.08 | 5.0 | 20 | 0 | 60.4 | 42-85 | 0 | | | |
| Acenaphthylene | 12.63 | 5.0 | 20 | 0 | 63.2 | 42-88 | 0 | | | |
| Acetophenone | 13.2 | 1.0 | 20 | 0 | 66 | 39-91 | 0 | | | |
| Anthracene | 16.71 | 5.0 | 20 | 0 | 83.6 | 55-93 | 0 | | | |
| Atrazine | 13.27 | 1.0 | 20 | 0 | 66.4 | 52-100 | 0 | | | |
| Benzaldehyde | 12.12 | 1.0 | 20 | 0 | 60.6 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 14.1 | 5.0 | 20 | 0 | 70.5 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 13.7 | 5.0 | 20 | 0 | 68.5 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 14.64 | 5.0 | 20 | 0 | 73.2 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 13.61 | 5.0 | 20 | 0 | 68 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 13.8 | 5.0 | 20 | 0 | 69 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 11.4 | 5.0 | 20 | 0 | 57 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 12.48 | 5.0 | 20 | 0 | 62.4 | 36-91 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 11.2 | 5.0 | 20 | 0 | 56 | 33-83 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 15.5 | 5.0 | 20 | 0 | 77.5 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 14.13 | 5.0 | 20 | 0 | 70.6 | 49-97 | 0 | | | |
| Carbazole | 16.21 | 5.0 | 20 | 0 | 81 | 59-92 | 0 | | | |
| Chrysene | 13.96 | 5.0 | 20 | 0 | 69.8 | 55-92 | 0 | | | |
| Dibenzo(a,h)anthracene | 13.89 | 5.0 | 20 | 0 | 69.4 | 47-100 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167993 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | |
|-----------------------------------|---------------------|---------------------|----|---|------|--------|---|----|
| Dibenzofuran | 12.29 | 5.0 | 20 | 0 | 61.4 | 44-89 | 0 | |
| Diethyl phthalate | 12.16 | 5.0 | 20 | 0 | 60.8 | 54-95 | 0 | |
| Dimethyl phthalate | 13.65 | 5.0 | 20 | 0 | 68.2 | 51-92 | 0 | |
| Di-n-butyl phthalate | 17.87 | 5.0 | 20 | 0 | 89.4 | 57-98 | 0 | |
| Di-n-octyl phthalate | 17.03 | 5.0 | 20 | 0 | 85.2 | 36-117 | 0 | |
| Fluoranthene | 15.88 | 5.0 | 20 | 0 | 79.4 | 59-93 | 0 | |
| Fluorene | 11.17 | 5.0 | 20 | 0 | 55.8 | 47-91 | 0 | |
| Hexachlorobenzene | 13.85 | 5.0 | 20 | 0 | 69.2 | 53-89 | 0 | |
| Hexachlorobutadiene | 7.83 | 5.0 | 20 | 0 | 39.2 | 11-83 | 0 | |
| Hexachlorocyclopentadiene | 8.69 | 5.0 | 20 | 0 | 43.4 | 14-75 | 0 | |
| Hexachloroethane | 7.12 | 5.0 | 20 | 0 | 35.6 | 10-85 | 0 | |
| Indeno(1,2,3-cd)pyrene | 13.61 | 5.0 | 20 | 0 | 68 | 46-102 | 0 | |
| Isophorone | 10.39 | 5.0 | 20 | 0 | 52 | 42-90 | 0 | |
| Naphthalene | 7.97 | 5.0 | 20 | 0 | 39.8 | 26-78 | 0 | |
| Nitrobenzene | 10.7 | 5.0 | 20 | 0 | 53.5 | 38-86 | 0 | |
| N-Nitrosodi-n-propylamine | 13.98 | 5.0 | 20 | 0 | 69.9 | 39-95 | 0 | |
| N-Nitrosodiphenylamine | 15.48 | 5.0 | 20 | 0 | 77.4 | 47-94 | 0 | |
| Pentachlorophenol | 11.3 | 5.0 | 20 | 0 | 56.5 | 37-94 | 0 | |
| Phenanthrene | 13.58 | 5.0 | 20 | 0 | 67.9 | 51-90 | 0 | |
| Phenol | 1.06 | 5.0 | 20 | 0 | 5.3 | 10-40 | 0 | JS |
| Pyrene | 15.48 | 5.0 | 20 | 0 | 77.4 | 48-98 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 36.82 | 0 | 50 | 0 | 73.6 | 27-83 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 25.01 | 0 | 50 | 0 | 50 | 26-79 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 20.87 | 0 | 50 | 0 | 41.7 | 13-56 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 39.09 | 0 | 50 | 0 | 78.2 | 43-106 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 25.19 | 0 | 50 | 0 | 50.4 | 29-80 | 0 | |
| <i>Surr: Phenol-d6</i> | 13.4 | 0 | 50 | 0 | 26.8 | 10-35 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167993 Instrument ID SVMS8 Method: SW846 8270D

| LCSD | | Sample ID: SLCS DW1-167993-167993 | | | | Units: µg/L | | Analysis Date: 11/20/2020 12:33 PM | | |
|-----------------------------|--------|-----------------------------------|---------|---------------|----------------|---------------|-----------------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: SVMS8_201120A | | | SeqNo: 6927179 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 11.61 | 5.0 | 20 | 0 | 58 | 40-85 | 11.07 | 4.76 | 30 | |
| 2,4,5-Trichlorophenol | 11.98 | 5.0 | 20 | 0 | 59.9 | 47-84 | 10.67 | 11.6 | 30 | |
| 2,4,6-Trichlorophenol | 12.07 | 5.0 | 20 | 0 | 60.4 | 45-83 | 11.38 | 5.88 | 30 | |
| 2,4-Dichlorophenol | 11.5 | 5.0 | 20 | 0 | 57.5 | 39-84 | 11.61 | 0.952 | 30 | |
| 2,4-Dimethylphenol | 12.92 | 5.0 | 20 | 0 | 64.6 | 34-79 | 14.67 | 12.7 | 30 | |
| 2,4-Dinitrophenol | 9.57 | 5.0 | 20 | 0 | 47.8 | 11-117 | 8.54 | 11.4 | 30 | |
| 2,4-Dinitrotoluene | 12.97 | 5.0 | 20 | 0 | 64.8 | 54-93 | 12.59 | 2.97 | 30 | |
| 2,6-Dinitrotoluene | 12.84 | 5.0 | 20 | 0 | 64.2 | 51-90 | 13.31 | 3.59 | 30 | |
| 2-Chloronaphthalene | 10.08 | 5.0 | 20 | 0 | 50.4 | 37-84 | 9.71 | 3.74 | 30 | |
| 2-Chlorophenol | 10.31 | 5.0 | 20 | 0 | 51.6 | 38-83 | 12.04 | 15.5 | 30 | |
| 2-Methylnaphthalene | 10.03 | 5.0 | 20 | 0 | 50.2 | 33-85 | 11.1 | 10.1 | 30 | |
| 2-Methylphenol | 10.18 | 5.0 | 20 | 0 | 50.9 | 29-76 | 11.24 | 9.9 | 30 | |
| 2-Nitroaniline | 11.35 | 5.0 | 20 | 0 | 56.8 | 45-94 | 11.98 | 5.4 | 30 | |
| 2-Nitrophenol | 11.12 | 5.0 | 20 | 0 | 55.6 | 41-84 | 10.43 | 6.4 | 30 | |
| 3&4-Methylphenol | 9.2 | 5.0 | 20 | 0 | 46 | 24-70 | 10.35 | 11.8 | 30 | |
| 3-Nitroaniline | 13.31 | 5.0 | 20 | 0 | 66.6 | 50-93 | 13.27 | 0.301 | 30 | |
| 4,6-Dinitro-2-methylphenol | 12.6 | 5.0 | 20 | 0 | 63 | 23-116 | 13.26 | 5.1 | 30 | |
| 4-Bromophenyl phenyl ether | 13.54 | 5.0 | 20 | 0 | 67.7 | 51-93 | 15.5 | 13.5 | 30 | |
| 4-Chloro-3-methylphenol | 11.96 | 5.0 | 20 | 0 | 59.8 | 41-86 | 10.98 | 8.54 | 30 | |
| 4-Chloroaniline | 13.02 | 5.0 | 20 | 0 | 65.1 | 44-92 | 12.72 | 2.33 | 30 | |
| 4-Chlorophenyl phenyl ether | 13.15 | 5.0 | 20 | 0 | 65.8 | 49-89 | 12.52 | 4.91 | 30 | |
| 4-Nitroaniline | 11.99 | 5.0 | 20 | 0 | 60 | 47-98 | 10.44 | 13.8 | 30 | |
| 4-Nitrophenol | 6.04 | 5.0 | 20 | 0 | 30.2 | 10-43 | 5.75 | 4.92 | 30 | |
| Acenaphthene | 11.36 | 5.0 | 20 | 0 | 56.8 | 42-85 | 12.08 | 6.14 | 30 | |
| Acenaphthylene | 11.74 | 5.0 | 20 | 0 | 58.7 | 42-88 | 12.63 | 7.3 | 30 | |
| Acetophenone | 11.41 | 1.0 | 20 | 0 | 57 | 39-91 | 13.2 | 14.5 | 30 | |
| Anthracene | 12.97 | 5.0 | 20 | 0 | 64.8 | 55-93 | 16.71 | 25.2 | 30 | |
| Atrazine | 14.29 | 1.0 | 20 | 0 | 71.4 | 52-100 | 13.27 | 7.4 | 30 | |
| Benzaldehyde | 10.2 | 1.0 | 20 | 0 | 51 | 42-110 | 12.12 | 17.2 | 30 | |
| Benzo(a)anthracene | 13.17 | 5.0 | 20 | 0 | 65.8 | 56-91 | 14.1 | 6.82 | 30 | |
| Benzo(a)pyrene | 13.03 | 5.0 | 20 | 0 | 65.2 | 55-96 | 13.7 | 5.01 | 30 | |
| Benzo(b)fluoranthene | 13.92 | 5.0 | 20 | 0 | 69.6 | 55-99 | 14.64 | 5.04 | 30 | |
| Benzo(g,h,i)perylene | 14.03 | 5.0 | 20 | 0 | 70.2 | 44-102 | 13.61 | 3.04 | 30 | |
| Benzo(k)fluoranthene | 12.82 | 5.0 | 20 | 0 | 64.1 | 57-96 | 13.8 | 7.36 | 30 | |
| Bis(2-chloroethoxy)methane | 10.87 | 5.0 | 20 | 0 | 54.4 | 39-88 | 11.4 | 4.76 | 30 | |
| Bis(2-chloroethyl)ether | 10.68 | 5.0 | 20 | 0 | 53.4 | 36-91 | 12.48 | 15.5 | 30 | |
| Bis(2-chloroisopropyl)ether | 10.42 | 5.0 | 20 | 0 | 52.1 | 33-83 | 11.2 | 7.22 | 30 | |
| Bis(2-ethylhexyl)phthalate | 15.57 | 5.0 | 20 | 0 | 77.8 | 39-113 | 15.5 | 0.451 | 30 | |
| Butyl benzyl phthalate | 13.76 | 5.0 | 20 | 0 | 68.8 | 49-97 | 14.13 | 2.65 | 30 | |
| Carbazole | 12.72 | 5.0 | 20 | 0 | 63.6 | 59-92 | 16.21 | 24.1 | 30 | |
| Chrysene | 13.26 | 5.0 | 20 | 0 | 66.3 | 55-92 | 13.96 | 5.14 | 30 | |
| Dibenzo(a,h)anthracene | 13.3 | 5.0 | 20 | 0 | 66.5 | 47-100 | 13.89 | 4.34 | 30 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167993 | Instrument ID SVMS8 | | Method: SW846 8270D | | | | | | | |
|-----------------------------------|---------------------|-----|---------------------|---|------|--------|-------|-------|----|----|
| Dibenzofuran | 11.87 | 5.0 | 20 | 0 | 59.4 | 44-89 | 12.29 | 3.48 | 30 | |
| Diethyl phthalate | 13.62 | 5.0 | 20 | 0 | 68.1 | 54-95 | 12.16 | 11.3 | 30 | |
| Dimethyl phthalate | 13.24 | 5.0 | 20 | 0 | 66.2 | 51-92 | 13.65 | 3.05 | 30 | |
| Di-n-butyl phthalate | 14.52 | 5.0 | 20 | 0 | 72.6 | 57-98 | 17.87 | 20.7 | 30 | |
| Di-n-octyl phthalate | 18.13 | 5.0 | 20 | 0 | 90.6 | 36-117 | 17.03 | 6.26 | 30 | |
| Fluoranthene | 11.11 | 5.0 | 20 | 0 | 55.6 | 59-93 | 15.88 | 35.3 | 30 | SR |
| Fluorene | 12.12 | 5.0 | 20 | 0 | 60.6 | 47-91 | 11.17 | 8.16 | 30 | |
| Hexachlorobenzene | 12.69 | 5.0 | 20 | 0 | 63.4 | 53-89 | 13.85 | 8.74 | 30 | |
| Hexachlorobutadiene | 8.06 | 5.0 | 20 | 0 | 40.3 | 11-83 | 7.83 | 2.89 | 30 | |
| Hexachlorocyclopentadiene | 8.73 | 5.0 | 20 | 0 | 43.6 | 14-75 | 8.69 | 0.459 | 30 | |
| Hexachloroethane | 6.95 | 5.0 | 20 | 0 | 34.8 | 10-85 | 7.12 | 2.42 | 30 | |
| Indeno(1,2,3-cd)pyrene | 14.54 | 5.0 | 20 | 0 | 72.7 | 46-102 | 13.61 | 6.61 | 30 | |
| Isophorone | 11.78 | 5.0 | 20 | 0 | 58.9 | 42-90 | 10.39 | 12.5 | 30 | |
| Naphthalene | 7.68 | 5.0 | 20 | 0 | 38.4 | 26-78 | 7.97 | 3.71 | 30 | |
| Nitrobenzene | 10.36 | 5.0 | 20 | 0 | 51.8 | 38-86 | 10.7 | 3.23 | 30 | |
| N-Nitrosodi-n-propylamine | 11.68 | 5.0 | 20 | 0 | 58.4 | 39-95 | 13.98 | 17.9 | 30 | |
| N-Nitrosodiphenylamine | 12.51 | 5.0 | 20 | 0 | 62.6 | 47-94 | 15.48 | 21.2 | 30 | |
| Pentachlorophenol | 11.44 | 5.0 | 20 | 0 | 57.2 | 37-94 | 11.3 | 1.23 | 30 | |
| Phenanthrene | 12.87 | 5.0 | 20 | 0 | 64.4 | 51-90 | 13.58 | 5.37 | 30 | |
| Phenol | 0.9 | 5.0 | 20 | 0 | 4.5 | 10-40 | 1.06 | 0 | 30 | JS |
| Pyrene | 13.1 | 5.0 | 20 | 0 | 65.5 | 48-98 | 15.48 | 16.7 | 30 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 34.83 | 0 | 50 | 0 | 69.7 | 27-83 | 36.82 | 5.55 | 40 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 26.63 | 0 | 50 | 0 | 53.3 | 26-79 | 25.01 | 6.27 | 40 | |
| <i>Surr: 2-Fluorophenol</i> | 17.31 | 0 | 50 | 0 | 34.6 | 13-56 | 20.87 | 18.6 | 40 | |
| <i>Surr: 4-Terphenyl-d14</i> | 33.82 | 0 | 50 | 0 | 67.6 | 43-106 | 39.09 | 14.5 | 40 | |
| <i>Surr: Nitrobenzene-d5</i> | 26.1 | 0 | 50 | 0 | 52.2 | 29-80 | 25.19 | 3.55 | 40 | |
| <i>Surr: Phenol-d6</i> | 10.5 | 0 | 50 | 0 | 21 | 10-35 | 13.4 | 24.3 | 40 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111402-02B | 20111402-05B | 20111402-07B |
| 20111402-08B | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167999 Instrument ID SVMS8 Method: SW846 8270D

| MBLK | | Sample ID: SBLKW1-167999-167999 | | | Units: µg/L | | Analysis Date: 11/24/2020 05:13 PM | | | |
|-----------------------------|--------|---------------------------------|---------|---------------|----------------|---------------|------------------------------------|------|-----------|------|
| Client ID: | | Run ID: SVMS8_201124A | | | SeqNo: 6933541 | | Prep Date: 11/19/2020 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | U | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | U | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | U | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | U | 5.0 | | | | | | | | |
| 2,4-Dimethylphenol | U | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | U | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | U | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | U | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | U | 5.0 | | | | | | | | |
| 2-Chlorophenol | U | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | U | 5.0 | | | | | | | | |
| 2-Methylphenol | U | 5.0 | | | | | | | | |
| 2-Nitroaniline | U | 5.0 | | | | | | | | |
| 2-Nitrophenol | U | 5.0 | | | | | | | | |
| 3&4-Methylphenol | U | 5.0 | | | | | | | | |
| 3,3'-Dimethylbenzidine | U | 20 | | | | | | | | |
| 3-Nitroaniline | U | 5.0 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | U | 5.0 | | | | | | | | |
| 4-Bromophenyl phenyl ether | U | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | U | 5.0 | | | | | | | | |
| 4-Chloroaniline | U | 5.0 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | U | 5.0 | | | | | | | | |
| 4-Nitroaniline | U | 5.0 | | | | | | | | |
| 4-Nitrophenol | U | 5.0 | | | | | | | | |
| Acenaphthene | U | 5.0 | | | | | | | | |
| Acenaphthylene | U | 5.0 | | | | | | | | |
| Acetophenone | U | 1.0 | | | | | | | | |
| Anthracene | U | 5.0 | | | | | | | | |
| Atrazine | U | 1.0 | | | | | | | | |
| Benzaldehyde | U | 1.0 | | | | | | | | |
| Benzo(a)anthracene | U | 5.0 | | | | | | | | |
| Benzo(a)pyrene | U | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | U | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | U | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | U | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | U | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | U | 5.0 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | U | 5.0 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | U | 5.0 | | | | | | | | |
| Butyl benzyl phthalate | U | 5.0 | | | | | | | | |
| Caprolactam | U | 10 | | | | | | | | |
| Carbazole | U | 5.0 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167999 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | |
|-----------------------------------|---------------------|---------------------|---|----|---|------|--------|---|
| Chrysene | U | 5.0 | | | | | | |
| Dibenzo(a,h)anthracene | U | 5.0 | | | | | | |
| Dibenzofuran | U | 5.0 | | | | | | |
| Diethyl phthalate | U | 5.0 | | | | | | |
| Dimethyl phthalate | U | 5.0 | | | | | | |
| Di-n-butyl phthalate | U | 5.0 | | | | | | |
| Di-n-octyl phthalate | U | 5.0 | | | | | | |
| Fluoranthene | U | 5.0 | | | | | | |
| Fluorene | U | 5.0 | | | | | | |
| Hexachlorobenzene | U | 5.0 | | | | | | |
| Hexachlorobutadiene | U | 5.0 | | | | | | |
| Hexachlorocyclopentadiene | U | 5.0 | | | | | | |
| Hexachloroethane | U | 5.0 | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 5.0 | | | | | | |
| Isophorone | U | 5.0 | | | | | | |
| Naphthalene | U | 5.0 | | | | | | |
| Nitrobenzene | U | 5.0 | | | | | | |
| N-Nitrosodi-n-propylamine | U | 5.0 | | | | | | |
| N-Nitrosodiphenylamine | U | 5.0 | | | | | | |
| Pentachlorophenol | U | 5.0 | | | | | | |
| Phenanthrene | U | 5.0 | | | | | | |
| Phenol | U | 5.0 | | | | | | |
| Pyrene | U | 5.0 | | | | | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | | 30.61 | 0 | 50 | 0 | 61.2 | 27-83 | 0 |
| <i>Surr: 2-Fluorobiphenyl</i> | | 25.31 | 0 | 50 | 0 | 50.6 | 26-79 | 0 |
| <i>Surr: 2-Fluorophenol</i> | | 20.62 | 0 | 50 | 0 | 41.2 | 13-56 | 0 |
| <i>Surr: 4-Terphenyl-d14</i> | | 30.56 | 0 | 50 | 0 | 61.1 | 43-106 | 0 |
| <i>Surr: Nitrobenzene-d5</i> | | 23.55 | 0 | 50 | 0 | 47.1 | 29-80 | 0 |
| <i>Surr: Phenol-d6</i> | | 13.47 | 0 | 50 | 0 | 26.9 | 10-35 | 0 |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167999 Instrument ID SVMS8 Method: SW846 8270D

| LCS | | Sample ID: SLCSW1-167999-167999 | | | | Units: µg/L | | Analysis Date: 11/24/2020 05:34 PM | | |
|-----------------------------|--------|---------------------------------|---------|----------------|------|-----------------------|---------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: SVMS8_201124A | | SeqNo: 6933542 | | Prep Date: 11/19/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 10.26 | 5.0 | 20 | 0 | 51.3 | 40-85 | 0 | | | |
| 2,4,5-Trichlorophenol | 13.28 | 5.0 | 20 | 0 | 66.4 | 47-84 | 0 | | | |
| 2,4,6-Trichlorophenol | 12.91 | 5.0 | 20 | 0 | 64.6 | 45-83 | 0 | | | |
| 2,4-Dichlorophenol | 12.55 | 5.0 | 20 | 0 | 62.8 | 39-84 | 0 | | | |
| 2,4-Dimethylphenol | 9.89 | 5.0 | 20 | 0 | 49.4 | 34-79 | 0 | | | |
| 2,4-Dinitrophenol | 10.02 | 5.0 | 20 | 0 | 50.1 | 11-117 | 0 | | | |
| 2,4-Dinitrotoluene | 14.5 | 5.0 | 20 | 0 | 72.5 | 54-93 | 0 | | | |
| 2,6-Dinitrotoluene | 13.83 | 5.0 | 20 | 0 | 69.2 | 51-90 | 0 | | | |
| 2-Chloronaphthalene | 10.13 | 5.0 | 20 | 0 | 50.6 | 37-84 | 0 | | | |
| 2-Chlorophenol | 12.12 | 5.0 | 20 | 0 | 60.6 | 38-83 | 0 | | | |
| 2-Methylnaphthalene | 8.47 | 5.0 | 20 | 0 | 42.4 | 33-85 | 0 | | | |
| 2-Methylphenol | 11.29 | 5.0 | 20 | 0 | 56.4 | 29-76 | 0 | | | |
| 2-Nitroaniline | 13.66 | 5.0 | 20 | 0 | 68.3 | 45-94 | 0 | | | |
| 2-Nitrophenol | 11.89 | 5.0 | 20 | 0 | 59.4 | 41-84 | 0 | | | |
| 3&4-Methylphenol | 10.57 | 5.0 | 20 | 0 | 52.8 | 24-70 | 0 | | | |
| 3-Nitroaniline | 15.26 | 5.0 | 20 | 0 | 76.3 | 50-93 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 13.88 | 5.0 | 20 | 0 | 69.4 | 23-116 | 0 | | | |
| 4-Bromophenyl phenyl ether | 14.01 | 5.0 | 20 | 0 | 70 | 51-93 | 0 | | | |
| 4-Chloro-3-methylphenol | 13.21 | 5.0 | 20 | 0 | 66 | 41-86 | 0 | | | |
| 4-Chloroaniline | 14.17 | 5.0 | 20 | 0 | 70.8 | 44-92 | 0 | | | |
| 4-Chlorophenyl phenyl ether | 12.95 | 5.0 | 20 | 0 | 64.8 | 49-89 | 0 | | | |
| 4-Nitroaniline | 14.95 | 5.0 | 20 | 0 | 74.8 | 47-98 | 0 | | | |
| 4-Nitrophenol | 6.51 | 5.0 | 20 | 0 | 32.6 | 10-43 | 0 | | | |
| Acenaphthene | 12 | 5.0 | 20 | 0 | 60 | 42-85 | 0 | | | |
| Acenaphthylene | 11.76 | 5.0 | 20 | 0 | 58.8 | 42-88 | 0 | | | |
| Acetophenone | 12.16 | 1.0 | 20 | 0 | 60.8 | 39-91 | 0 | | | |
| Anthracene | 14.9 | 5.0 | 20 | 0 | 74.5 | 55-93 | 0 | | | |
| Atrazine | 14.84 | 1.0 | 20 | 0 | 74.2 | 52-100 | 0 | | | |
| Benzaldehyde | 11.37 | 1.0 | 20 | 0 | 56.8 | 42-110 | 0 | | | |
| Benzo(a)anthracene | 15 | 5.0 | 20 | 0 | 75 | 56-91 | 0 | | | |
| Benzo(a)pyrene | 14.69 | 5.0 | 20 | 0 | 73.4 | 55-96 | 0 | | | |
| Benzo(b)fluoranthene | 13.16 | 5.0 | 20 | 0 | 65.8 | 55-99 | 0 | | | |
| Benzo(g,h,i)perylene | 10.86 | 5.0 | 20 | 0 | 54.3 | 44-102 | 0 | | | |
| Benzo(k)fluoranthene | 12.96 | 5.0 | 20 | 0 | 64.8 | 57-96 | 0 | | | |
| Bis(2-chloroethoxy)methane | 12.58 | 5.0 | 20 | 0 | 62.9 | 39-88 | 0 | | | |
| Bis(2-chloroethyl)ether | 41 | 5.0 | 20 | 0 | 205 | 36-91 | 0 | | | S |
| Bis(2-chloroisopropyl)ether | 11.26 | 5.0 | 20 | 0 | 56.3 | 33-83 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 15.17 | 5.0 | 20 | 0 | 75.8 | 39-113 | 0 | | | |
| Butyl benzyl phthalate | 13.5 | 5.0 | 20 | 0 | 67.5 | 49-97 | 0 | | | |
| Carbazole | 15.79 | 5.0 | 20 | 0 | 79 | 59-92 | 0 | | | |
| Chrysene | 15.15 | 5.0 | 20 | 0 | 75.8 | 55-92 | 0 | | | |
| Dibenzo(a,h)anthracene | 11.95 | 5.0 | 20 | 0 | 59.8 | 47-100 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167999 | Instrument ID SVMS8 | | Method: SW846 8270D | | | | | |
|-----------------------------------|---------------------|-----|---------------------|---|------|--------|---|---|
| Dibenzofuran | 12.58 | 5.0 | 20 | 0 | 62.9 | 44-89 | 0 | |
| Diethyl phthalate | 14.45 | 5.0 | 20 | 0 | 72.2 | 54-95 | 0 | |
| Dimethyl phthalate | 14.19 | 5.0 | 20 | 0 | 71 | 51-92 | 0 | |
| Di-n-butyl phthalate | 15.17 | 5.0 | 20 | 0 | 75.8 | 57-98 | 0 | |
| Di-n-octyl phthalate | 13.26 | 5.0 | 20 | 0 | 66.3 | 36-117 | 0 | |
| Fluoranthene | 15.01 | 5.0 | 20 | 0 | 75 | 59-93 | 0 | |
| Fluorene | 13.04 | 5.0 | 20 | 0 | 65.2 | 47-91 | 0 | |
| Hexachlorobenzene | 14.47 | 5.0 | 20 | 0 | 72.4 | 53-89 | 0 | |
| Hexachlorobutadiene | 3.5 | 5.0 | 20 | 0 | 17.5 | 11-83 | 0 | J |
| Hexachlorocyclopentadiene | 4.18 | 5.0 | 20 | 0 | 20.9 | 14-75 | 0 | J |
| Hexachloroethane | 3.24 | 5.0 | 20 | 0 | 16.2 | 10-85 | 0 | J |
| Indeno(1,2,3-cd)pyrene | 11.71 | 5.0 | 20 | 0 | 58.6 | 46-102 | 0 | |
| Isophorone | 12.7 | 5.0 | 20 | 0 | 63.5 | 42-90 | 0 | |
| Naphthalene | 7.94 | 5.0 | 20 | 0 | 39.7 | 26-78 | 0 | |
| Nitrobenzene | 11.32 | 5.0 | 20 | 0 | 56.6 | 38-86 | 0 | |
| N-Nitrosodi-n-propylamine | 12.8 | 5.0 | 20 | 0 | 64 | 39-95 | 0 | |
| N-Nitrosodiphenylamine | 13.62 | 5.0 | 20 | 0 | 68.1 | 47-94 | 0 | |
| Pentachlorophenol | 9.54 | 5.0 | 20 | 0 | 47.7 | 37-94 | 0 | |
| Phenanthrene | 14.7 | 5.0 | 20 | 0 | 73.5 | 51-90 | 0 | |
| Phenol | 5.27 | 5.0 | 20 | 0 | 26.4 | 10-40 | 0 | |
| Pyrene | 13.34 | 5.0 | 20 | 0 | 66.7 | 48-98 | 0 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 34.08 | 0 | 50 | 0 | 68.2 | 27-83 | 0 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 28.1 | 0 | 50 | 0 | 56.2 | 26-79 | 0 | |
| <i>Surr: 2-Fluorophenol</i> | 19.29 | 0 | 50 | 0 | 38.6 | 13-56 | 0 | |
| <i>Surr: 4-Terphenyl-d14</i> | 33.39 | 0 | 50 | 0 | 66.8 | 43-106 | 0 | |
| <i>Surr: Nitrobenzene-d5</i> | 28.35 | 0 | 50 | 0 | 56.7 | 29-80 | 0 | |
| <i>Surr: Phenol-d6</i> | 13.3 | 0 | 50 | 0 | 26.6 | 10-35 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167999 Instrument ID SVMS8 Method: SW846 8270D

| MS | | Sample ID: 20111358-03B MS | | | | Units: µg/L | | Analysis Date: 11/24/2020 07:00 PM | | |
|-----------------------------|--------|----------------------------|---------|----------------|------|-----------------------|---------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: SVMS8_201124A | | SeqNo: 6933546 | | Prep Date: 11/19/2020 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1'-Biphenyl | 35.17 | 5.0 | 20 | 25.86 | 46.6 | 40-85 | | 0 | | |
| 2,4,5-Trichlorophenol | 15.1 | 5.0 | 20 | 0 | 75.5 | 47-84 | | 0 | | |
| 2,4,6-Trichlorophenol | 14.92 | 5.0 | 20 | 0 | 74.6 | 45-83 | | 0 | | |
| 2,4-Dichlorophenol | 13.19 | 5.0 | 20 | 0 | 66 | 39-84 | | 0 | | |
| 2,4-Dimethylphenol | 14 | 5.0 | 20 | 0 | 70 | 34-79 | | 0 | | |
| 2,4-Dinitrophenol | 15.97 | 5.0 | 20 | 0 | 79.8 | 11-117 | | 0 | | |
| 2,4-Dinitrotoluene | 16.25 | 5.0 | 20 | 0 | 81.2 | 54-93 | | 0 | | |
| 2,6-Dinitrotoluene | 14.63 | 5.0 | 20 | 0 | 73.2 | 51-90 | | 0 | | |
| 2-Chloronaphthalene | 12.48 | 5.0 | 20 | 0 | 62.4 | 37-84 | | 0 | | |
| 2-Chlorophenol | 11.77 | 5.0 | 20 | 0 | 58.8 | 38-83 | | 0 | | |
| 2-Methylnaphthalene | 116.9 | 5.0 | 20 | 92.9 | 120 | 33-85 | | 0 | | SEO |
| 2-Methylphenol | 11.97 | 5.0 | 20 | 0 | 59.8 | 29-76 | | 0 | | |
| 2-Nitroaniline | 15.77 | 5.0 | 20 | 0 | 78.8 | 45-94 | | 0 | | |
| 2-Nitrophenol | 12.32 | 5.0 | 20 | 0 | 61.6 | 41-84 | | 0 | | |
| 3&4-Methylphenol | 11.83 | 5.0 | 20 | 0 | 59.2 | 24-70 | | 0 | | |
| 3-Nitroaniline | 16.33 | 5.0 | 20 | 0 | 81.6 | 50-93 | | 0 | | |
| 4,6-Dinitro-2-methylphenol | 16.24 | 5.0 | 20 | 0 | 81.2 | 23-116 | | 0 | | |
| 4-Bromophenyl phenyl ether | 16.52 | 5.0 | 20 | 0 | 82.6 | 51-93 | | 0 | | |
| 4-Chloro-3-methylphenol | 14.98 | 5.0 | 20 | 0 | 74.9 | 41-86 | | 0 | | |
| 4-Chloroaniline | 13.39 | 5.0 | 20 | 0 | 67 | 44-92 | | 0 | | |
| 4-Chlorophenyl phenyl ether | 13.39 | 5.0 | 20 | 0 | 67 | 49-89 | | 0 | | |
| 4-Nitroaniline | 14.3 | 5.0 | 20 | 0 | 71.5 | 47-98 | | 0 | | |
| 4-Nitrophenol | 10.73 | 5.0 | 20 | 0 | 53.6 | 10-43 | | 0 | | S |
| Acenaphthene | 60.77 | 5.0 | 20 | 47.04 | 68.6 | 42-85 | | 0 | | E |
| Acenaphthylene | 18.99 | 5.0 | 20 | 5.97 | 65.1 | 42-88 | | 0 | | |
| Acetophenone | 13.08 | 1.0 | 20 | 0 | 65.4 | 39-91 | | 0 | | |
| Anthracene | 16.58 | 5.0 | 20 | 0.61 | 79.8 | 55-93 | | 0 | | |
| Atrazine | 13.46 | 1.0 | 20 | 0 | 67.3 | 52-100 | | 0 | | |
| Benzaldehyde | 12.79 | 1.0 | 20 | 0 | 64 | 42-110 | | 0 | | |
| Benzo(a)anthracene | 15.83 | 5.0 | 20 | 0 | 79.2 | 56-91 | | 0 | | |
| Benzo(a)pyrene | 16.47 | 5.0 | 20 | 0 | 82.4 | 55-96 | | 0 | | |
| Benzo(b)fluoranthene | 16.5 | 5.0 | 20 | 0 | 82.5 | 55-99 | | 0 | | |
| Benzo(g,h,i)perylene | 16.84 | 5.0 | 20 | 0 | 84.2 | 44-102 | | 0 | | |
| Benzo(k)fluoranthene | 17.04 | 5.0 | 20 | 0 | 85.2 | 57-96 | | 0 | | |
| Bis(2-chloroethoxy)methane | 13.24 | 5.0 | 20 | 0 | 66.2 | 39-88 | | 0 | | |
| Bis(2-chloroethyl)ether | 41.56 | 5.0 | 20 | 0 | 208 | 36-91 | | 0 | | S |
| Bis(2-chloroisopropyl)ether | 11.57 | 5.0 | 20 | 0 | 57.8 | 33-83 | | 0 | | |
| Bis(2-ethylhexyl)phthalate | 17.97 | 5.0 | 20 | 0 | 89.8 | 39-113 | | 0 | | |
| Butyl benzyl phthalate | 11.87 | 5.0 | 20 | 0 | 59.4 | 49-97 | | 0 | | |
| Carbazole | 19.67 | 5.0 | 20 | 2.83 | 84.2 | 59-92 | | 0 | | |
| Chrysene | 16.63 | 5.0 | 20 | 0 | 83.2 | 55-92 | | 0 | | |
| Dibenzo(a,h)anthracene | 15.8 | 5.0 | 20 | 0 | 79 | 47-100 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167999 | Instrument ID SVMS8 | Method: SW846 8270D | | | | | | | |
|-----------------------------------|---------------------|---------------------|----|-------|-------|--------|---|-----|--|
| Dibenzofuran | 48.11 | 5.0 | 20 | 43.06 | 25.2 | 44-89 | 0 | S | |
| Diethyl phthalate | 15.2 | 5.0 | 20 | 0 | 76 | 54-95 | 0 | | |
| Dimethyl phthalate | 14.61 | 5.0 | 20 | 0 | 73 | 51-92 | 0 | | |
| Di-n-butyl phthalate | 18.09 | 5.0 | 20 | 0 | 90.4 | 57-98 | 0 | | |
| Di-n-octyl phthalate | 17.59 | 5.0 | 20 | 0 | 88 | 36-117 | 0 | | |
| Fluoranthene | 18.72 | 5.0 | 20 | 0.11 | 93 | 59-93 | 0 | S | |
| Fluorene | 35.56 | 5.0 | 20 | 28.31 | 36.2 | 47-91 | 0 | S | |
| Hexachlorobenzene | 16.88 | 5.0 | 20 | 0 | 84.4 | 53-89 | 0 | | |
| Hexachlorobutadiene | 8.57 | 5.0 | 20 | 0 | 42.8 | 11-83 | 0 | | |
| Hexachlorocyclopentadiene | 7.44 | 5.0 | 20 | 0 | 37.2 | 14-75 | 0 | | |
| Hexachloroethane | 8.5 | 5.0 | 20 | 0 | 42.5 | 10-85 | 0 | | |
| Indeno(1,2,3-cd)pyrene | 14.68 | 5.0 | 20 | 0 | 73.4 | 46-102 | 0 | | |
| Isophorone | 13.56 | 5.0 | 20 | 0 | 67.8 | 42-90 | 0 | | |
| Naphthalene | 249.9 | 5.0 | 20 | 251.5 | -7.75 | 26-78 | 0 | SEO | |
| Nitrobenzene | 12.13 | 5.0 | 20 | 0 | 60.6 | 38-86 | 0 | | |
| N-Nitrosodi-n-propylamine | 12.92 | 5.0 | 20 | 0 | 64.6 | 39-95 | 0 | | |
| N-Nitrosodiphenylamine | 13.97 | 5.0 | 20 | 0 | 69.8 | 47-94 | 0 | | |
| Pentachlorophenol | 19.31 | 5.0 | 20 | 0 | 96.6 | 37-94 | 0 | S | |
| Phenanthrene | 25.74 | 5.0 | 20 | 10.16 | 77.9 | 51-90 | 0 | | |
| Phenol | 6.58 | 5.0 | 20 | 0 | 32.9 | 10-40 | 0 | | |
| Pyrene | 12.31 | 5.0 | 20 | 0 | 61.6 | 48-98 | 0 | | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 35.63 | 0 | 50 | 0 | 71.3 | 27-83 | 0 | | |
| <i>Surr: 2-Fluorobiphenyl</i> | 32.09 | 0 | 50 | 0 | 64.2 | 26-79 | 0 | | |
| <i>Surr: 2-Fluorophenol</i> | 20.13 | 0 | 50 | 0 | 40.3 | 13-56 | 0 | | |
| <i>Surr: 4-Terphenyl-d14</i> | 28.07 | 0 | 50 | 0 | 56.1 | 43-106 | 0 | | |
| <i>Surr: Nitrobenzene-d5</i> | 30.85 | 0 | 50 | 0 | 61.7 | 29-80 | 0 | | |
| <i>Surr: Phenol-d6</i> | 15.33 | 0 | 50 | 0 | 30.7 | 10-35 | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: 167999 Instrument ID SVMS8 Method: SW846 8270D

| MSD | | | | Sample ID: 20111358-03B MSD | | | Units: µg/L | | Analysis Date: 11/24/2020 07:22 PM | | |
|-----------------------------|--------|-----------------------|---------|-----------------------------|------|-----------------------|---------------|-------|------------------------------------|------|--|
| Client ID: | | Run ID: SVMS8_201124A | | SeqNo: 6933547 | | Prep Date: 11/19/2020 | | DF: 1 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1'-Biphenyl | 33.46 | 5.0 | 20 | 25.86 | 38 | 40-85 | 35.17 | 4.98 | 30 | S | |
| 2,4,5-Trichlorophenol | 14.02 | 5.0 | 20 | 0 | 70.1 | 47-84 | 15.1 | 7.42 | 30 | | |
| 2,4,6-Trichlorophenol | 14.03 | 5.0 | 20 | 0 | 70.2 | 45-83 | 14.92 | 6.15 | 30 | | |
| 2,4-Dichlorophenol | 12.5 | 5.0 | 20 | 0 | 62.5 | 39-84 | 13.19 | 5.37 | 30 | | |
| 2,4-Dimethylphenol | 13.14 | 5.0 | 20 | 0 | 65.7 | 34-79 | 14 | 6.34 | 30 | | |
| 2,4-Dinitrophenol | 14.52 | 5.0 | 20 | 0 | 72.6 | 11-117 | 15.97 | 9.51 | 30 | | |
| 2,4-Dinitrotoluene | 14.87 | 5.0 | 20 | 0 | 74.4 | 54-93 | 16.25 | 8.87 | 30 | | |
| 2,6-Dinitrotoluene | 13.75 | 5.0 | 20 | 0 | 68.8 | 51-90 | 14.63 | 6.2 | 30 | | |
| 2-Chloronaphthalene | 12.84 | 5.0 | 20 | 0 | 64.2 | 37-84 | 12.48 | 2.84 | 30 | | |
| 2-Chlorophenol | 11.21 | 5.0 | 20 | 0 | 56 | 38-83 | 11.77 | 4.87 | 30 | | |
| 2-Methylnaphthalene | 108.5 | 5.0 | 20 | 92.9 | 78.2 | 33-85 | 116.9 | 7.42 | 30 | EO | |
| 2-Methylphenol | 11.21 | 5.0 | 20 | 0 | 56 | 29-76 | 11.97 | 6.56 | 30 | | |
| 2-Nitroaniline | 14.73 | 5.0 | 20 | 0 | 73.6 | 45-94 | 15.77 | 6.82 | 30 | | |
| 2-Nitrophenol | 11.84 | 5.0 | 20 | 0 | 59.2 | 41-84 | 12.32 | 3.97 | 30 | | |
| 3&4-Methylphenol | 11.8 | 5.0 | 20 | 0 | 59 | 24-70 | 11.83 | 0.254 | 30 | | |
| 3-Nitroaniline | 15.64 | 5.0 | 20 | 0 | 78.2 | 50-93 | 16.33 | 4.32 | 30 | | |
| 4,6-Dinitro-2-methylphenol | 14.56 | 5.0 | 20 | 0 | 72.8 | 23-116 | 16.24 | 10.9 | 30 | | |
| 4-Bromophenyl phenyl ether | 14.92 | 5.0 | 20 | 0 | 74.6 | 51-93 | 16.52 | 10.2 | 30 | | |
| 4-Chloro-3-methylphenol | 12.99 | 5.0 | 20 | 0 | 65 | 41-86 | 14.98 | 14.2 | 30 | | |
| 4-Chloroaniline | 13.02 | 5.0 | 20 | 0 | 65.1 | 44-92 | 13.39 | 2.8 | 30 | | |
| 4-Chlorophenyl phenyl ether | 12.89 | 5.0 | 20 | 0 | 64.4 | 49-89 | 13.39 | 3.81 | 30 | | |
| 4-Nitroaniline | 12.87 | 5.0 | 20 | 0 | 64.4 | 47-98 | 14.3 | 10.5 | 30 | | |
| 4-Nitrophenol | 8.6 | 5.0 | 20 | 0 | 43 | 10-43 | 10.73 | 22 | 30 | | |
| Acenaphthene | 57.96 | 5.0 | 20 | 47.04 | 54.6 | 42-85 | 60.77 | 4.73 | 30 | | |
| Acenaphthylene | 17.73 | 5.0 | 20 | 5.97 | 58.8 | 42-88 | 18.99 | 6.86 | 30 | | |
| Acetophenone | 12.46 | 1.0 | 20 | 0 | 62.3 | 39-91 | 13.08 | 4.86 | 30 | | |
| Anthracene | 14.84 | 5.0 | 20 | 0.61 | 71.2 | 55-93 | 16.58 | 11.1 | 30 | | |
| Atrazine | 13.02 | 1.0 | 20 | 0 | 65.1 | 52-100 | 13.46 | 3.32 | 30 | | |
| Benzaldehyde | 12.51 | 1.0 | 20 | 0 | 62.6 | 42-110 | 12.79 | 2.21 | 30 | | |
| Benzo(a)anthracene | 14.24 | 5.0 | 20 | 0 | 71.2 | 56-91 | 15.83 | 10.6 | 30 | | |
| Benzo(a)pyrene | 14.49 | 5.0 | 20 | 0 | 72.4 | 55-96 | 16.47 | 12.8 | 30 | | |
| Benzo(b)fluoranthene | 14.58 | 5.0 | 20 | 0 | 72.9 | 55-99 | 16.5 | 12.4 | 30 | | |
| Benzo(g,h,i)perylene | 14.65 | 5.0 | 20 | 0 | 73.2 | 44-102 | 16.84 | 13.9 | 30 | | |
| Benzo(k)fluoranthene | 15.26 | 5.0 | 20 | 0 | 76.3 | 57-96 | 17.04 | 11 | 30 | | |
| Bis(2-chloroethoxy)methane | 12.58 | 5.0 | 20 | 0 | 62.9 | 39-88 | 13.24 | 5.11 | 30 | | |
| Bis(2-chloroethyl)ether | 41.5 | 5.0 | 20 | 0 | 208 | 36-91 | 41.56 | 0.144 | 30 | S | |
| Bis(2-chloroisopropyl)ether | 10.99 | 5.0 | 20 | 0 | 55 | 33-83 | 11.57 | 5.14 | 30 | | |
| Bis(2-ethylhexyl)phthalate | 16.54 | 5.0 | 20 | 0 | 82.7 | 39-113 | 17.97 | 8.29 | 30 | | |
| Butyl benzyl phthalate | 14.94 | 5.0 | 20 | 0 | 74.7 | 49-97 | 11.87 | 22.9 | 30 | | |
| Carbazole | 17.45 | 5.0 | 20 | 2.83 | 73.1 | 59-92 | 19.67 | 12 | 30 | | |
| Chrysene | 16.07 | 5.0 | 20 | 0 | 80.4 | 55-92 | 16.63 | 3.43 | 30 | | |
| Dibenzo(a,h)anthracene | 15.58 | 5.0 | 20 | 0 | 77.9 | 47-100 | 15.8 | 1.4 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: 167999 | Instrument ID SVMS8 | | Method: SW846 8270D | | | | | | | |
|-----------------------------------|---------------------|-----|---------------------|-------|-------|--------|-------|------|----|-----|
| Dibenzofuran | 45.35 | 5.0 | 20 | 43.06 | 11.4 | 44-89 | 48.11 | 5.91 | 30 | S |
| Diethyl phthalate | 13.16 | 5.0 | 20 | 0 | 65.8 | 54-95 | 15.2 | 14.4 | 30 | |
| Dimethyl phthalate | 13.87 | 5.0 | 20 | 0 | 69.4 | 51-92 | 14.61 | 5.2 | 30 | |
| Di-n-butyl phthalate | 14.67 | 5.0 | 20 | 0 | 73.4 | 57-98 | 18.09 | 20.9 | 30 | |
| Di-n-octyl phthalate | 14.32 | 5.0 | 20 | 0 | 71.6 | 36-117 | 17.59 | 20.5 | 30 | |
| Fluoranthene | 16.76 | 5.0 | 20 | 0.11 | 83.2 | 59-93 | 18.72 | 11 | 30 | |
| Fluorene | 33.42 | 5.0 | 20 | 28.31 | 25.6 | 47-91 | 35.56 | 6.2 | 30 | S |
| Hexachlorobenzene | 14.98 | 5.0 | 20 | 0 | 74.9 | 53-89 | 16.88 | 11.9 | 30 | |
| Hexachlorobutadiene | 9.16 | 5.0 | 20 | 0 | 45.8 | 11-83 | 8.57 | 6.66 | 30 | |
| Hexachlorocyclopentadiene | 5.43 | 5.0 | 20 | 0 | 27.2 | 14-75 | 7.44 | 31.2 | 30 | R |
| Hexachloroethane | 9.28 | 5.0 | 20 | 0 | 46.4 | 10-85 | 8.5 | 8.77 | 30 | |
| Indeno(1,2,3-cd)pyrene | 14.97 | 5.0 | 20 | 0 | 74.8 | 46-102 | 14.68 | 1.96 | 30 | |
| Isophorone | 12.79 | 5.0 | 20 | 0 | 64 | 42-90 | 13.56 | 5.84 | 30 | |
| Naphthalene | 236 | 5.0 | 20 | 251.5 | -77.4 | 26-78 | 249.9 | 5.73 | 30 | SEO |
| Nitrobenzene | 11.4 | 5.0 | 20 | 0 | 57 | 38-86 | 12.13 | 6.2 | 30 | |
| N-Nitrosodi-n-propylamine | 12.38 | 5.0 | 20 | 0 | 61.9 | 39-95 | 12.92 | 4.27 | 30 | |
| N-Nitrosodiphenylamine | 12.06 | 5.0 | 20 | 0 | 60.3 | 47-94 | 13.97 | 14.7 | 30 | |
| Pentachlorophenol | 17.81 | 5.0 | 20 | 0 | 89 | 37-94 | 19.31 | 8.08 | 30 | |
| Phenanthrene | 23.9 | 5.0 | 20 | 10.16 | 68.7 | 51-90 | 25.74 | 7.41 | 30 | |
| Phenol | 5.94 | 5.0 | 20 | 0 | 29.7 | 10-40 | 6.58 | 10.2 | 30 | |
| Pyrene | 13.36 | 5.0 | 20 | 0 | 66.8 | 48-98 | 12.31 | 8.18 | 30 | |
| <i>Surr: 2,4,6-Tribromophenol</i> | 31.38 | 0 | 50 | 0 | 62.8 | 27-83 | 35.63 | 12.7 | 40 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 31.63 | 0 | 50 | 0 | 63.3 | 26-79 | 32.09 | 1.44 | 40 | |
| <i>Surr: 2-Fluorophenol</i> | 18.09 | 0 | 50 | 0 | 36.2 | 13-56 | 20.13 | 10.7 | 40 | |
| <i>Surr: 4-Terphenyl-d14</i> | 32.73 | 0 | 50 | 0 | 65.5 | 43-106 | 28.07 | 15.3 | 40 | |
| <i>Surr: Nitrobenzene-d5</i> | 28.12 | 0 | 50 | 0 | 56.2 | 29-80 | 30.85 | 9.26 | 40 | |
| <i>Surr: Phenol-d6</i> | 13.63 | 0 | 50 | 0 | 27.3 | 10-35 | 15.33 | 11.7 | 40 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111402-01B | 20111402-03B | 20111402-04B |
| 20111402-06B | 20111402-09B | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303043b** Instrument ID **VMS7** Method: **SW8260C**

| MBLK | | Sample ID: VBLKW1-201119-R303043b | | | | Units: µg/L | | Analysis Date: 11/19/2020 12:05 PM | | |
|--------------------------------|--------|--|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: VMS7_201119A | | SeqNo: 6914678 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | U | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | U | 1.0 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | U | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | U | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | U | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | U | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | U | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | U | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | U | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | U | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 2-Butanone | U | 5.0 | | | | | | | | |
| 2-Hexanone | U | 5.0 | | | | | | | | |
| 4-Methyl-2-pentanone | U | 1.0 | | | | | | | | |
| Acetone | U | 10 | | | | | | | | |
| Benzene | U | 1.0 | | | | | | | | |
| Bromodichloromethane | U | 1.0 | | | | | | | | |
| Bromoform | U | 1.0 | | | | | | | | |
| Bromomethane | U | 1.0 | | | | | | | | |
| Carbon disulfide | U | 1.0 | | | | | | | | |
| Carbon tetrachloride | U | 1.0 | | | | | | | | |
| Chlorobenzene | U | 1.0 | | | | | | | | |
| Chloroethane | U | 1.0 | | | | | | | | |
| Chloroform | U | 1.0 | | | | | | | | |
| Chloromethane | U | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | U | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | U | 1.0 | | | | | | | | |
| Cyclohexane | U | 2.0 | | | | | | | | |
| Dibromochloromethane | U | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | U | 1.0 | | | | | | | | |
| Ethylbenzene | U | 1.0 | | | | | | | | |
| Isopropylbenzene | U | 1.0 | | | | | | | | |
| Methyl acetate | U | 2.0 | | | | | | | | |
| Methyl tert-butyl ether | U | 1.0 | | | | | | | | |
| Methylcyclohexane | U | 1.0 | | | | | | | | |
| Methylene chloride | U | 5.0 | | | | | | | | |
| Styrene | U | 1.0 | | | | | | | | |
| Tetrachloroethene | U | 1.0 | | | | | | | | |
| Toluene | U | 1.0 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: R303043b | Instrument ID VMS7 | Method: SW8260C | | | | | | |
|------------------------------------|---------------------------|------------------------|----|---|------|--------|---|--|
| trans-1,2-Dichloroethene | U | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | U | 1.0 | | | | | | |
| Trichloroethene | U | 1.0 | | | | | | |
| Trichlorofluoromethane | U | 1.0 | | | | | | |
| Vinyl chloride | U | 1.0 | | | | | | |
| Xylenes, Total | U | 3.0 | | | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 20.8 | 0 | 20 | 0 | 104 | 75-120 | 0 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 18.26 | 0 | 20 | 0 | 91.3 | 80-110 | 0 | |
| <i>Surr: Dibromofluoromethane</i> | 20.28 | 0 | 20 | 0 | 101 | 85-115 | 0 | |
| <i>Surr: Toluene-d8</i> | 19.72 | 0 | 20 | 0 | 98.6 | 85-110 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303043b** Instrument ID **VMS7** Method: **SW8260C**

| LCS | | Sample ID: VLCSW1-201119-R303043b | | | | Units: µg/L | | Analysis Date: 11/19/2020 11:15 AM | | |
|-----------------------------|--------|--|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: VMS7_201119A | | | SeqNo: 6914677 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 19.87 | 1.0 | 20 | 0 | 99.4 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 20.92 | 1.0 | 20 | 0 | 105 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 21.19 | 1.0 | 20 | 0 | 106 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 21.35 | 1.0 | 20 | 0 | 107 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 21.3 | 1.0 | 20 | 0 | 106 | 70-145 | 0 | | | |
| 1,2,4-Trichlorobenzene | 17.93 | 1.0 | 20 | 0 | 89.6 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 21.27 | 1.0 | 20 | 0 | 106 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 22.01 | 1.0 | 20 | 0 | 110 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 20.7 | 1.0 | 20 | 0 | 104 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 20.15 | 1.0 | 20 | 0 | 101 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 19.41 | 1.0 | 20 | 0 | 97 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 20.75 | 1.0 | 20 | 0 | 104 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 21.61 | 1.0 | 20 | 0 | 108 | 75-130 | 0 | | | |
| 2-Butanone | 21.2 | 5.0 | 20 | 0 | 106 | 55-150 | 0 | | | |
| 2-Hexanone | 20.63 | 5.0 | 20 | 0 | 103 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 35.35 | 1.0 | 20 | 0 | 177 | 77-178 | 0 | | | |
| Acetone | 23.67 | 10 | 20 | 0 | 118 | 60-160 | 0 | | | |
| Benzene | 20.73 | 1.0 | 20 | 0 | 104 | 70-130 | 0 | | | |
| Bromodichloromethane | 20.52 | 1.0 | 20 | 0 | 103 | 75-125 | 0 | | | |
| Bromoform | 18.16 | 1.0 | 20 | 0 | 90.8 | 60-125 | 0 | | | |
| Bromomethane | 19.5 | 1.0 | 20 | 0 | 97.5 | 30-185 | 0 | | | |
| Carbon disulfide | 21.48 | 1.0 | 20 | 0 | 107 | 60-165 | 0 | | | |
| Carbon tetrachloride | 18.12 | 1.0 | 20 | 0 | 90.6 | 65-140 | 0 | | | |
| Chlorobenzene | 21.01 | 1.0 | 20 | 0 | 105 | 80-120 | 0 | | | |
| Chloroethane | 34.48 | 1.0 | 20 | 0 | 172 | 31-172 | 0 | | | S |
| Chloroform | 19.32 | 1.0 | 20 | 0 | 96.6 | 66-135 | 0 | | | |
| Chloromethane | 17.54 | 1.0 | 20 | 0 | 87.7 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 22.32 | 1.0 | 20 | 0 | 112 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 20.86 | 1.0 | 20 | 0 | 104 | 70-130 | 0 | | | |
| Dibromochloromethane | 20.47 | 1.0 | 20 | 0 | 102 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 25.24 | 1.0 | 20 | 0 | 126 | 20-120 | 0 | | | S |
| Ethylbenzene | 20.7 | 1.0 | 20 | 0 | 104 | 76-123 | 0 | | | |
| Isopropylbenzene | 22.19 | 1.0 | 20 | 0 | 111 | 80-127 | 0 | | | |
| Methyl tert-butyl ether | 21.38 | 1.0 | 20 | 0 | 107 | 68-129 | 0 | | | |
| Methylene chloride | 19.16 | 5.0 | 20 | 0 | 95.8 | 72-125 | 0 | | | |
| Styrene | 23.99 | 1.0 | 20 | 0 | 120 | 79-117 | 0 | | | S |
| Tetrachloroethene | 20.56 | 1.0 | 20 | 0 | 103 | 68-166 | 0 | | | |
| Toluene | 21 | 1.0 | 20 | 0 | 105 | 76-125 | 0 | | | |
| trans-1,2-Dichloroethene | 20.27 | 1.0 | 20 | 0 | 101 | 80-140 | 0 | | | |
| trans-1,3-Dichloropropene | 22.38 | 1.0 | 20 | 0 | 112 | 56-132 | 0 | | | |
| Trichloroethene | 20.68 | 1.0 | 20 | 0 | 103 | 77-125 | 0 | | | |
| Trichlorofluoromethane | 16.11 | 1.0 | 20 | 0 | 80.6 | 60-140 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|---------------------------|------------------------|-----------|----------|------------|---------------|----------|--|
| Batch ID: R303043b | Instrument ID VMS7 | Method: SW8260C | | | | | | |
| Vinyl chloride | 21.04 | 1.0 | 20 | 0 | 105 | 50-136 | 0 | |
| Xylenes, Total | 64.16 | 3.0 | 60 | 0 | 107 | 76-127 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>20.17</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>101</i> | <i>75-120</i> | <i>0</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>20.49</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>102</i> | <i>80-110</i> | <i>0</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>20.47</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>102</i> | <i>85-115</i> | <i>0</i> | |
| <i>Surr: Toluene-d8</i> | <i>20.55</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>103</i> | <i>85-110</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303043b** Instrument ID **VMS7** Method: **SW8260C**

| MS | | | | Sample ID: 20111020-01A MS | | Units: µg/L | | Analysis Date: 11/19/2020 06:57 PM | | |
|-----------------------------|--------|----------------------|---------|----------------------------|------|---------------|---------------|------------------------------------|-----------|------|
| Client ID: | | Run ID: VMS7_201119A | | SeqNo: 6917296 | | Prep Date: | | DF: 25 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 1578 | 25 | 500 | 1041 | 107 | 75-130 | | 0 | | |
| 1,1,2,2-Tetrachloroethane | 563 | 25 | 500 | 0 | 113 | 75-130 | | 0 | | |
| 1,1,2-Trichloroethane | 549 | 25 | 500 | 0 | 110 | 75-125 | | 0 | | |
| 1,1-Dichloroethane | 691.8 | 25 | 500 | 58.25 | 127 | 68-142 | | 0 | | |
| 1,1-Dichloroethene | 760 | 25 | 500 | 101.2 | 132 | 70-145 | | 0 | | |
| 1,2,4-Trichlorobenzene | 486.2 | 25 | 500 | 0 | 97.2 | 70-135 | | 0 | | |
| 1,2-Dibromo-3-chloropropane | 496 | 25 | 500 | 0 | 99.2 | 60-130 | | 0 | | |
| 1,2-Dibromoethane | 554.8 | 25 | 500 | 0 | 111 | 67-155 | | 0 | | |
| 1,2-Dichlorobenzene | 502 | 25 | 500 | 0 | 100 | 70-130 | | 0 | | |
| 1,2-Dichloroethane | 578.5 | 25 | 500 | 0 | 116 | 78-125 | | 0 | | |
| 1,2-Dichloropropane | 536.8 | 25 | 500 | 0 | 107 | 75-125 | | 0 | | |
| 1,3-Dichlorobenzene | 509.8 | 25 | 500 | 0 | 102 | 75-130 | | 0 | | |
| 1,4-Dichlorobenzene | 524.8 | 25 | 500 | 0 | 105 | 75-130 | | 0 | | |
| 2-Butanone | 590.2 | 120 | 500 | 0 | 118 | 55-150 | | 0 | | |
| 2-Hexanone | 539.2 | 120 | 500 | 0 | 108 | 60-135 | | 0 | | |
| 4-Methyl-2-pentanone | 924 | 25 | 500 | 0 | 185 | 77-178 | | 0 | | S |
| Acetone | 623.8 | 250 | 500 | 0 | 125 | 60-160 | | 0 | | |
| Benzene | 582.8 | 25 | 500 | 0 | 117 | 70-130 | | 0 | | |
| Bromodichloromethane | 590.2 | 25 | 500 | 0 | 118 | 75-125 | | 0 | | |
| Bromoform | 452.8 | 25 | 500 | 0 | 90.6 | 60-125 | | 0 | | |
| Bromomethane | 2715 | 25 | 500 | 0 | 543 | 30-185 | | 0 | | SE |
| Carbon disulfide | 664 | 25 | 500 | 0 | 133 | 60-165 | | 0 | | |
| Carbon tetrachloride | 547 | 25 | 500 | 0 | 109 | 65-140 | | 0 | | |
| Chlorobenzene | 592.8 | 25 | 500 | 44 | 110 | 80-120 | | 0 | | |
| Chloroethane | 1002 | 25 | 500 | 0 | 200 | 31-172 | | 0 | | S |
| Chloroform | 563.2 | 25 | 500 | 0 | 113 | 66-135 | | 0 | | |
| Chloromethane | 585 | 25 | 500 | 6.75 | 116 | 46-148 | | 0 | | |
| cis-1,2-Dichloroethene | 829.5 | 25 | 500 | 176.2 | 131 | 75-134 | | 0 | | |
| cis-1,3-Dichloropropene | 552.2 | 25 | 500 | 0 | 110 | 70-130 | | 0 | | |
| Dibromochloromethane | 526.2 | 25 | 500 | 0 | 105 | 60-115 | | 0 | | |
| Dichlorodifluoromethane | 900 | 25 | 500 | 0 | 180 | 20-120 | | 0 | | S |
| Ethylbenzene | 534.8 | 25 | 500 | 0 | 107 | 76-123 | | 0 | | |
| Isopropylbenzene | 552.2 | 25 | 500 | 0 | 110 | 80-127 | | 0 | | |
| Methyl tert-butyl ether | 567.2 | 25 | 500 | 0 | 113 | 68-129 | | 0 | | |
| Methylene chloride | 600.8 | 120 | 500 | 0 | 120 | 72-125 | | 0 | | |
| Styrene | 621.5 | 25 | 500 | 0 | 124 | 79-117 | | 0 | | S |
| Tetrachloroethene | 588.8 | 25 | 500 | 48 | 108 | 68-166 | | 0 | | |
| Toluene | 553 | 25 | 500 | 0 | 111 | 76-125 | | 0 | | |
| trans-1,2-Dichloroethene | 601.5 | 25 | 500 | 0 | 120 | 80-140 | | 0 | | |
| trans-1,3-Dichloropropene | 558 | 25 | 500 | 0 | 112 | 56-132 | | 0 | | |
| Trichloroethene | 567.8 | 25 | 500 | 9.75 | 112 | 77-125 | | 0 | | |
| Trichlorofluoromethane | 539.5 | 25 | 500 | 0 | 108 | 60-140 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|---------------------------|------------------------|------------|----------|------------|---------------|----------|--|
| Batch ID: R303043b | Instrument ID VMS7 | Method: SW8260C | | | | | | |
| Vinyl chloride | 657.2 | 25 | 500 | 0 | 131 | 50-136 | 0 | |
| Xylenes, Total | 1660 | 75 | 1500 | 0 | 111 | 76-127 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>552.8</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>111</i> | <i>75-120</i> | <i>0</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>508.8</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>102</i> | <i>80-110</i> | <i>0</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>557.2</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>111</i> | <i>85-115</i> | <i>0</i> | |
| <i>Surr: Toluene-d8</i> | <i>504.8</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>101</i> | <i>85-110</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303043b** Instrument ID **VMS7** Method: **SW8260C**

| MSD | | | | Sample ID: 20111020-01A MSD | | | Units: µg/L | | Analysis Date: 11/19/2020 07:14 PM | | |
|-----------------------------|--------|-----------------------------|---------|------------------------------------|-----------------------|---------------|--------------------|-------|---|------|--|
| Client ID: | | Run ID: VMS7_201119A | | | SeqNo: 6917297 | | Prep Date: | | DF: 25 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1,1-Trichloroethane | 1656 | 25 | 500 | 1041 | 123 | 75-130 | 1578 | 4.85 | 30 | | |
| 1,1,2,2-Tetrachloroethane | 559.5 | 25 | 500 | 0 | 112 | 75-130 | 563 | 0.624 | 30 | | |
| 1,1,2-Trichloroethane | 567.2 | 25 | 500 | 0 | 113 | 75-125 | 549 | 3.27 | 30 | | |
| 1,1-Dichloroethane | 675.5 | 25 | 500 | 58.25 | 123 | 68-142 | 691.8 | 2.38 | 30 | | |
| 1,1-Dichloroethene | 763.8 | 25 | 500 | 101.2 | 132 | 70-145 | 760 | 0.492 | 30 | | |
| 1,2,4-Trichlorobenzene | 511.8 | 25 | 500 | 0 | 102 | 70-135 | 486.2 | 5.11 | 30 | | |
| 1,2-Dibromo-3-chloropropane | 547.5 | 25 | 500 | 0 | 110 | 60-130 | 496 | 9.87 | 30 | | |
| 1,2-Dibromoethane | 573.2 | 25 | 500 | 0 | 115 | 67-155 | 554.8 | 3.28 | 30 | | |
| 1,2-Dichlorobenzene | 526.5 | 25 | 500 | 0 | 105 | 70-130 | 502 | 4.76 | 30 | | |
| 1,2-Dichloroethane | 583 | 25 | 500 | 0 | 117 | 78-125 | 578.5 | 0.775 | 30 | | |
| 1,2-Dichloropropane | 547.2 | 25 | 500 | 0 | 109 | 75-125 | 536.8 | 1.94 | 30 | | |
| 1,3-Dichlorobenzene | 541.8 | 25 | 500 | 0 | 108 | 75-130 | 509.8 | 6.09 | 30 | | |
| 1,4-Dichlorobenzene | 545 | 25 | 500 | 0 | 109 | 75-130 | 524.8 | 3.79 | 30 | | |
| 2-Butanone | 581 | 120 | 500 | 0 | 116 | 55-150 | 590.2 | 1.58 | 30 | | |
| 2-Hexanone | 559 | 120 | 500 | 0 | 112 | 60-135 | 539.2 | 3.6 | 30 | | |
| 4-Methyl-2-pentanone | 942.5 | 25 | 500 | 0 | 188 | 77-178 | 924 | 1.98 | 30 | S | |
| Acetone | 624.8 | 250 | 500 | 0 | 125 | 60-160 | 623.8 | 0.16 | 30 | | |
| Benzene | 597.5 | 25 | 500 | 0 | 120 | 70-130 | 582.8 | 2.5 | 30 | | |
| Bromodichloromethane | 607.8 | 25 | 500 | 0 | 122 | 75-125 | 590.2 | 2.92 | 30 | | |
| Bromoform | 464.2 | 25 | 500 | 0 | 92.8 | 60-125 | 452.8 | 2.51 | 30 | | |
| Bromomethane | 3995 | 25 | 500 | 0 | 799 | 30-185 | 2715 | 38.2 | 30 | SRE | |
| Carbon disulfide | 668 | 25 | 500 | 0 | 134 | 60-165 | 664 | 0.601 | 30 | | |
| Carbon tetrachloride | 546 | 25 | 500 | 0 | 109 | 65-140 | 547 | 0.183 | 30 | | |
| Chlorobenzene | 605 | 25 | 500 | 44 | 112 | 80-120 | 592.8 | 2.05 | 30 | | |
| Chloroethane | 1013 | 25 | 500 | 0 | 203 | 31-172 | 1002 | 1.04 | 30 | S | |
| Chloroform | 559.5 | 25 | 500 | 0 | 112 | 66-135 | 563.2 | 0.668 | 30 | | |
| Chloromethane | 558.2 | 25 | 500 | 6.75 | 110 | 46-148 | 585 | 4.68 | 30 | | |
| cis-1,2-Dichloroethene | 822.8 | 25 | 500 | 176.2 | 129 | 75-134 | 829.5 | 0.817 | 30 | | |
| cis-1,3-Dichloropropene | 555.2 | 25 | 500 | 0 | 111 | 70-130 | 552.2 | 0.542 | 30 | | |
| Dibromochloromethane | 539.5 | 25 | 500 | 0 | 108 | 60-115 | 526.2 | 2.49 | 30 | | |
| Dichlorodifluoromethane | 907 | 25 | 500 | 0 | 181 | 20-120 | 900 | 0.775 | 30 | S | |
| Ethylbenzene | 555 | 25 | 500 | 0 | 111 | 76-123 | 534.8 | 3.72 | 30 | | |
| Isopropylbenzene | 579.8 | 25 | 500 | 0 | 116 | 80-127 | 552.2 | 4.86 | 30 | | |
| Methyl tert-butyl ether | 573.5 | 25 | 500 | 0 | 115 | 68-129 | 567.2 | 1.1 | 30 | | |
| Methylene chloride | 582 | 120 | 500 | 0 | 116 | 72-125 | 600.8 | 3.17 | 30 | | |
| Styrene | 623.8 | 25 | 500 | 0 | 125 | 79-117 | 621.5 | 0.361 | 30 | S | |
| Tetrachloroethene | 601 | 25 | 500 | 48 | 111 | 68-166 | 588.8 | 2.06 | 30 | | |
| Toluene | 567.5 | 25 | 500 | 0 | 114 | 76-125 | 553 | 2.59 | 30 | | |
| trans-1,2-Dichloroethene | 605.8 | 25 | 500 | 0 | 121 | 80-140 | 601.5 | 0.704 | 30 | | |
| trans-1,3-Dichloropropene | 561 | 25 | 500 | 0 | 112 | 56-132 | 558 | 0.536 | 30 | | |
| Trichloroethene | 579.2 | 25 | 500 | 9.75 | 114 | 77-125 | 567.8 | 2.01 | 30 | | |
| Trichlorofluoromethane | 528.2 | 25 | 500 | 0 | 106 | 60-140 | 539.5 | 2.11 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: R303043b | Instrument ID VMS7 | Method: SW8260C | | | | | | | | |
|------------------------------------|---------------------------|------------------------|------------|----------|-------------|---------------|--------------|---------------|-----------|--|
| Vinyl chloride | 668.8 | 25 | 500 | 0 | 134 | 50-136 | 657.2 | 1.73 | 30 | |
| Xylenes, Total | 1676 | 75 | 1500 | 0 | 112 | 76-127 | 1660 | 0.96 | 30 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>560.2</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>112</i> | <i>75-120</i> | <i>552.8</i> | <i>1.35</i> | <i>30</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>509.2</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>102</i> | <i>80-110</i> | <i>508.8</i> | <i>0.0982</i> | <i>30</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>542.2</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>108</i> | <i>85-115</i> | <i>557.2</i> | <i>2.73</i> | <i>30</i> | |
| <i>Surr: Toluene-d8</i> | <i>497.2</i> | <i>0</i> | <i>500</i> | <i>0</i> | <i>99.4</i> | <i>85-110</i> | <i>504.8</i> | <i>1.5</i> | <i>30</i> | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 20111402-01A | 20111402-02A | 20111402-03A |
| 20111402-04A | 20111402-05A | 20111402-06A |
| 20111402-07A | 20111402-10A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303160A** Instrument ID **VMS10** Method: **SW8260C**

| MBLK | | Sample ID: VBLKW1-201120-R303160A | | | | Units: µg/L | | Analysis Date: 11/20/2020 01:57 PM | | |
|--------------------------------|--------|--|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: VMS10_201120A | | SeqNo: 6920112 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | U | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | U | 1.0 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | U | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | U | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | U | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | U | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | U | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | U | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | U | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | U | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | U | 1.0 | | | | | | | | |
| 2-Butanone | U | 5.0 | | | | | | | | |
| 2-Hexanone | U | 5.0 | | | | | | | | |
| 4-Methyl-2-pentanone | U | 1.0 | | | | | | | | |
| Acetone | U | 10 | | | | | | | | |
| Benzene | U | 1.0 | | | | | | | | |
| Bromodichloromethane | U | 1.0 | | | | | | | | |
| Bromoform | U | 1.0 | | | | | | | | |
| Bromomethane | U | 1.0 | | | | | | | | |
| Carbon disulfide | U | 1.0 | | | | | | | | |
| Carbon tetrachloride | U | 1.0 | | | | | | | | |
| Chlorobenzene | U | 1.0 | | | | | | | | |
| Chloroethane | U | 1.0 | | | | | | | | |
| Chloroform | U | 1.0 | | | | | | | | |
| Chloromethane | U | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | U | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | U | 1.0 | | | | | | | | |
| Cyclohexane | U | 2.0 | | | | | | | | |
| Dibromochloromethane | U | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | U | 1.0 | | | | | | | | |
| Ethylbenzene | U | 1.0 | | | | | | | | |
| Isopropylbenzene | U | 1.0 | | | | | | | | |
| Methyl acetate | U | 2.0 | | | | | | | | |
| Methyl tert-butyl ether | U | 1.0 | | | | | | | | |
| Methylcyclohexane | U | 1.0 | | | | | | | | |
| Methylene chloride | U | 5.0 | | | | | | | | |
| Styrene | U | 1.0 | | | | | | | | |
| Tetrachloroethene | U | 1.0 | | | | | | | | |
| Toluene | U | 1.0 | | | | | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: R303160A | Instrument ID VMS10 | Method: SW8260C | | | | | | |
|------------------------------------|----------------------------|------------------------|----|---|------|--------|---|--|
| trans-1,2-Dichloroethene | U | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | U | 1.0 | | | | | | |
| Trichloroethene | U | 1.0 | | | | | | |
| Trichlorofluoromethane | U | 1.0 | | | | | | |
| Vinyl chloride | U | 1.0 | | | | | | |
| Xylenes, Total | U | 3.0 | | | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 18.62 | 0 | 20 | 0 | 93.1 | 75-120 | 0 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 18.58 | 0 | 20 | 0 | 92.9 | 80-110 | 0 | |
| <i>Surr: Dibromofluoromethane</i> | 20.35 | 0 | 20 | 0 | 102 | 85-115 | 0 | |
| <i>Surr: Toluene-d8</i> | 18.08 | 0 | 20 | 0 | 90.4 | 85-110 | 0 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303160A** Instrument ID **VMS10** Method: **SW8260C**

| LCS | | | | Sample ID: VLCSW1-201120-R303160A | | Units: µg/L | | Analysis Date: 11/20/2020 01:16 PM | | |
|-----------------------------|--------|------------------------------|---------|--|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: VMS10_201120A | | SeqNo: 6920111 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 22.01 | 1.0 | 20 | 0 | 110 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 20.13 | 1.0 | 20 | 0 | 101 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 20.05 | 1.0 | 20 | 0 | 100 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 22.83 | 1.0 | 20 | 0 | 114 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 21.48 | 1.0 | 20 | 0 | 107 | 70-145 | 0 | | | |
| 1,2,4-Trichlorobenzene | 20.01 | 1.0 | 20 | 0 | 100 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 18.7 | 1.0 | 20 | 0 | 93.5 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 21.08 | 1.0 | 20 | 0 | 105 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 19.99 | 1.0 | 20 | 0 | 100 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 20.13 | 1.0 | 20 | 0 | 101 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 21.87 | 1.0 | 20 | 0 | 109 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 20.63 | 1.0 | 20 | 0 | 103 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 19.83 | 1.0 | 20 | 0 | 99.2 | 75-130 | 0 | | | |
| 2-Butanone | 18.69 | 5.0 | 20 | 0 | 93.4 | 55-150 | 0 | | | |
| 2-Hexanone | 16.45 | 5.0 | 20 | 0 | 82.2 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 22.94 | 1.0 | 20 | 0 | 115 | 77-178 | 0 | | | |
| Acetone | 18.69 | 10 | 20 | 0 | 93.4 | 60-160 | 0 | | | |
| Benzene | 21.17 | 1.0 | 20 | 0 | 106 | 70-130 | 0 | | | |
| Bromodichloromethane | 22.63 | 1.0 | 20 | 0 | 113 | 75-125 | 0 | | | |
| Bromoform | 17.52 | 1.0 | 20 | 0 | 87.6 | 60-125 | 0 | | | |
| Bromomethane | 79.85 | 1.0 | 20 | 0 | 399 | 30-185 | 0 | | | S |
| Carbon disulfide | 23.62 | 1.0 | 20 | 0 | 118 | 60-165 | 0 | | | |
| Carbon tetrachloride | 22.26 | 1.0 | 20 | 0 | 111 | 65-140 | 0 | | | |
| Chlorobenzene | 19.88 | 1.0 | 20 | 0 | 99.4 | 80-120 | 0 | | | |
| Chloroethane | 32.02 | 1.0 | 20 | 0 | 160 | 31-172 | 0 | | | |
| Chloroform | 22.7 | 1.0 | 20 | 0 | 114 | 66-135 | 0 | | | |
| Chloromethane | 18.28 | 1.0 | 20 | 0 | 91.4 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 22.33 | 1.0 | 20 | 0 | 112 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 20.97 | 1.0 | 20 | 0 | 105 | 70-130 | 0 | | | |
| Dibromochloromethane | 19.2 | 1.0 | 20 | 0 | 96 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 24.81 | 1.0 | 20 | 0 | 124 | 20-120 | 0 | | | S |
| Ethylbenzene | 19.75 | 1.0 | 20 | 0 | 98.8 | 76-123 | 0 | | | |
| Isopropylbenzene | 21.43 | 1.0 | 20 | 0 | 107 | 80-127 | 0 | | | |
| Methyl tert-butyl ether | 21.9 | 1.0 | 20 | 0 | 110 | 68-129 | 0 | | | |
| Methylene chloride | 21.6 | 5.0 | 20 | 0 | 108 | 72-125 | 0 | | | |
| Styrene | 22.04 | 1.0 | 20 | 0 | 110 | 79-117 | 0 | | | |
| Tetrachloroethene | 21.14 | 1.0 | 20 | 0 | 106 | 68-166 | 0 | | | |
| Toluene | 18.81 | 1.0 | 20 | 0 | 94 | 76-125 | 0 | | | |
| trans-1,2-Dichloroethene | 22.2 | 1.0 | 20 | 0 | 111 | 80-140 | 0 | | | |
| trans-1,3-Dichloropropene | 17.27 | 1.0 | 20 | 0 | 86.4 | 56-132 | 0 | | | |
| Trichloroethene | 22.46 | 1.0 | 20 | 0 | 112 | 77-125 | 0 | | | |
| Trichlorofluoromethane | 17.92 | 1.0 | 20 | 0 | 89.6 | 60-140 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|----------------------------|------------------------|-----------|----------|-------------|---------------|----------|--|
| Batch ID: R303160A | Instrument ID VMS10 | Method: SW8260C | | | | | | |
| Vinyl chloride | 21.62 | 1.0 | 20 | 0 | 108 | 50-136 | 0 | |
| Xylenes, Total | 59.41 | 3.0 | 60 | 0 | 99 | 76-127 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>18.17</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>90.8</i> | <i>75-120</i> | <i>0</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>19.77</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>98.8</i> | <i>80-110</i> | <i>0</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>19.97</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>99.8</i> | <i>85-115</i> | <i>0</i> | |
| <i>Surr: Toluene-d8</i> | <i>18.05</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>90.2</i> | <i>85-110</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303160A** Instrument ID **VMS10** Method: **SW8260C**

| MS | | | | Sample ID: 20111134-31A MS | | Units: µg/L | | Analysis Date: 11/20/2020 09:29 PM | | |
|-----------------------------|--------|------------------------------|---------|-----------------------------------|------|--------------------|---------------|---|-----------|------|
| Client ID: | | Run ID: VMS10_201120A | | SeqNo: 6920134 | | Prep Date: | | DF: 50 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1-Trichloroethane | 1154 | 50 | 1000 | 0 | 115 | 75-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 948 | 50 | 1000 | 0 | 94.8 | 75-130 | 0 | | | |
| 1,1,2-Trichloroethane | 1010 | 50 | 1000 | 0 | 101 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 1199 | 50 | 1000 | 0 | 120 | 68-142 | 0 | | | |
| 1,1-Dichloroethene | 1176 | 50 | 1000 | 0 | 118 | 70-145 | 0 | | | |
| 1,2,4-Trichlorobenzene | 913 | 50 | 1000 | 0 | 91.3 | 70-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 902.5 | 50 | 1000 | 0 | 90.2 | 60-130 | 0 | | | |
| 1,2-Dibromoethane | 1065 | 50 | 1000 | 0 | 106 | 67-155 | 0 | | | |
| 1,2-Dichlorobenzene | 972 | 50 | 1000 | 0 | 97.2 | 70-130 | 0 | | | |
| 1,2-Dichloroethane | 1012 | 50 | 1000 | 0 | 101 | 78-125 | 0 | | | |
| 1,2-Dichloropropane | 1115 | 50 | 1000 | 0 | 112 | 75-125 | 0 | | | |
| 1,3-Dichlorobenzene | 1002 | 50 | 1000 | 0 | 100 | 75-130 | 0 | | | |
| 1,4-Dichlorobenzene | 965.5 | 50 | 1000 | 0 | 96.6 | 75-130 | 0 | | | |
| 2-Butanone | 2460 | 250 | 1000 | 1514 | 94.6 | 55-150 | 0 | | | |
| 2-Hexanone | 754 | 250 | 1000 | 0 | 75.4 | 60-135 | 0 | | | |
| 4-Methyl-2-pentanone | 1032 | 50 | 1000 | 0 | 103 | 77-178 | 0 | | | |
| Acetone | 939.5 | 500 | 1000 | 29.5 | 91 | 60-160 | 0 | | | |
| Benzene | 1110 | 50 | 1000 | 0 | 111 | 70-130 | 0 | | | |
| Bromodichloromethane | 1142 | 50 | 1000 | 0 | 114 | 75-125 | 0 | | | |
| Bromoform | 853.5 | 50 | 1000 | 0 | 85.4 | 60-125 | 0 | | | |
| Bromomethane | 6142 | 50 | 1000 | 0 | 614 | 30-185 | 0 | | | SE |
| Carbon disulfide | 1294 | 50 | 1000 | 0 | 129 | 60-165 | 0 | | | |
| Carbon tetrachloride | 1224 | 50 | 1000 | 0 | 122 | 65-140 | 0 | | | |
| Chlorobenzene | 1268 | 50 | 1000 | 280 | 98.8 | 80-120 | 0 | | | |
| Chloroethane | 1218 | 50 | 1000 | 0 | 122 | 31-172 | 0 | | | |
| Chloroform | 1196 | 50 | 1000 | 0 | 120 | 66-135 | 0 | | | |
| Chloromethane | 902.5 | 50 | 1000 | 0 | 90.2 | 46-148 | 0 | | | |
| cis-1,2-Dichloroethene | 1145 | 50 | 1000 | 0 | 114 | 75-134 | 0 | | | |
| cis-1,3-Dichloropropene | 990 | 50 | 1000 | 0 | 99 | 70-130 | 0 | | | |
| Dibromochloromethane | 963.5 | 50 | 1000 | 0 | 96.4 | 60-115 | 0 | | | |
| Dichlorodifluoromethane | 1473 | 50 | 1000 | 0 | 147 | 20-120 | 0 | | | S |
| Ethylbenzene | 1004 | 50 | 1000 | 0 | 100 | 76-123 | 0 | | | |
| Isopropylbenzene | 1080 | 50 | 1000 | 0 | 108 | 80-127 | 0 | | | |
| Methyl tert-butyl ether | 1082 | 50 | 1000 | 0 | 108 | 68-129 | 0 | | | |
| Methylene chloride | 1119 | 250 | 1000 | 0 | 112 | 72-125 | 0 | | | |
| Styrene | 1074 | 50 | 1000 | 0 | 107 | 79-117 | 0 | | | |
| Tetrachloroethene | 1124 | 50 | 1000 | 0 | 112 | 68-166 | 0 | | | |
| Toluene | 960 | 50 | 1000 | 0 | 96 | 76-125 | 0 | | | |
| trans-1,2-Dichloroethene | 1181 | 50 | 1000 | 0 | 118 | 80-140 | 0 | | | |
| trans-1,3-Dichloropropene | 800 | 50 | 1000 | 0 | 80 | 56-132 | 0 | | | |
| Trichloroethene | 1204 | 50 | 1000 | 0 | 120 | 77-125 | 0 | | | |
| Trichlorofluoromethane | 1016 | 50 | 1000 | 0 | 102 | 60-140 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| | | | | | | | | |
|------------------------------------|----------------------------|------------------------|-------------|----------|-------------|---------------|----------|--|
| Batch ID: R303160A | Instrument ID VMS10 | Method: SW8260C | | | | | | |
| Vinyl chloride | 1234 | 50 | 1000 | 0 | 123 | 50-136 | 0 | |
| Xylenes, Total | 2958 | 150 | 3000 | 0 | 98.6 | 76-127 | 0 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>913</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>91.3</i> | <i>75-120</i> | <i>0</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>988</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>98.8</i> | <i>80-110</i> | <i>0</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>1048</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>105</i> | <i>85-115</i> | <i>0</i> | |
| <i>Surr: Toluene-d8</i> | <i>903</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>90.3</i> | <i>85-110</i> | <i>0</i> | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
 Work Order: 20111402
 Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

Batch ID: **R303160A** Instrument ID **VMS10** Method: **SW8260C**

| MSD | | | | Sample ID: 20111134-31A MSD | | | Units: µg/L | | Analysis Date: 11/20/2020 09:49 PM | | |
|-----------------------------|--------|------------------------------|---------|------------------------------------|------|---------------|--------------------|---------------|---|------|--|
| Client ID: | | Run ID: VMS10_201120A | | SeqNo: 6920135 | | Prep Date: | | DF: 50 | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,1,1-Trichloroethane | 1216 | 50 | 1000 | 0 | 122 | 75-130 | 1154 | 5.19 | 30 | | |
| 1,1,2,2-Tetrachloroethane | 968 | 50 | 1000 | 0 | 96.8 | 75-130 | 948 | 2.09 | 30 | | |
| 1,1,2-Trichloroethane | 1018 | 50 | 1000 | 0 | 102 | 75-125 | 1010 | 0.838 | 30 | | |
| 1,1-Dichloroethane | 1218 | 50 | 1000 | 0 | 122 | 68-142 | 1199 | 1.57 | 30 | | |
| 1,1-Dichloroethene | 1170 | 50 | 1000 | 0 | 117 | 70-145 | 1176 | 0.469 | 30 | | |
| 1,2,4-Trichlorobenzene | 967.5 | 50 | 1000 | 0 | 96.8 | 70-135 | 913 | 5.8 | 30 | | |
| 1,2-Dibromo-3-chloropropane | 921 | 50 | 1000 | 0 | 92.1 | 60-130 | 902.5 | 2.03 | 30 | | |
| 1,2-Dibromoethane | 1079 | 50 | 1000 | 0 | 108 | 67-155 | 1065 | 1.31 | 30 | | |
| 1,2-Dichlorobenzene | 1016 | 50 | 1000 | 0 | 102 | 70-130 | 972 | 4.48 | 30 | | |
| 1,2-Dichloroethane | 1034 | 50 | 1000 | 0 | 103 | 78-125 | 1012 | 2.1 | 30 | | |
| 1,2-Dichloropropane | 1168 | 50 | 1000 | 0 | 117 | 75-125 | 1115 | 4.64 | 30 | | |
| 1,3-Dichlorobenzene | 1056 | 50 | 1000 | 0 | 106 | 75-130 | 1002 | 5.3 | 30 | | |
| 1,4-Dichlorobenzene | 1020 | 50 | 1000 | 0 | 102 | 75-130 | 965.5 | 5.49 | 30 | | |
| 2-Butanone | 2486 | 250 | 1000 | 1514 | 97.2 | 55-150 | 2460 | 1.05 | 30 | | |
| 2-Hexanone | 762 | 250 | 1000 | 0 | 76.2 | 60-135 | 754 | 1.06 | 30 | | |
| 4-Methyl-2-pentanone | 1043 | 50 | 1000 | 0 | 104 | 77-178 | 1032 | 1.11 | 30 | | |
| Acetone | 968.5 | 500 | 1000 | 29.5 | 93.9 | 60-160 | 939.5 | 3.04 | 30 | | |
| Benzene | 1136 | 50 | 1000 | 0 | 114 | 70-130 | 1110 | 2.32 | 30 | | |
| Bromodichloromethane | 1188 | 50 | 1000 | 0 | 119 | 75-125 | 1142 | 3.95 | 30 | | |
| Bromoform | 874.5 | 50 | 1000 | 0 | 87.4 | 60-125 | 853.5 | 2.43 | 30 | | |
| Bromomethane | 6106 | 50 | 1000 | 0 | 611 | 30-185 | 6142 | 0.588 | 30 | SE | |
| Carbon disulfide | 1322 | 50 | 1000 | 0 | 132 | 60-165 | 1294 | 2.06 | 30 | | |
| Carbon tetrachloride | 1277 | 50 | 1000 | 0 | 128 | 65-140 | 1224 | 4.24 | 30 | | |
| Chlorobenzene | 1296 | 50 | 1000 | 280 | 102 | 80-120 | 1268 | 2.15 | 30 | | |
| Chloroethane | 1202 | 50 | 1000 | 0 | 120 | 31-172 | 1218 | 1.32 | 30 | | |
| Chloroform | 1230 | 50 | 1000 | 0 | 123 | 66-135 | 1196 | 2.72 | 30 | | |
| Chloromethane | 917 | 50 | 1000 | 0 | 91.7 | 46-148 | 902.5 | 1.59 | 30 | | |
| cis-1,2-Dichloroethene | 1188 | 50 | 1000 | 0 | 119 | 75-134 | 1145 | 3.69 | 30 | | |
| cis-1,3-Dichloropropene | 1046 | 50 | 1000 | 0 | 105 | 70-130 | 990 | 5.45 | 30 | | |
| Dibromochloromethane | 964 | 50 | 1000 | 0 | 96.4 | 60-115 | 963.5 | 0.0519 | 30 | | |
| Dichlorodifluoromethane | 1460 | 50 | 1000 | 0 | 146 | 20-120 | 1473 | 0.921 | 30 | S | |
| Ethylbenzene | 1032 | 50 | 1000 | 0 | 103 | 76-123 | 1004 | 2.75 | 30 | | |
| Isopropylbenzene | 1108 | 50 | 1000 | 0 | 111 | 80-127 | 1080 | 2.61 | 30 | | |
| Methyl tert-butyl ether | 1088 | 50 | 1000 | 0 | 109 | 68-129 | 1082 | 0.645 | 30 | | |
| Methylene chloride | 1141 | 250 | 1000 | 0 | 114 | 72-125 | 1119 | 1.95 | 30 | | |
| Styrene | 1108 | 50 | 1000 | 0 | 111 | 79-117 | 1074 | 3.16 | 30 | | |
| Tetrachloroethene | 1146 | 50 | 1000 | 0 | 115 | 68-166 | 1124 | 2.03 | 30 | | |
| Toluene | 990.5 | 50 | 1000 | 0 | 99 | 76-125 | 960 | 3.13 | 30 | | |
| trans-1,2-Dichloroethene | 1226 | 50 | 1000 | 0 | 123 | 80-140 | 1181 | 3.78 | 30 | | |
| trans-1,3-Dichloropropene | 818 | 50 | 1000 | 0 | 81.8 | 56-132 | 800 | 2.22 | 30 | | |
| Trichloroethene | 1218 | 50 | 1000 | 0 | 122 | 77-125 | 1204 | 1.2 | 30 | | |
| Trichlorofluoromethane | 1054 | 50 | 1000 | 0 | 105 | 60-140 | 1016 | 3.67 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Golder Associates Inc.
Work Order: 20111402
Project: Golder (Phase II Eaton Shenandoah)

QC BATCH REPORT

| Batch ID: R303160A | Instrument ID VMS10 | Method: SW8260C | | | | | | | | |
|------------------------------------|----------------------------|------------------------|-------------|----------|-------------|---------------|-------------|--------------|-----------|--|
| Vinyl chloride | 1216 | 50 | 1000 | 0 | 122 | 50-136 | 1234 | 1.55 | 30 | |
| Xylenes, Total | 3072 | 150 | 3000 | 0 | 102 | 76-127 | 2958 | 3.76 | 30 | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>898</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>89.8</i> | <i>75-120</i> | <i>913</i> | <i>1.66</i> | <i>30</i> | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>990.5</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>99</i> | <i>80-110</i> | <i>988</i> | <i>0.253</i> | <i>30</i> | |
| <i>Surr: Dibromofluoromethane</i> | <i>1026</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>103</i> | <i>85-115</i> | <i>1048</i> | <i>2.12</i> | <i>30</i> | |
| <i>Surr: Toluene-d8</i> | <i>887.5</i> | <i>0</i> | <i>1000</i> | <i>0</i> | <i>88.8</i> | <i>85-110</i> | <i>903</i> | <i>1.73</i> | <i>30</i> | |

The following samples were analyzed in this batch:

| | |
|--------------|--------------|
| 20111402-08A | 20111402-09A |
|--------------|--------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Sample Receipt Checklist

Client Name: **GOLDER-MO**

Date/Time Received: **14-Nov-20 11:00**

Work Order: **20111402**

Received by: **MJG**

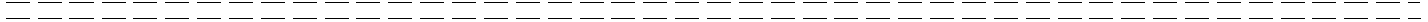
Checklist completed by Matthew Gaylord 16-Nov-20
eSignature Date

Reviewed by: Gary Byar 16-Nov-20
eSignature Date

Matrices: Water
Carrier name: FedEx

| | | | |
|---|---|--|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample(s) received on ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>4.0/4.0C</u> | | <u>IR1</u> |
| Cooler(s)/Kit(s): | <input type="text"/> | | |
| Date/Time sample(s) sent to storage: | <u>11/16/2020 10:17:07 AM</u> | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted by: | <input type="text"/> | | |

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Client: Golder Associates Inc.
Project: Golder (Phase II Eaton Shenandoah)
WorkOrder: 20111402

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|----------------------|
| mg/L | Milligrams per Liter |



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 50607

Houston, TX
+1 281 530 5656

Spring City, PA
+1 610 948 4903

South Charleston, WV
+1 304 356 3168

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

York, PA
+1 717 505 5280

ALS Project Manager: _____ ALS Work Order #: 2011402

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|----------------------|--|---------------------|--|---------------------------------------|-------------------------------------|
| Purchase Order | <u>20394143</u> | Project Name | <u>Phase II Eaton Shenandoah</u> | A | <u>SVOC</u> |
| Work Order | | Project Number | | B | <u>Metals by ICP-MS (dissolved)</u> |
| Company Name | <u>Golder Associates Inc.</u> | Bill To Company | <u>Golder Associates Inc</u> | C | <u>VOC</u> |
| Send Report To | <u>Anne Faeth - Boyd@Golder.com</u> | Invoice Attn | | D | |
| Address | <u>13515 Barrett Parkway Drive Suite 260</u> | Address | <u>13515 Barrett Parkway Drive Suite 260</u> | E | |
| | | | | F | |
| City/State/Zip | <u>Baltimore / MD / 21032</u> | City/State/Zip | <u>Baltimore / MD / 21032</u> | G | |
| Phone | <u>314-984-8800</u> | Phone | <u>314-984-8800</u> | H | |
| Fax | | Fax | | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|----------------------|-----------------|---------------|--------------|------------|-----------|----------|----------|----------|---|---|---|---|---|---|---|------|
| 1 | <u>2020-BH-01 6W</u> | <u>11/12/20</u> | <u>1810</u> | <u>Water</u> | <u>1,2</u> | <u>6</u> | <u>X</u> | <u>X</u> | <u>X</u> | | | | | | | | |
| 2 | <u>2020-BH-02 6W</u> | <u>11/13/20</u> | <u>445215</u> | | | | | | | | | | | | | | |
| 3 | <u>2020-BH-03 6W</u> | <u>11/12/20</u> | <u>1115</u> | | | | | | | | | | | | | | |
| 4 | <u>2020-BH-04 6W</u> | <u>11/12/20</u> | <u>1340</u> | | | | | | | | | | | | | | |
| 5 | <u>2020-BH-05 6W</u> | <u>11/13/20</u> | <u>0835</u> | | | | | | | | | | | | | | |
| 6 | <u>2020-BH-06 6W</u> | <u>11/12/20</u> | <u>1405</u> | | | | | | | | | | | | | | |
| 7 | <u>2020-BH-07 6W</u> | <u>11/13/20</u> | <u>0730</u> | | | | | | | | | | | | | | |
| 8 | <u>2020-BH-08 6W</u> | <u>11/13/20</u> | <u>1145</u> | | | <u>X5</u> | | | | | | | | | | | |
| 9 | <u>2020-BH-09 6W</u> | <u>11/12/20</u> | <u>1840</u> | | | <u>X6</u> | | | | | | | | | | | |
| 10 | <u>Try Blank</u> | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign _____ Shipment Method Fedex Turnaround Time in Business Days (BD) 10 BD 5 BD 3 BD 2 BD 1 BD Other _____ Results Due Date: _____

| | | | | |
|--|-----------------------|--------------------|--|---|
| Relinquished by: <u>Eric Schneider</u> | Date: <u>11/13/20</u> | Time: <u>1700</u> | Received by: _____ | Notes: <u>All Metals samples field filtered</u> |
| Relinquished by: <u>[Signature]</u> | Date: <u>11/13/20</u> | Time: <u>1700</u> | Received by (Laboratory): <u>[Signature]</u> | Cooler ID: _____ |
| Logged by (Laboratory): <u>MTG</u> | Date: <u>11/16/20</u> | Time: <u>10:16</u> | Checked by (Laboratory): <u>[Signature]</u> | Cooler Temp: <u>4.00C</u> |
| Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035 | | | | QC Package: (Check One Box Below) |
| | | | | <input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist |
| | | | | <input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> TRRP Level IV |
| | | | | <input type="checkbox"/> Level IV SW846/CLP |
| | | | | <input type="checkbox"/> Other _____ |

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

| Blanks | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were analytes detected in the method blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were analytes detected in the field blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were analytes detected in the equipment blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| d) Were analytes detected in the trip blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Laboratory Control Sample (LCS) | YES | NO | NA | COMMENTS |
|--|-------------------------------------|--------------------------|--------------------------|-----------------|
| a) Was a LCS analyzed once per SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were the proper analytes included in the LCS? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| c) Was the LCS accuracy criteria met? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

| Duplicates | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were field duplicates collected (note original and duplicate sample names)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were field dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were lab duplicates analyzed (note original and duplicate samples)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| d) Were lab dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Blind Standards | YES | NO | NA | COMMENTS |
|---|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Was a blind standard used (indicate name, analytes included and concentrations)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Was the %D within control limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Matrix Spike/Matrix Spike Duplicate (MS/MSD) | YES | NO | NA | COMMENTS |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Was MS accuracy criteria met? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | See Notes |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| b) Was MSD accuracy criteria met? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were MS/MSD precision criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes |

Comments/Notes:

20111406-02AMS: MS % recovery high for Mercury.

20111406-02AMSD: RPD exceeds limit (30%) for Mercury.

MS/MSD performed on unrelated sample, no qualification necessary.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates
 Project Name: Eaton Shenandoah Deact and PH2 IA
 Reviewer: A. Muehlfarth

Project Manager: A. Faeth-Boyd
 Project Number: 20394143
 Validation Date: 12/4/2020

Laboratory: ALS Environmental SDG #: 20111402

Analytical Method (type and no.): SVOCs (SW846 8270D), VOCs (SW8260C)

Matrix: Air Soil/Sed. Water Waste

Sample Names 2020-BH-01-GW, 2020-BH-02-GW, 2020-BH-03-GW, 2020-BH-04-GW, 2020-BH-05-GW, 2020-BH-06-GW, 2020-BH-07-GW, 2020-BH-08-GW, 2020-BH-09-GW, Trip Blank

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

| Field Information | YES | NO | NA | COMMENTS |
|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| a) Sampling dates noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>11/12/2020 - 11/13/2020</u> |
| b) Sampling team indicated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>EMS</u> |
| c) Sample location noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| d) Sample depth indicated (Soils)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u></u> |
| e) Sample type indicated (grab/composite)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>Grab</u> |
| f) Field QC noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>Trip Blank</u> |
| g) Field parameters collected (note types)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>pH, Spec. Cond., Turb, Temp, DO, ORP</u> |
| h) Field Calibration within control limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| i) Notations of unacceptable field conditions/performances from field logs or field notes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| j) Does the laboratory narrative indicate deficiencies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |

Note Deficiencies: Reduced volume due to limited sample quantity noted for SVOC samples 2020-BH-02-GW, 2020-BH-05-GW, 2020-BH-07-GW, 2020-BH-08-GW.

| Chain-of-Custody (COC) | YES | NO | NA | COMMENTS |
|---|-------------------------------------|--------------------------|--------------------------|----------|
| a) Was the COC properly completed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| b) Was the COC signed by both field and laboratory personnel? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| c) Were samples received in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |

| General (reference QAPP or Method) | YES | NO | NA | COMMENTS |
|---|-------------------------------------|-------------------------------------|--------------------------|------------------|
| a) Were hold times met for sample pretreatment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| b) Were hold times met for sample analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| c) Were the correct preservatives used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| d) Was the correct method used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| e) Were appropriate reporting limits achieved? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| f) Were any sample dilutions noted? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u></u> |
| g) Were any matrix problems noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>See Notes</u> |

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

| Blanks | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were analytes detected in the method blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were analytes detected in the field blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were analytes detected in the equipment blank(s)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| d) Were analytes detected in the trip blank(s)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |

| Laboratory Control Sample (LCS) | YES | NO | NA | COMMENTS |
|---|-------------------------------------|-------------------------------------|--------------------------|--------------------|
| a) Was a LCS analyzed once per SDG? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were the proper compounds included in the LCS? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| c) Was the LCS accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |

| Duplicates | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Were field duplicates collected (note original and duplicate sample names)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Were field dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were lab duplicates analyzed (note original and duplicate samples)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| d) Were lab dup. precision criteria met (note RPD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Blind Standards | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|-----------------|
| a) Was a blind standard used (indicate name, compounds included and concentrations)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| b) Was the %D within control limits? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

| Matrix Spike/Matrix Spike Duplicate (MS/MSD) | YES | NO | NA | COMMENTS |
|--|--------------------------|-------------------------------------|-------------------------------------|--------------------|
| a) Was MS accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| b) Was MSD accuracy criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| Recovery could not be calculated since sample contained high concentration of analyte? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| c) Were MS/MSD precision criteria met? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |

| Surrogate Spikes | YES | NO | NA | COMMENTS |
|---|--------------------------|-------------------------------------|-------------------------------------|--------------------|
| a) Were surrogate recoveries within control limits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Notes _____ |
| b) Were surrogate recoveries not calculated due to dilutions? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

Comments/Notes:

LCS Qualifications:

Batch 167999: LCS % recovery high for Bis(2-chloroethyl)ether, associated with samples -01, 03, -04, -06, and -09. Sample results non-detect, no qualification necessary.

Batch R303043b: LCS % recovery high for Chloroethane, Dichlorodifluoromethane, Styrene, associated with samples -01 through -07, -10.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Comments/Notes (continued):

(LCS continued)

(Batch R303043b): Sample results non-detect, no qualification necessary.

Batch R303160A: LCS % recovery high for Bromomethane, Dichlorodifluoromethane, associated with samples -08 and -09.

Sample results non-detect, no qualification necessary.

MS/MSD qualification:

20111358-03B MS: MS % recovery high for 2-Methylnaphthalene, 4-Nitrophenol, Bis(2-chloroethyl)ether, Fluoranthene, Pentachlorophenol; MS % recovery low for Dibenzofuran, Fluorene, Naphthalene.

20111358-03B MSD: MSD % recovery low high for Bis(2-chloroethyl)ether; MSD % recovery low for 1,1'-Biphenyl, Dibenzofuran, Fluorene, Naphthalene; RPD exceeds limit (30%) for Hexachlorocyclopentadiene.

MS/MSD performed on unrelated sample, no qualification necessary.

20111020-01A MS: MS % recovery high for 4-Methyl-2-pentanone, Bromomethane, Chloroethane, Dichlorodifluoromethane, Styrene.

20111020-01A MSD: MSD % recovery high for 4-Methyl-2-pentanone, Bromomethane, Chloroethane, Dichlorodifluoromethane, Styrene; RPD exceeds limit (30%) for Bromomethane.

MS/MSD performed on unrelated sample, no qualification necessary.

20111134-31A MS: MS % recovery high for Bromomethane, Dichlorodifluoromethane.

20111134-31A MSD: MSD % recovery high for Bromomethane, Dichlorodifluoromethane.

MS/MSD performed on unrelated sample, no qualification necessary.

Surrogates:

2020-BH-08-GW: % recovery high for 2,4,6-Tribromophenol, acidic compounds associated with this surrogate are non-detect, no qualification necessary.

